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**Department of Defense
Fiscal Year (FY) 2019 Budget Estimates**

February 2018



Navy

Justification Book Volume 2 of 4

Aircraft Procurement, Navy

Budget Activity 05

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The estimated cost for this report for the Department of the Navy (DON) is \$85,947.

The estimated total cost for supporting the DON budget justification material is approximately \$1,643,653 for the 2018 fiscal year. This includes \$79,753 in supplies and \$1,563,900 in labor.

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Department of Defense Appropriations Act, 2019

Aircraft Procurement, Navy

For construction, procurement, production, modification, and modernization of aircraft, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment; expansion of public and private plants, including the land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, \$19,121,918,000, to remain available for obligation until September 30, 2021.

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Department of the Navy
 FY 2019 President's Budget
 Exhibit P-1 FY 2019 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Appropriation -----	FY 2017 (Base + OCO) -----	FY 2018 PB Request with CR Adj Base -----	FY 2018 Total PB Requests* with CR Adj Base -----	FY 2018 PB Request with CR Adj OCO -----
Aircraft Procurement, Navy	16,834,587	16,119,051	16,019,051	682,187
Total Department of the Navy	16,834,587	16,119,051	16,019,051	682,187

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Department of the Navy
 FY 2019 President's Budget
 Exhibit P-1 FY 2019 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Appropriation -----	FY 2018 Total PB Requests+ with CR Adj OCO -----	FY 2018 Emergency Requests** Emergency -----	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req Emergency -----
Aircraft Procurement, Navy	682,187			
Total Department of the Navy	682,187			

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation -----	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** -----	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency -----
Aircraft Procurement, Navy	16,701,238		16,701,238
Total Department of the Navy	16,701,238		16,701,238

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
Aircraft Procurement, Navy	19,041,799	80,119	19,121,918
Total Department of the Navy	19,041,799	80,119	19,121,918

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2017 (Base + OCO) -----	FY 2018 PB Request with CR Adj Base -----	FY 2018 Total PB Requests* with CR Adj Base -----	FY 2018 PB Request with CR Adj OCO -----
01. Combat Aircraft	10,882,360	9,271,650	9,271,650	
02. Airlift Aircraft	207,000			
03. Trainer Aircraft	5,849			
04. Other Aircraft	820,215	784,818	784,818	3,900
05. Modification of Aircraft	2,741,950	2,813,635	2,713,635	134,087
06. Aircraft Spares and Repair Parts	1,712,571	1,681,914	1,681,914	18,850
07. Aircraft Support Equip & Facilities	464,642	504,218	504,218	463
20. Undistributed		1,062,816	1,062,816	524,887
Total Aircraft Procurement, Navy	16,834,587	16,119,051	16,019,051	682,187

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2018 Total PB Requests+ with CR Adj OCO -----	FY 2018 Emergency Requests** Emergency -----	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req Emergency -----
01. Combat Aircraft				
02. Airlift Aircraft				
03. Trainer Aircraft				
04. Other Aircraft	3,900			
05. Modification of Aircraft	134,087			
06. Aircraft Spares and Repair Parts	18,850			
07. Aircraft Support Equip & Facilities	463			
20. Undistributed	524,887			
Total Aircraft Procurement, Navy	682,187			

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** -----	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency -----
01. Combat Aircraft	9,271,650		9,271,650
02. Airlift Aircraft			
03. Trainer Aircraft			
04. Other Aircraft	788,718		788,718
05. Modification of Aircraft	2,847,722		2,847,722
06. Aircraft Spares and Repair Parts	1,700,764		1,700,764
07. Aircraft Support Equip & Facilities	504,681		504,681
20. Undistributed	1,587,703		1,587,703
Total Aircraft Procurement, Navy	16,701,238		16,701,238

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Department of the Navy
 FY 2019 President's Budget
 Exhibit P-1 FY 2019 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
01. Combat Aircraft	11,728,769		11,728,769
02. Airlift Aircraft	206,000		206,000
03. Trainer Aircraft			
04. Other Aircraft	1,616,353	35,065	1,651,418
05. Modification of Aircraft	3,156,663	45,054	3,201,717
06. Aircraft Spares and Repair Parts	1,792,920		1,792,920
07. Aircraft Support Equip & Facilities	541,094		541,094
20. Undistributed			
Total Aircraft Procurement, Navy	19,041,799	80,119	19,121,918

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj		FY 2018 Total PB Requests* with CR Adj		FY 2018 PB Request with CR Adj		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											
Combat Aircraft											
1	F/A-18E/F (Fighter) Hornet	A	14	(1,146,912)	14	(1,253,120)	14	(1,253,120)			U
	Less: Advance Procurement (PY)					(-52,974)		(-52,974)			U
				-----		-----		-----		-----	
				1,146,912		1,200,146		1,200,146			
2	F/A-18E/F (Fighter) Hornet										
	Advance Procurement (CY)					52,971		52,971			U
	C (FY 2018 for FY 2019) (M)					(52,971)		(52,971)			
	C (FY 2019 for FY 2020) (M)										
3	Joint Strike Fighter CV	A	8	(1,360,880)	4	(663,232)	4	(663,232)			U
	Less: Advance Procurement (PY)					(-48,630)		(-80,908)			U
				-----		-----		-----		-----	
				1,312,250		582,324		582,324			
4	Joint Strike Fighter CV										
	Advance Procurement (CY)			80,908		263,112		263,112			U
	C (FY 2017 for FY 2018) (M)			(80,908)							
	C (FY 2018 for FY 2019) (M)					(196,411)		(196,411)			
	C (FY 2018 for FY 2020) (M)					(66,701)		(66,701)			
	C (FY 2019 for FY 2020) (M)										
5	JSF STOVL		18	(2,504,927)	20	(2,631,787)	20	(2,631,787)			U
	Less: Advance Procurement (PY)					(-203,060)		(-233,648)			U
				-----		-----		-----		-----	
				2,301,867		2,398,139		2,398,139			
6	JSF STOVL										
	Advance Procurement (CY)			233,648		413,450		413,450			U
	C (FY 2017 for FY 2018) (M)			(233,648)							
	C (FY 2018 for FY 2019) (M)					(322,264)		(322,264)			
	C (FY 2018 for FY 2020) (M)					(91,186)		(91,186)			
	C (FY 2019 for FY 2020) (M)										

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Department of the Navy
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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											

Combat Aircraft											
1	F/A-18E/F (Fighter) Hornet	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
2	F/A-18E/F (Fighter) Hornet										U
	Advance Procurement (CY)										U
	C (FY 2018 for FY 2019) (M)										
	C (FY 2019 for FY 2020) (M)										
3	Joint Strike Fighter CV	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
4	Joint Strike Fighter CV										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2018 for FY 2020) (M)										
	C (FY 2019 for FY 2020) (M)										
5	JSF STOVL										U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
6	JSF STOVL										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2018 for FY 2020) (M)										
	C (FY 2019 for FY 2020) (M)										

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c -	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
Budget Activity 01: Combat Aircraft										

Combat Aircraft										
1	F/A-18E/F (Fighter) Hornet	A	14	(1,253,120)			14	(1,253,120)	U	
	Less: Advance Procurement (PY)			(-52,974)				(-52,974)	U	
				-----		-----		-----		
				1,200,146				1,200,146		
2	F/A-18E/F (Fighter) Hornet									
	Advance Procurement (CY)			52,971				52,971	U	
	C (FY 2018 for FY 2019) (M)			(52,971)				(52,971)		
	C (FY 2019 for FY 2020) (M)									
3	Joint Strike Fighter CV	A	4	(663,232)			4	(663,232)	U	
	Less: Advance Procurement (PY)			(-80,908)				(-80,908)	U	
				-----		-----		-----		
				582,324				582,324		
4	Joint Strike Fighter CV									
	Advance Procurement (CY)			263,112				263,112	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(196,411)				(196,411)		
	C (FY 2018 for FY 2020) (M)			(66,701)				(66,701)		
	C (FY 2019 for FY 2020) (M)									
5	JSF STOVL		20	(2,631,787)			20	(2,631,787)	U	
	Less: Advance Procurement (PY)			(-233,648)				(-233,648)	U	
				-----		-----		-----		
				2,398,139				2,398,139		
6	JSF STOVL									
	Advance Procurement (CY)			413,450				413,450	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(322,264)				(322,264)		
	C (FY 2018 for FY 2020) (M)			(91,186)				(91,186)		
	C (FY 2019 for FY 2020) (M)									

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Department of the Navy
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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	FY 2019 Base Cost	FY 2019 OCO Quantity	FY 2019 OCO Cost	FY 2019 Total Quantity	FY 2019 Total Cost	S e c
Budget Activity 01: Combat Aircraft									
Combat Aircraft									
1	F/A-18E/F (Fighter) Hornet	A	24	(1,990,524)			24	(1,990,524)	U
	Less: Advance Procurement (PY)			(-52,971)				(-52,971)	U
				1,937,553				1,937,553	
2	F/A-18E/F (Fighter) Hornet			58,799				58,799	U
	Advance Procurement (CY)			58,799				58,799	U
	C (FY 2018 for FY 2019) (M)			(58,799)				(58,799)	
	C (FY 2019 for FY 2020) (M)			(58,799)				(58,799)	
3	Joint Strike Fighter CV	A	9	(1,341,369)			9	(1,341,369)	U
	Less: Advance Procurement (PY)			(-196,411)				(-196,411)	U
				1,144,958				1,144,958	
4	Joint Strike Fighter CV			140,010				140,010	U
	Advance Procurement (CY)			140,010				140,010	U
	C (FY 2017 for FY 2018) (M)			(140,010)				(140,010)	
	C (FY 2018 for FY 2019) (M)			(140,010)				(140,010)	
	C (FY 2018 for FY 2020) (M)			(140,010)				(140,010)	
	C (FY 2019 for FY 2020) (M)			(140,010)				(140,010)	
5	JSF STOVL		20	(2,635,111)			20	(2,635,111)	U
	Less: Advance Procurement (PY)			(-322,264)				(-322,264)	U
				2,312,847				2,312,847	
6	JSF STOVL			228,492				228,492	U
	Advance Procurement (CY)			228,492				228,492	U
	C (FY 2017 for FY 2018) (M)			(228,492)				(228,492)	
	C (FY 2018 for FY 2019) (M)			(228,492)				(228,492)	
	C (FY 2018 for FY 2020) (M)			(228,492)				(228,492)	
	C (FY 2019 for FY 2020) (M)			(228,492)				(228,492)	

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c				
7	CH-53K (Heavy Lift)	A	2	(385,915)	4	(655,970)	4	(655,970)			U
	Less: Advance Procurement (PY)			(-41,300)		(-88,365)		(-88,365)			U
				-----		-----		-----			
				344,615		567,605		567,605			
8	CH-53K (Heavy Lift)										
	Advance Procurement (CY)			71,869		147,046		147,046			U
	C (FY 2017 for FY 2018) (M)			(71,869)							
	C (FY 2018 for FY 2019) (M)					(147,046)		(147,046)			
	C (FY 2019 for FY 2020) (M)										
9	V-22 (Medium Lift)		19	(1,534,476)	6	(697,078)	6	(697,078)			U
	Less: Advance Procurement (PY)			(-56,923)		(-19,674)		(-19,674)			U
				-----		-----		-----			
				1,477,553		677,404		677,404			
10	V-22 (Medium Lift)										
	Advance Procurement (CY)			19,674		27,422		27,422			U
	C (FY 2017 for FY 2018) (M)			(19,674)							
	C (FY 2018 for FY 2019) (M)					(27,422)		(27,422)			
	C (FY 2019 for FY 2020) (M)										
11	H-1 Upgrades (UH-1Y/AH-1Z)	A	26	(861,946)	22	(735,661)	22	(735,661)			U
	Less: Advance Procurement (PY)			(-56,168)		(-57,232)		(-57,232)			U
				-----		-----		-----			
				805,778		678,429		678,429			
12	H-1 Upgrades (UH-1Y/AH-1Z)										
	Advance Procurement (CY)			49,208		42,082		42,082			U
	C (FY 2017 for FY 2018) (M)			(49,208)							
	C (FY 2018 for FY 2019) (M)					(42,082)		(42,082)			
13	MH-60R (MYP)	A		53,175							U

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
7	CH-53K (Heavy Lift)	A									U
	Less: Advance Procurement (PY)										U
8	CH-53K (Heavy Lift)										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										U
	C (FY 2018 for FY 2019) (M)										U
	C (FY 2019 for FY 2020) (M)										U
9	V-22 (Medium Lift)										U
	Less: Advance Procurement (PY)										U
10	V-22 (Medium Lift)										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										U
	C (FY 2018 for FY 2019) (M)										U
	C (FY 2019 for FY 2020) (M)										U
11	H-1 Upgrades (UH-1Y/AH-1Z)	A									U
	Less: Advance Procurement (PY)										U
12	H-1 Upgrades (UH-1Y/AH-1Z)										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										U
	C (FY 2018 for FY 2019) (M)										U
13	MH-60R (MYP)	A									U

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Department of the Navy
FY 2019 President's Budget
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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
7	CH-53K (Heavy Lift)	A	4	(655,970)			4	(655,970)	U
	Less: Advance Procurement (PY)			(-88,365)				(-88,365)	U
				567,605				567,605	
8	CH-53K (Heavy Lift)								
	Advance Procurement (CY)			147,046				147,046	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)			(147,046)				(147,046)	
	C (FY 2019 for FY 2020) (M)								
9	V-22 (Medium Lift)		6	(697,078)			6	(697,078)	U
	Less: Advance Procurement (PY)			(-19,674)				(-19,674)	U
				677,404				677,404	
10	V-22 (Medium Lift)								
	Advance Procurement (CY)			27,422				27,422	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)			(27,422)				(27,422)	
	C (FY 2019 for FY 2020) (M)								
11	H-1 Upgrades (UH-1Y/AH-1Z)	A	22	(735,661)			22	(735,661)	U
	Less: Advance Procurement (PY)			(-57,232)				(-57,232)	U
				678,429				678,429	
12	H-1 Upgrades (UH-1Y/AH-1Z)								
	Advance Procurement (CY)			42,082				42,082	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)			(42,082)				(42,082)	
13	MH-60R (MYP)	A							U

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
7	CH-53K (Heavy Lift)	A	8	(1,260,850)			8	(1,260,850)	U
	Less: Advance Procurement (PY)			(-147,046)				(-147,046)	U
				-----		-----		-----	
				1,113,804				1,113,804	
8	CH-53K (Heavy Lift)								
	Advance Procurement (CY)			161,079				161,079	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(161,079)				(161,079)	
9	V-22 (Medium Lift)		7	(833,759)			7	(833,759)	U
	Less: Advance Procurement (PY)			(-27,422)				(-27,422)	U
				-----		-----		-----	
				806,337				806,337	
10	V-22 (Medium Lift)								
	Advance Procurement (CY)			36,955				36,955	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(36,955)				(36,955)	
11	H-1 Upgrades (UH-1Y/AH-1Z)	A	25	(862,837)			25	(862,837)	U
	Less: Advance Procurement (PY)			(-42,082)				(-42,082)	U
				-----		-----		-----	
				820,755				820,755	
12	H-1 Upgrades (UH-1Y/AH-1Z)								
	Advance Procurement (CY)								U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
13	MH-60R (MYP)	A							U

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(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c
14	P-8A Poseidon	A	11 (2,063,245)	7 (1,376,124)	7 (1,376,124)		U
	Less: Advance Procurement (PY)		(-243,007)	(-130,873)	(-130,873)		U
			-----	-----	-----	-----	
			1,820,238	1,245,251	1,245,251		
15	P-8A Poseidon						
	Advance Procurement (CY)		123,140	140,333	140,333		U
	C (FY 2017 for FY 2018) (M)		(123,140)				
	C (FY 2018 for FY 2019) (M)			(140,333)	(140,333)		
	C (FY 2019 for FY 2020) (M)						
16	E-2D Adv Hawkeye	A	6 (1,154,569)	5 (1,004,913)	5 (1,004,913)		U
	Less: Advance Procurement (PY)		(-238,086)	(-271,003)	(-271,003)		U
			-----	-----	-----	-----	
			916,483	733,910	733,910		
17	E-2D Adv Hawkeye						
	Advance Procurement (CY)		125,042	102,026	102,026		U
	C (FY 2017 for FY 2018) (M)		(125,042)				
	C (FY 2018 for FY 2019) (M)			(102,026)	(102,026)		
	C (FY 2019 for FY 2020) (M)						
	C (FY 2019 for FY 2021) (M)						
	C (FY 2019 for FY 2022) (M)						
	C (FY 2019 for FY 2023) (M)						
			-----	-----	-----	-----	
	Total Combat Aircraft		10,882,360	9,271,650	9,271,650		
	Budget Activity 02: Airlift Aircraft						

	Airlift Aircraft						
18	C-40A	A	2 207,000				U
			-----	-----	-----	-----	
	Total Airlift Aircraft		207,000				

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	P-8A Poseidon	A									U
	Less: Advance Procurement (PY)										U
15	P-8A Poseidon										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2019 for FY 2020) (M)										
16	E-2D Adv Hawkeye	A									U
	Less: Advance Procurement (PY)										U
17	E-2D Adv Hawkeye										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2019 for FY 2020) (M)										
	C (FY 2019 for FY 2021) (M)										
	C (FY 2019 for FY 2022) (M)										
	C (FY 2019 for FY 2023) (M)										
Total Combat Aircraft											
Budget Activity 02: Airlift Aircraft											

Airlift Aircraft											
18	C-40A	A									U
Total Airlift Aircraft											

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	P-8A Poseidon	A	7	(1,376,124)			7	(1,376,124)	U
	Less: Advance Procurement (PY)			(-130,873)				(-130,873)	U
				1,245,251				1,245,251	
15	P-8A Poseidon								
	Advance Procurement (CY)			140,333				140,333	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)			(140,333)				(140,333)	
	C (FY 2019 for FY 2020) (M)								
16	E-2D Adv Hawkeye	A	5	(1,004,913)			5	(1,004,913)	U
	Less: Advance Procurement (PY)			(-271,003)				(-271,003)	U
				733,910				733,910	
17	E-2D Adv Hawkeye								
	Advance Procurement (CY)			102,026				102,026	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)			(102,026)				(102,026)	
	C (FY 2019 for FY 2020) (M)								
	C (FY 2019 for FY 2021) (M)								
	C (FY 2019 for FY 2022) (M)								
	C (FY 2019 for FY 2023) (M)								
	Total Combat Aircraft			9,271,650				9,271,650	
Budget Activity 02: Airlift Aircraft									
Airlift Aircraft									
18	C-40A	A							U
Total Airlift Aircraft									

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
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14	P-8A Poseidon	A	10	(1,950,100)			10	(1,950,100)	U
	Less: Advance Procurement (PY)			(-146,347)				(-146,347)	U
				-----		-----		-----	
				1,803,753				1,803,753	
15	P-8A Poseidon								
	Advance Procurement (CY)			180,000				180,000	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(180,000)				(180,000)	
16	E-2D Adv Hawkeye	A	4	(844,719)			4	(844,719)	U
	Less: Advance Procurement (PY)			(-102,026)				(-102,026)	U
				-----		-----		-----	
				742,693				742,693	
17	E-2D Adv Hawkeye								
	Advance Procurement (CY)			240,734				240,734	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(126,128)				(126,128)	
	C (FY 2019 for FY 2021) (M)			(38,202)				(38,202)	
	C (FY 2019 for FY 2022) (M)			(38,202)				(38,202)	
	C (FY 2019 for FY 2023) (M)			(38,202)				(38,202)	
				-----		-----		-----	
	Total Combat Aircraft			11,728,769				11,728,769	
Budget Activity 02: Airlift Aircraft									

Airlift Aircraft									
18	C-40A	A	2	206,000			2	206,000	U
				-----		-----		-----	
	Total Airlift Aircraft			206,000				206,000	

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c -
Budget Activity 03: Trainer Aircraft							

Trainer Aircraft							
19	JPATS	A	5,849				U
			-----	-----	-----	-----	
Total Trainer Aircraft			5,849				
Budget Activity 04: Other Aircraft							

Other Aircraft							
20	KC-130J	A	2 (151,333)	2 (158,425)	2 (158,425)		U
	Less: Advance Procurement (PY)		(-32,451)	(-28,848)	(-28,848)		U
			-----	-----	-----	-----	
			118,882	129,577	129,577		
21	KC-130J						
	Advance Procurement (CY)		24,848	25,497	25,497		U
	C (FY 2017 for FY 2018) (M)		(24,848)				
	C (FY 2018 for FY 2019) (M)			(25,497)	(25,497)		
	C (FY 2019 for FY 2020) (M)						
	C (FY 2019 for FY 2021) (M)						
	C (FY 2019 for FY 2022) (M)						
	C (FY 2019 for FY 2023) (M)						
22	MQ-4 Triton	A	2 (498,819)	3 (577,778)	3 (577,778)		U
	Less: Advance Procurement (PY)		(-54,577)	(-55,652)	(-55,652)		U
			-----	-----	-----	-----	
			444,242	522,126	522,126		
23	MQ-4 Triton						
	Advance Procurement (CY)		55,652	57,266	57,266		U
	C (FY 2017 for FY 2018) (M)		(55,652)				
	C (FY 2018 for FY 2019) (M)			(57,266)	(57,266)		
	C (FY 2019 for FY 2020) (M)						

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Trainer Aircraft											

Trainer Aircraft											
19	JPATS	A									U
			-----		-----		-----		-----		
Total Trainer Aircraft											
Budget Activity 04: Other Aircraft											

Other Aircraft											
20	KC-130J	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
21	KC-130J										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2019 for FY 2020) (M)										
	C (FY 2019 for FY 2021) (M)										
	C (FY 2019 for FY 2022) (M)										
	C (FY 2019 for FY 2023) (M)										
22	MQ-4 Triton	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
23	MQ-4 Triton										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2019 for FY 2020) (M)										

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
Budget Activity 03: Trainer Aircraft										

Trainer Aircraft										
19	JPATS	A							U	
			-----		-----		-----			
Total Trainer Aircraft										
Budget Activity 04: Other Aircraft										

Other Aircraft										
20	KC-130J	A	2	(158,425)			2	(158,425)	U	
	Less: Advance Procurement (PY)			(-28,848)				(-28,848)	U	
				-----				-----		
				129,577				129,577		
21	KC-130J									
	Advance Procurement (CY)			25,497				25,497	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(25,497)				(25,497)		
	C (FY 2019 for FY 2020) (M)									
	C (FY 2019 for FY 2021) (M)									
	C (FY 2019 for FY 2022) (M)									
	C (FY 2019 for FY 2023) (M)									
22	MQ-4 Triton	A	3	(577,778)			3	(577,778)	U	
	Less: Advance Procurement (PY)			(-55,652)				(-55,652)	U	
				-----				-----		
				522,126				522,126		
23	MQ-4 Triton									
	Advance Procurement (CY)			57,266				57,266	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(57,266)				(57,266)		
	C (FY 2019 for FY 2020) (M)									

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
Budget Activity 03: Trainer Aircraft									
Trainer Aircraft									
19	JPATS	A							U
Total Trainer Aircraft									
Budget Activity 04: Other Aircraft									
Other Aircraft									
20	KC-130J	A	2	(185,930)			2	(185,930)	U
	Less: Advance Procurement (PY)			(-25,497)				(-25,497)	U
				160,433				160,433	
21	KC-130J								
	Advance Procurement (CY)			110,013				110,013	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(34,013)				(34,013)	
	C (FY 2019 for FY 2021) (M)			(20,000)				(20,000)	
	C (FY 2019 for FY 2022) (M)			(24,000)				(24,000)	
	C (FY 2019 for FY 2023) (M)			(32,000)				(32,000)	
22	MQ-4 Triton	A	3	(626,009)			3	(626,009)	U
	Less: Advance Procurement (PY)			(-57,266)				(-57,266)	U
				568,743				568,743	
23	MQ-4 Triton								
	Advance Procurement (CY)			58,522				58,522	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(58,522)				(58,522)	

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity	Cost	FY 2018 PB Request with CR Adj Base Quantity	Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity	Cost	FY 2018 PB Request with CR Adj OCO Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
24	MQ-8 UAV	B	5	113,635		49,472		49,472			U
25	STUASL0 UAV		4	62,956		880		880	3,900		U
26	VH-92A Executive Helo										U
	Total Other Aircraft			820,215		784,818		784,818	3,900		

Budget Activity 05: Modification of Aircraft

Modification of Aircraft

27	AEA Systems			50,451		52,960		52,960			U
28	AV-8 Series	A		56,275		43,555		43,555			U
29	Adversary	A		5,191		2,565		2,565			U
30	F-18 Series	A		999,424		1,043,661		943,661			U
31	H-53 Series	A		61,665		38,712		38,712	950		U
32	SH-60 Series	A		122,900		95,333		95,333	15,382		U
33	H-1 Series	A		73,262		101,886		101,886			U
34	EP-3 Series	A		28,186		7,231		7,231	7,220		U
35	P-3 Series	A		2,767		700		700			U
36	E-2 Series	A		26,726		97,563		97,563			U
37	Trainer A/C Series	A		11,271		8,184		8,184			U
38	C-2A	A		18,971		18,673		18,673			U
39	C-130 Series	A		53,667		83,541		83,541			U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO Quantity	Cost	FY 2018 Emergency Requests** Emergency Quantity	Cost	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
24	MQ-8 UAV	B									U
25	STUASL0 UAV			3,900							U
26	VH-92A Executive Helo										U
	Total Other Aircraft			3,900							
Budget Activity 05: Modification of Aircraft											

Modification of Aircraft											
27	AEA Systems										U
28	AV-8 Series	A									U
29	Adversary	A									U
30	F-18 Series	A									U
31	H-53 Series	A		950							U
32	SH-60 Series	A		15,382							U
33	H-1 Series	A									U
34	EP-3 Series	A		7,220							U
35	P-3 Series	A									U
36	E-2 Series	A									U
37	Trainer A/C Series	A									U
38	C-2A	A									U
39	C-130 Series	A									U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity	Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
24	MQ-8 UAV	B		49,472			49,472		U
25	STUASLO UAV			4,780			4,780		U
26	VH-92A Executive Helo								U
	Total Other Aircraft			788,718			788,718		
Budget Activity 05: Modification of Aircraft									

Modification of Aircraft									
27	AEA Systems			52,960			52,960		U
28	AV-8 Series	A		43,555			43,555		U
29	Adversary	A		2,565			2,565		U
30	F-18 Series	A		943,661			943,661		U
31	H-53 Series	A		39,662			39,662		U
32	SH-60 Series	A		110,715			110,715		U
33	H-1 Series	A		101,886			101,886		U
34	EP-3 Series	A		14,451			14,451		U
35	P-3 Series	A		700			700		U
36	E-2 Series	A		97,563			97,563		U
37	Trainer A/C Series	A		8,184			8,184		U
38	C-2A	A		18,673			18,673		U
39	C-130 Series	A		83,541			83,541		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
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24	MQ-8 UAV	B		54,761				54,761	U
25	STUASL0 UAV			14,866		35,065		49,931	U
26	VH-92A Executive Helo		6	649,015			6	649,015	U
				-----		-----		-----	
	Total Other Aircraft			1,616,353		35,065		1,651,418	

Budget Activity 05: Modification of Aircraft

Modification of Aircraft

27	AEA Systems			25,277				25,277	U
28	AV-8 Series	A		58,577				58,577	U
29	Adversary	A		14,606				14,606	U
30	F-18 Series	A		1,213,482				1,213,482	U
31	H-53 Series	A		70,997				70,997	U
32	SH-60 Series	A		130,661		4,858		135,519	U
33	H-1 Series	A		87,143				87,143	U
34	EP-3 Series	A		3,633		5,380		9,013	U
35	P-3 Series	A		803				803	U
36	E-2 Series	A		88,780				88,780	U
37	Trainer A/C Series	A		11,660				11,660	U
38	C-2A	A		11,327				11,327	U
39	C-130 Series	A		79,075				79,075	U

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-----
40	FEWSG	A	618	630	630		U
41	Cargo/Transport A/C Series	A	9,822	10,075	10,075		U
42	E-6 Series	A	194,998	223,508	223,508		U
43	Executive Helicopters Series	A	63,754	38,787	38,787		U
44	Special Project Aircraft	A	31,366	8,304	8,304	19,855	U
45	T-45 Series	A	105,150	148,071	148,071		U
46	Power Plant Changes	A	17,871	19,827	19,827		U
47	JPATS Series	A	10,732	27,007	27,007		U
48	Aviation Life Support Mods	A					U
49	Common ECM Equipment	A	236,822	146,642	146,642	75,530	U
50	Common Avionics Changes	A	144,838	123,507	123,507		U
51	Common Defensive Weapon System	A	4,403	2,317	2,317		U
52	ID Systems	A	42,262	49,524	49,524		U
53	P-8 Series		17,946	18,665	18,665		U
54	MAGTF EW for Aviation	A	20,544	10,111	10,111		U
55	MQ-8 Series		19,003	32,361	32,361		U
56	RQ-7 Series		1,534				U
57	V-22 (Tilt/Rotor ACFT) Osprey	B	249,072	228,321	228,321		U
58	Next Generation Jammer (NGJ)	A					U

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----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
40	FEWSG	A									U
41	Cargo/Transport A/C Series	A									U
42	E-6 Series	A									U
43	Executive Helicopters Series	A									U
44	Special Project Aircraft	A		19,855							U
45	T-45 Series	A									U
46	Power Plant Changes	A									U
47	JPATS Series	A									U
48	Aviation Life Support Mods	A									U
49	Common ECM Equipment	A		75,530							U
50	Common Avionics Changes	A									U
51	Common Defensive Weapon System	A									U
52	ID Systems	A									U
53	P-8 Series										U
54	MAGTF EW for Aviation	A									U
55	MQ-8 Series										U
56	RQ-7 Series										U
57	V-22 (Tilt/Rotor ACFT) Osprey	B									U
58	Next Generation Jammer (NGJ)	A									U

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity	Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
40	FEWSG	A		630			630		U
41	Cargo/Transport A/C Series	A		10,075			10,075		U
42	E-6 Series	A		223,508			223,508		U
43	Executive Helicopters Series	A		38,787			38,787		U
44	Special Project Aircraft	A		28,159			28,159		U
45	T-45 Series	A		148,071			148,071		U
46	Power Plant Changes	A		19,827			19,827		U
47	JPATS Series	A		27,007			27,007		U
48	Aviation Life Support Mods	A							U
49	Common ECM Equipment	A		222,172			222,172		U
50	Common Avionics Changes	A		123,507			123,507		U
51	Common Defensive Weapon System	A		2,317			2,317		U
52	ID Systems	A		49,524			49,524		U
53	P-8 Series			18,665			18,665		U
54	MAGTF EW for Aviation	A		10,111			10,111		U
55	MQ-8 Series			32,361			32,361		U
56	RQ-7 Series								U
57	V-22 (Tilt/Rotor ACFT) Osprey	B		228,321			228,321		U
58	Next Generation Jammer (NGJ)	A							U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
40	FEWSG	A		597				597	U
41	Cargo/Transport A/C Series	A		8,932				8,932	U
42	E-6 Series	A		181,821				181,821	U
43	Executive Helicopters Series	A		23,566				23,566	U
44	Special Project Aircraft	A		7,620		2,165		9,785	U
45	T-45 Series	A		195,475				195,475	U
46	Power Plant Changes	A		21,521				21,521	U
47	JPATS Series	A		27,644				27,644	U
48	Aviation Life Support Mods	A		15,864				15,864	U
49	Common ECM Equipment	A		166,306		9,820		176,126	U
50	Common Avionics Changes	A		117,551				117,551	U
51	Common Defensive Weapon System	A		1,994		3,206		5,200	U
52	ID Systems	A		40,696				40,696	U
53	P-8 Series			71,251				71,251	U
54	MAGTF EW for Aviation	A		11,590				11,590	U
55	MQ-8 Series			37,907				37,907	U
56	RQ-7 Series								U
57	V-22 (Tilt/Rotor ACFT) Osprey	B		214,820				214,820	U
58	Next Generation Jammer (NGJ)	A		952				952	U

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Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c -
59	F-35 STOVL Series	A	24,350	34,963	34,963		U
60	F-35 CV Series	A	21,733	31,689	31,689		U
61	QRC	A	14,376	24,766	24,766	15,150	U
62	MQ-4 Series	A		39,996	39,996		U
63	RQ-21 Series	A					U
Total Modification of Aircraft			2,741,950	2,813,635	2,713,635	134,087	
Budget Activity 06: Aircraft Spares and Repair Parts							

Aircraft Spares and Repair Parts							
64	Spares and Repair Parts	A	1,712,571	1,681,914	1,681,914	18,850	U
Total Aircraft Spares and Repair Parts			1,712,571	1,681,914	1,681,914	18,850	
Budget Activity 07: Aircraft Support Equip & Facilities							

Aircraft Support Equip & Facilities							
65	Common Ground Equipment	A	365,280	388,052	388,052		U
66	Aircraft Industrial Facilities	A	23,718	24,613	24,613	463	U
67	War Consumables	A	36,740	39,614	39,614		U
68	Other Production Charges	A	860	1,463	1,463		U
69	Special Support Equipment	A	36,282	48,500	48,500		U
70	First Destination Transportation	A	1,523	1,976	1,976		U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO Quantity	Cost	FY 2018 Emergency Requests** Emergency Quantity	Cost	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req Emergency Quantity	Cost	S e c -
59	F-35 STOVL Series	A									U
60	F-35 CV Series	A									U
61	QRC	A		15,150							U
62	MQ-4 Series	A									U
63	RQ-21 Series	A									U
Total Modification of Aircraft				134,087							
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
64	Spares and Repair Parts	A		18,850							U
Total Aircraft Spares and Repair Parts				18,850							
Budget Activity 07: Aircraft Support Equip & Facilities											

Aircraft Support Equip & Facilities											
65	Common Ground Equipment	A									U
66	Aircraft Industrial Facilities	A		463							U
67	War Consumables	A									U
68	Other Production Charges	A									U
69	Special Support Equipment	A									U
70	First Destination Transportation	A									U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity	Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity	Cost	S e c
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59	F-35 STOVL Series	A		34,963				34,963	U
60	F-35 CV Series	A		31,689				31,689	U
61	QRC	A		39,916				39,916	U
62	MQ-4 Series	A		39,996				39,996	U
63	RQ-21 Series	A							U
	Total Modification of Aircraft			2,847,722				2,847,722	
Budget Activity 06: Aircraft Spares and Repair Parts									

Aircraft Spares and Repair Parts									
64	Spares and Repair Parts	A		1,700,764				1,700,764	U
	Total Aircraft Spares and Repair Parts			1,700,764				1,700,764	
Budget Activity 07: Aircraft Support Equip & Facilities									

Aircraft Support Equip & Facilities									
65	Common Ground Equipment	A		388,052				388,052	U
66	Aircraft Industrial Facilities	A		25,076				25,076	U
67	War Consumables	A		39,614				39,614	U
68	Other Production Charges	A		1,463				1,463	U
69	Special Support Equipment	A		48,500				48,500	U
70	First Destination Transportation	A		1,976				1,976	U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
59	F-35 STOVL Series	A		36,618			36,618		U
60	F-35 CV Series	A		21,236			21,236		U
61	QRC	A		101,499		2,410	103,909		U
62	MQ-4 Series	A		48,278			48,278		U
63	RQ-21 Series	A		6,904		17,215	24,119		U
				-----		-----	-----		
	Total Modification of Aircraft			3,156,663		45,054	3,201,717		
Budget Activity 06: Aircraft Spares and Repair Parts									

Aircraft Spares and Repair Parts									
64	Spares and Repair Parts	A		1,792,920			1,792,920		U
				-----		-----	-----		
	Total Aircraft Spares and Repair Parts			1,792,920			1,792,920		
Budget Activity 07: Aircraft Support Equip & Facilities									

Aircraft Support Equip & Facilities									
65	Common Ground Equipment	A		421,606			421,606		U
66	Aircraft Industrial Facilities	A		24,496			24,496		U
67	War Consumables	A		42,108			42,108		U
68	Other Production Charges	A		1,444			1,444		U
69	Special Support Equipment	A		49,489			49,489		U
70	First Destination Transportation	A		1,951			1,951		U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-----
71	Cancelled Account Adjustments	A	239				U
			-----	-----	-----	-----	
	Total Aircraft Support Equip & Facilities		464,642	504,218	504,218	463	
	Budget Activity 20: Undistributed						

	Undistributed						
72	Adj to Match Continuing Resolution	A		1,062,816	1,062,816	524,887	U
			-----	-----	-----	-----	
	Total Undistributed			1,062,816	1,062,816	524,887	
			-----	-----	-----	-----	
	Total Aircraft Procurement, Navy		16,834,587	16,119,051	16,019,051	682,187	

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(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO Quantity	Cost	FY 2018 Emergency Requests** Emergency Quantity	Cost	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
71	Cancelled Account Adjustments	A									U
			-----		-----		-----		-----		
	Total Aircraft Support Equip & Facilities			463							
	Budget Activity 20: Undistributed										

	Undistributed										
72	Adj to Match Continuing Resolution	A	524,887								U
			-----		-----		-----		-----		
	Total Undistributed		524,887								
			-----		-----		-----		-----		
	Total Aircraft Procurement, Navy		682,187								

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Total Obligational Authority
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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity Cost	S e c -
----	-----	-----	-----	-----	-----	-
71	Cancelled Account Adjustments	A				U
			-----	-----	-----	
	Total Aircraft Support Equip & Facilities		504,681		504,681	
	Budget Activity 20: Undistributed					

	Undistributed					
72	Adj to Match Continuing Resolution	A	1,587,703		1,587,703	U
			-----	-----	-----	
	Total Undistributed		1,587,703		1,587,703	
			-----	-----	-----	
	Total Aircraft Procurement, Navy		16,701,238		16,701,238	

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Total Obligational Authority
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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
71	Cancelled Account Adjustments	A							U
			-----		-----		-----		
	Total Aircraft Support Equip & Facilities			541,094				541,094	
	Budget Activity 20: Undistributed								

	Undistributed								
72	Adj to Match Continuing Resolution	A							U
			-----		-----		-----		
	Total Undistributed								
			-----		-----		-----		
	Total Aircraft Procurement, Navy			19,041,799		80,119		19,121,918	

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8	01	01	0158	CH-53K (Heavy Lift), Advance Procurement.....	Volume 1 - 55
9	01	01	0164	V-22 (Medium Lift).....	Volume 1 - 59
10	01	01	0164	V-22 (Medium Lift), Advance Procurement.....	Volume 1 - 75
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24	04	01	0443	MQ-8 UAV.....	Volume 1 - 183
25	04	01	0444	STUASLO.....	Volume 1 - 193
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F-18 Series	0525	30	05	01.....	Volume 2 - 51
F-35 CV Series	0593	60	05	01.....	Volume 2 - 967
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Line Item Title	Line Item Number	Line #	BA	BSA	Page
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ID Sys	0582	52	05	01.....	Volume 2 - 803
JT Primary Acft Trnr Sys (JPATS)	0571	47	05	01.....	Volume 2 - 707
MAGTF EW for Aviation	0587	54	05	01.....	Volume 2 - 849
MQ-4 Series	0596	62	05	01.....	Volume 2 - 985
MQ-8 Series	0588	55	05	01.....	Volume 2 - 861
Next Generation Jammer (NGJ)	0591	58	05	01.....	Volume 2 - 947
P-3 Series	0538	35	05	01.....	Volume 2 - 373
P-8 Series	0586	53	05	01.....	Volume 2 - 809
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QRC	0595	61	05	01.....	Volume 2 - 983
RQ-21 Series	0598	63	05	01.....	Volume 2 - 993
RQ-7 Series	0589	56	05	01.....	Volume 2 - 885
SH-60 Series	0530	32	05	01.....	Volume 2 - 281
Special Project Acft	0567	44	05	01.....	Volume 2 - 645
T-45 Series	0569	45	05	01.....	Volume 2 - 653
Trainer Acft Series	0549	37	05	01.....	Volume 2 - 461
V-22 (Tilt/Rotor Acft) Osprey	0590	57	05	01.....	Volume 2 - 891

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0513 / AEA Systems

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	280.079	50.451	52.960	25.277	0.000	25.277	46.105	62.778	56.612	58.069	90.195	722.526
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	280.079	50.451	52.960	25.277	0.000	25.277	46.105	62.778	56.612	58.069	90.195	722.526
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	280.079	50.451	52.960	25.277	0.000	25.277	46.105	62.778	56.612	58.069	90.195	722.526
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to Airborne Electronic Attack (AEA) products used on multiple platforms. Modifications budgeted and programmed include: procurement and enhancement of the AN/ALQ-99 Tactical Jamming System (TJS) and Low Band Transmitter Antenna Group (LBT AG) inventory, AN/ALQ-99 TJS upgrades and related sustainability, capability, and viability modifications. AEA will support procurement of new technologies and equipment as needed to combat emerging and evolving electronic warfare technology and systems.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0513 / AEA Systems				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11) (RELIABILITY / MISSION CAPABILITY)				- / 267.679	- / 50.451	- / 52.960	- / 25.277	- / 0.000	- / 25.277
P-3a	2 / Inactive OSIPS (RELIABILITY / MISSION CAPABILITY)				- / 12.400	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 280.079	- / 50.451	- / 52.960	- / 25.277	- / 0.000	- / 25.277
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11) (RELIABILITY / MISSION CAPABILITY)				- / 46.105	- / 62.778	- / 56.612	- / 58.069	- / 90.195	- / 710.126
P-3a	2 / Inactive OSIPS (RELIABILITY / MISSION CAPABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 12.400
P-40	Total Gross/Weapon System Cost				- / 46.105	- / 62.778	- / 56.612	- / 58.069	- / 90.195	- / 722.526
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The Department of the Navy has been tasked with accomplishing the Nation's AEA mission in various theaters of operation over the last few decades. The AEA capability fielded by the Navy on the EA-18G Growler and EA-6B Prowler has been a high demand, low density asset. The Navy and Marine Corps are transitioning away from the EA-6B Prowler aircraft; the Navy has transitioned to the EA-18G Growler aircraft and the Marine Corps is transitioning to an organic capability utilizing electronic warfare payloads flown on Marine Corps aircraft. Stable investment in AEA systems will ensure continued availability of AEA capability to meet warfighter demand. Investment in the AN/ALQ-99 TJS will ensure continued system availability until Next Generation Jammer (NGJ) achieves Full Operational Capability across all bands of the Electromagnetic Spectrum (EMS). AEA System procurements and related efforts are required to combat emerging electronic warfare technology and systems. Investment in AEA System efforts will ensure that sufficient AEA capability is available to meet warfighter requirements. The FY 2019 funding request was reduced by \$18.931 million to account for the availability of prior year execution balances.										

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0513 / AEA Systems				Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	267.679	50.451	52.960	25.277	0.000	25.277	46.105	62.778	56.612	58.069	90.195	710.126
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	267.679	50.451	52.960	25.277	0.000	25.277	46.105	62.778	56.612	58.069	90.195	710.126
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	267.679	50.451	52.960	25.277	0.000	25.277	46.105	62.778	56.612	58.069	90.195	710.126
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational and Safety Improvement Program covers system modifications required to improve AN/ALQ-99 reliability, maintainability, availability, resolve obsolescence issues, and correct deficiencies found in testing or in the field. Engineering changes are needed to enhance mission capability and integration of evolving Electronic Warfare systems to address increased mission requirements and emerging threats in support of EA-6B and EA-18G aircraft. The out of production transmitter inventory is static and is being stretched due to increasing electronic warfare aircraft numbers and mission requirements. The AN/ALQ-99 TJS consists of six transmitters that are mission configurable depending on target threat. Reconstitution of reclaimed United States Air Force (USAF) EF-111 Band 4 through 8 transmitters to United States Navy (USN) configuration will alleviate significant jammer inventory shortfalls for EA-6B and EA-18G platforms. B KITS: AN/ALQ-99 TJS hardware procurements include Hardback, Pod Interface Unit (PIU), the Universal Exciter Upgrade (UEU), Low Band Transmitter Antenna Group (LBT AG), Band 2, Band 4, Band 5/6, Band 7, Band 8 and Band 9/10 Transmitters and Antennas, Vertical Polarized (VPOL) Antenna, Batwing Reflector for the Band 9/10 Transmitter, Low Band Consolidation (LBC), and Radomes to include procurement of EA-18G Extended Low Band Radome (GELBR) and Universal High Band Radome (UHBR). INSTALLATION EQUIPMENT N/R: AN/ALQ-99 TJS obsolescence mitigation efforts, capability and reliability enhancements require non-recurring engineering for AN/ALQ-99 TJS components such as the Hardback, PIU, the UEU, LBT AG, Band 2, Band 4, Band 5/6, Band 7, Band 8 and Band 9/10 Transmitters and Antennas. Efforts planned for FY 2019 and FY 2020 include additional engineering and design work for the consolidation of the Low Band Transmitter and Band 4 Transmitter into a single form factor with production commencing in FY 2021, referred to as LBC. SUPPORT EQUIPMENT: Introduction of new/modified AN/ALQ-99 pod equipment requires new/modified organizational, intermediate, and depot level support equipment; such as modifications and additions to the AN/ALQ-99 pod test set to support LBT AG, modifications to the High Power Device Test Set to extend frequency coverage to test Band 9/10 Transmitters, and efforts to re-engineer and procure Nondestructive (NDI) eddy current inspection set, De-air Fluid Cooling System (DFCS), electronic Tactical Pod Tester (e-TPT), and LBC Operational Test Program Set (OTPS). Required changes to existing support equipment will improve reliability, maintainability, availability, address obsolescence issues, and correct deficiencies found in testing or in the field. Additionally, funds will provide for depot support equipment in order to resolve AN/ALQ-99 readiness degraders. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: LBC conducted Critical Design Review (CDR) in July 2017 and will reach production in FY 2021. The FY 2019 funding request was reduced by \$18.931 million to account for the availability of prior year execution balances.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0513 / AEA Systems						Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: MULTIPLE PLATFORMS				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Airborne Electronic Attack (AEA) Systems (OSIP 007-11)													
B Kits													
Recurring													
2.1.1) Transmitters - Organic ⁽¹⁾	49 / 13.444	11 / 3.613	6 / 1.950	- / -	- / -	- / -	5 / 1.961	4 / 1.600	7 / 2.899	9 / 3.746	- / -	91 / 29.213	
2.1.2) Vertical Polarized (VPOL) Antenna - Organic ⁽²⁾	- / -	- / -	- / -	39 / 1.671	- / -	39 / 1.671	150 / 6.554	- / -	- / -	- / -	- / -	189 / 8.225	
2.1.3) Radomes - Organic ⁽³⁾	30 / 3.940	- / -	25 / 3.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 7.152	
2.1.4) Low Band Consolidation - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 42.381	60 / 43.229	62 / 44.826	94 / 69.735	276 / 200.171	
2.1.5) Batwing Reflector - Organic ⁽⁴⁾	- / -	15 / 0.030	193 / 0.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	208 / 0.424	
2.1.6) Archived Mods - Organic	205 / 131.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	205 / 131.642	
<i>Subtotal: Recurring</i>	- / 149.026	- / 3.643	- / 5.556	- / 1.671	- / -	- / 1.671	- / 8.515	- / 43.981	- / 46.128	- / 48.572	- / 69.735	- / 376.827	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 72.143	- / 41.725	- / 10.546	- / 0.400	- / -	- / 0.400	- / 0.411	- / -	- / -	- / -	- / -	- / 125.225	
<i>Subtotal: Non-Recurring</i>	- / 72.143	- / 41.725	- / 10.546	- / 0.400	- / -	- / 0.400	- / 0.411	- / -	- / -	- / -	- / 0.000	- / 125.225	
<i>Subtotal: Airborne Electronic Attack (AEA) Systems (OSIP 007-11)</i>	284 / 221.169	26 / 45.368	224 / 16.102	39 / 2.071	- / -	39 / 2.071	155 / 8.926	64 / 43.981	67 / 46.128	71 / 48.572	94 / 69.735	1,024 / 502.052	
<i>Subtotal: Procurement, All Modification Items</i>	- / 221.169	- / 45.368	- / 16.102	- / 2.071	- / -	- / 2.071	- / 8.926	- / 43.981	- / 46.128	- / 48.572	- / 69.735	- / 502.052	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 8.937	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.937	
3.2) Data	- / 0.222	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.222	
3.3) Support Equipment ⁽⁵⁾	- / 16.801	- / 0.046	- / 3.798	- / 3.820	- / -	- / 3.820	- / 6.260	- / 4.764	- / 3.432	- / 2.759	- / 5.729	- / 47.409	
3.4) Integrated Logistics Support	- / 13.462	- / 0.256	- / 0.261	- / 0.266	- / -	- / 0.266	- / 0.271	- / 0.277	- / 0.269	- / 0.284	- / 0.584	- / 15.930	
3.5) Other Support ⁽⁶⁾	- / 7.088	- / 4.781	- / 32.799	- / 19.120	- / -	- / 19.120	- / 30.648	- / 13.756	- / 6.783	- / 6.454	- / 14.147	- / 135.576	
<i>Subtotal: Support</i>	- / 46.510	- / 5.083	- / 36.858	- / 23.206	- / -	- / 23.206	- / 37.179	- / 18.797	- / 10.484	- / 9.497	- / 20.460	- / 208.074	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0513 / AEA Systems					Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MULTIPLE PLATFORMS				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total Cost (Procurement + Support + Installation)	267.679	50.451	52.960	25.277	0.000	25.277	46.105	62.778	56.612	58.069	90.195	710.126	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Airborne Electronic Attack (AEA) Systems (OSIP 007-11)		
Footnotes: (1) Transmitters include procurement of Low Band Transmitter Antenna Group, Band 2, Band 4, Band 5/6, Band 7, Band 8 and Band 9/10, and antennas. Yearly unit cost varies based on type and quantity of transmitter/antenna procured. (2) Vertical Polarized (VPOL) Antenna broken out from Transmitters for budget clarity and includes procurement of antennas in FY 2019 and FY 2020. (3) Radomes broken out from Transmitters for budget clarity and includes procurement of EA-18G Extended Low Band Radome (GELBR) in FY 2018. Yearly unit cost varies based on type and quantity of radome procured. (4) NAVAIR Commander's Speed to Fleet Initiative includes procurement of Batwing Reflector for the Band 9/10 Transmitter in FY 2017 and FY 2018. (5) Support Equipment fluctuates from FY 2018 - FY 2023 due to efforts to re-engineer and procure Nondestructive Eddy Current Inspection Set, De-air Fluid Cooling System, Electronic Tactical Pod Tester, and LBC Operation Test Program Set. (6) Other Support increases in FY 2018 - FY 2020 due to LBC government and contracted production testing and AN/ALQ-99 program execution adjustments.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 2 / Inactive OSIPS

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	12.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.400
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	12.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.400
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	12.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.400
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0513 / AEA Systems						Modification Number / Title: 2 / Inactive OSIPS			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: MULTIPLE PLATFORMS				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPS													
A Kits													
Recurring													
1.1.1) INACTIVE OSIPS - Organic	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.400	
<i>Subtotal: Recurring</i>	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 12.400	
<i>Subtotal: Inactive OSIPS</i>	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.400	
<i>Subtotal: Procurement, All Modification Items</i>	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 12.400	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	12.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.400	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 2 / Inactive OSIPS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0514 / AV-8 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 530												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,318.970	56.275	43.555	58.577	0.000	58.577	42.082	33.948	37.866	38.647	91.978	1,721.898
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,318.970	56.275	43.555	58.577	0.000	58.577	42.082	33.948	37.866	38.647	91.978	1,721.898
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,318.970	56.275	43.555	58.577	0.000	58.577	42.082	33.948	37.866	38.647	91.978	1,721.898
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION: This line item funds modifications to T/AV-8B aircraft. The AV-8B is a single engine, single crew member (two crew members for the trainer) aircraft capable of vertical/short take-off and landing operations. The AV-8B meets the Marine Corps requirements for a light attack aircraft to provide responsive offensive air power that can operate from ships and austere forward bases in direct support of ground forces. The overall goal of the modifications budgeted in FY 2019 is to continue incorporation of Obsolescence Replacement/Readiness Management Plan systems; electrical and structural changes; upgrade air-to-air weapon system employment and integration components; inventory sustainment and upgrade efforts to offset obsolescence and attrition; incorporation of LITENING Pod upgrades, to include an advanced tactical Datalink and release of associated software upgrades; incorporation of AV-8B F402-RR-408 engine safety and operational changes and incorporation of a digitally interoperable Link 16 capability and associated software upgrades. The AV-8B active inventory (November 2017) consists of 4 configurations: 16 Two-Seat T/AV-8B Aircraft 34 Night Attack Aircraft 55 RADAR Remanufacture Aircraft 20 RADAR Production Aircraft Retrofit quantities of each Engineering Change Proposal (ECP) vary by aircraft configuration type & inventory when the change was introduced into production. Retrofit quantities of each ECP also vary depending on whether the ECP applies to the airframe or an individual Weapons Replaceable Assembly. Non-recurring Engineering (NRE) varies from year to year based on complexity of ECPs and upgrades being engineered for implementation in a given year. Publications and Integrated Logistics Support (ILS) also vary from year to year based on complexity of logistics elements and number of publications required to be updated for each individual ECP. NOTE: Service Life - 2026. 1 Day Attack Upgrade aircraft and one RADAR Remanufacture aircraft stricken from inventory in FY17.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy			Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft			P-1 Line Item Number / Title: 0514 / AV-8 Series		
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A		Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: 530					

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AV-8B LITENING POD (OSIP 023-00) (Upgrade)				- / 608.168	- / 20.792	- / 16.814	- / 30.509	- / 0.000	- / 30.509
P-3a	2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04) (Upgrade)				- / 58.647	- / 4.883	- / 3.818	- / 3.858	- / 0.000	- / 3.858
P-3a	3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06) (TBD)				- / 161.220	- / 18.092	- / 15.395	- / 20.687	- / 0.000	- / 20.687
P-3a	4 / DIGITAL INTEROPERABILITY (OSIP 014-16) (Upgrade)				- / 9.142	- / 12.508	- / 7.528	- / 3.523	- / 0.000	- / 3.523
P-3a	5 / INACTIVE OSIPS (TBD)				- / 481.793	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,318.970	- / 56.275	- / 43.555	- / 58.577	- / 0.000	- / 58.577

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AV-8B LITENING POD (OSIP 023-00) (Upgrade)				- / 21.880	- / 21.324	- / 26.950	- / 27.416	- / 41.434	- / 815.287
P-3a	2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04) (Upgrade)				- / 3.392	- / 3.706	- / 4.461	- / 4.550	- / 15.634	- / 102.949
P-3a	3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06) (TBD)				- / 14.738	- / 7.473	- / 6.455	- / 6.681	- / 34.910	- / 285.651
P-3a	4 / DIGITAL INTEROPERABILITY (OSIP 014-16) (Upgrade)				- / 2.072	- / 1.445	- / 0.000	- / 0.000	- / 0.000	- / 36.218
P-3a	5 / INACTIVE OSIPS (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 481.793
P-40	Total Gross/Weapon System Cost				- / 42.082	- / 33.948	- / 37.866	- / 38.647	- / 91.978	- / 1,721.898

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2019 funding request was reduced by \$0.912M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

FY 2019 funding will also continue funding COFP V4 software upgrade, required to utilize ATDL, and associated firmware validation and logistics elements to include training and support equipment. COFP V4 will integrate new data sets to the aircraft mission and weapon systems computers, and will integrate Pod Datalink encryption. FY 2019 will also begin procurement of the ATDL, and will begin non-recurring engineering efforts for the LITENING Digital Port Upgrade. The increase in FY 2019 is due to the V4 effort increasing due to being in verification and qualification, as well as aircraft OFP software integration phase, starting ATDL procurement and LITENING Digital Port NRE.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	608.168	20.792	16.814	30.509	0.000	30.509	21.880	21.324	26.950	27.416	41.434	815.287
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	608.168	20.792	16.814	30.509	0.000	30.509	21.880	21.324	26.950	27.416	41.434	815.287
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	608.168	20.792	16.814	30.509	0.000	30.509	21.880	21.324	26.950	27.416	41.434	815.287
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AV-8B LITENING POD (OSIP 023-00)

DESCRIPTION/JUSTIFICATION:

The system integrates and procures an external targeting pod that includes an infrared and low-light television targeting device capable of detecting, classifying, auto-tracking, and designating air-to-surface targets. The system will support first-pass autonomous delivery of conventional, precision guided and accurate munitions to include Laser Maverick, Guided Bomb Unit (GBU)-12, GBU-16, and Joint Direct Attack Munitions. The system will provide targeting capabilities for the AV-8B Fleet of Night Attack and RADAR aircraft through the end of its service life. The AV-8B Program Office is the single management authority, procuring, integrating, and managing the LITENING Pod program on all United States Marine Corps (USMC) (AV-8B/F/A-18/EA-6B) platforms in order to maintain commonality within the USMC Tactical Air (TACAIR) for LITENING capabilities. Under this structure, the G4 LITENING pod is being procured and integrated on the AV-8B, F/A-18, and EA-6B platforms via aircraft-specific Operational Flight Programs (OFPs). The G4 upgrade vastly improves combat capabilities through increased coverage, expanded Improvised Explosive Device detection capability, and expanding range of video downlink to support ground units equipped with Remote Operated Video Enhanced Receiver (ROVER) and Video Scout ground stations. Theater Joint Tactical Air Requests are specifically requesting LITENING Datalink capabilities for Intelligence, Surveillance, and Reconnaissance. The upgrade doubles the Forward Looking Infrared resolution, and adds Laser Target Image Processing (LTIP) for enhanced detection and targeting capability; increasing the survivability and effectiveness of ground forces. Further upgrades to the Pod Common USMC OFP, such as COFP V3 and V4, will be integrated in follow-on AV-8B, F/A-18, and EA-6B platform OFPs. Future upgrades are planned to the LITENING Datalink. The Advanced Tactical Datalink (ATDL), in conjunction with COFP V4, will permit collaborative and networked payloads to communicate with each other and determine appropriate action against multiple targets simultaneously. It will enable usage of multiple data waveforms for information exchange in both air-to-air and air-to-ground environments among an increasing number of contributors, providing the ability to link ground forces into a digital interoperable, robust, and flexible network architecture. The ATDL will serve as a conduit between disparate networks and waveforms and off-board relative and pertinent data to maneuvering forces in real time and will provide wireless networking capability. Support equipment will include portable power units, trouble shooting support equipment and video viewing devices. The associated software upgrade will integrate tracking Algorithm updates providing more reliable tracking of moving targets, improvements to the passive ranging, improvements to Pod focus and mode selection process, and image overlay mode. The LITENING Digital Port Upgrade will enable the LITENING pod to connect to the aircraft via high speed Ethernet connection, which will enable transmission of high definition LITENING pod video to a tablet display in the cockpit via an aircraft wiring kit. This will enable aircrew to view pod video in high definition in order to better identify threats and positively identify targets.

FY19 funding will also continue funding COFP V4 software upgrade, required to utilize ATDL, and associated firmware validation and logistics elements to include training and support equipment. COFP V4 will integrate new data sets to the aircraft mission and weapon systems computers, and will integrate Pod Datalink encryption. FY19 will also begin procurement of the ATDL, and will begin non-recurring engineering efforts for the LITENING Digital Port Upgrade. The increase in FY19 is due to the V4 effort increasing due to being in verification and qualification, as well as aircraft OFP software integration phase, starting ATDL procurement and LITENING Digital Port NRE.

All LITENING modifications, software/firmware validation, and associated logistics elements support all three USMC TACAIR Expeditionary platforms that are currently supporting Overseas Contingency Operations (OCO) combat operations, and all Commandant of the Marine Corps directed pre-deployment training requirements. COFP costs will fluctuate between years due to software/firmware upgrade

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
complexity for specific software upgrades, as well as differences in scope between early contractor efforts for Pod software, and following Organic efforts for aircraft software coding and integration. Conduct mitigations for parts obsolescence in the LITENING pod and associated training and support equipment. Funds will be utilized to manage, process, and incorporate LITENING upgrades and implement changes to sustain and improve the digital interoperability systems readiness including safety, mission availability, system employment, and component reliability, maintainability, and obsolescence conditions as these emerging deficiencies arise and require modification. This funding will ensure that software is upgraded and integrated, and logistically supported to ensure the LITENING capabilities are integrated with aircraft OFPs.		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The LITENING Targeting Pod is a non-developmental item and has been in full production for several years. FY19 baseline funding will continue Common OFP V4 upgrade efforts to include integration into platform OFPs, continues ATDL upgrade efforts, begins procurement of ATDLs, begins engineering effort associated with LITENING Digital Port Upgrade, will continue Block 1 to G4 LITENING Pod upgrades, and will perform software/firmware validation and associated logistics elements to include publications, training equipment and support equipment. The LITENING pod will be in service past the out of service date of the AV-8B, as the Expeditionary USMC LITENING pod will remain in service and require ongoing upgrades to support its use on the USMC F/A-18 platform through its service life.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series				Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: AV-8B Night Attack & Radar/Reman				Modification Type: Upgrade				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AV-8B LITENING POD (OSIP 023-00)													
A Kits													
Recurring													
1.1.1) ECP-TBD AV-8B LITENING Video to Cockpit Wiring A Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.592	19 / 1.462	24 / 1.884	18 / 1.441	4 / 0.320	73 / 5.699	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.592	- / 1.462	- / 1.884	- / 1.441	- / 0.320	- / 5.699	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽¹⁾	- / -	- / -	- / -	- / 8.779	- / -	- / 8.779	- / 0.598	- / -	- / -	- / -	- / -	- / 9.377	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 8.779	- / -	- / 8.779	- / 0.598	- / -	- / -	- / -	- / 0.000	- / 9.377	
B Kits													
Recurring													
2.1.1) Pod Upgrade Kits (BLOCK 1 to GEN4) - Organic ⁽²⁾	39 / 56.806	- / -	3 / 5.483	4 / 7.456	- / -	4 / 7.456	- / -	- / -	- / -	- / -	- / -	46 / 69.745	
2.1.2) Common OFF V4 - Organic ⁽³⁾	- / -	- / 4.876	- / 7.430	- / 8.791	- / -	- / 8.791	- / 5.811	- / 1.555	- / -	- / -	- / -	- / 28.463	
2.1.3) Advanced Tactical Datalink (ATDL) WRA - Organic ⁽⁴⁾	- / -	- / -	- / -	8 / 2.268	- / -	8 / 2.268	23 / 6.997	24 / 7.536	34 / 10.781	31 / 10.032	- / -	120 / 37.614	
2.1.4) Litening Digital Port Pod Upgrade - Organic	- / -	- / -	- / -	- / -	- / -	- / -	8 / 2.757	19 / 6.813	24 / 8.778	26 / 9.700	43 / 16.043	120 / 44.091	
2.1.5) Archived ECPs - Organic	204 / 319.634	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	204 / 319.634	
2.1.6) Archived ECP's (OCO) - Organic	68 / 97.198	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 97.198	
Subtotal: Recurring	- / 473.638	- / 4.876	- / 12.913	- / 18.515	- / -	- / 18.515	- / 15.565	- / 15.904	- / 19.559	- / 19.732	- / 16.043	- / 596.745	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽⁵⁾	- / 40.671	- / 14.613	- / 2.080	- / 1.666	- / -	- / 1.666	- / 1.362	- / 1.173	- / 1.036	- / 1.014	- / 11.489	- / 75.104	
Subtotal: Non-Recurring	- / 40.671	- / 14.613	- / 2.080	- / 1.666	- / -	- / 1.666	- / 1.362	- / 1.173	- / 1.036	- / 1.014	- / 11.489	- / 75.104	
Subtotal: AV-8B LITENING POD (OSIP 023-00)	311 / 514.309	- / 19.489	3 / 14.993	12 / 28.960	- / -	12 / 28.960	39 / 18.117	62 / 18.539	82 / 22.479	75 / 22.187	47 / 27.852	631 / 686.925	
Subtotal: Procurement, All Modification Items	- / 514.309	- / 19.489	- / 14.993	- / 28.960	- / -	- / 28.960	- / 18.117	- / 18.539	- / 22.479	- / 22.187	- / 27.852	- / 686.925	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 1.748	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.748	
3.2) Data ⁽⁶⁾	- / 1.525	- / 0.025	- / 0.051	- / 0.052	- / -	- / 0.052	- / 0.409	- / 0.053	- / 0.054	- / 0.056	- / 0.361	- / 2.586	
3.3) Training Equipment ⁽⁷⁾	- / 21.031	- / 0.335	- / 0.638	- / 0.342	- / -	- / 0.342	- / 1.524	- / 0.353	- / 0.360	- / 0.367	- / 2.544	- / 27.494	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series				Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: AV-8B Night Attack & Radar/Reman			Modification Type: Upgrade					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.4) Support Equipment ⁽⁸⁾	111 / 7.690	- / 0.081	- / 0.082	- / 0.084	- / -	- / 0.084	- / 0.718	- / 0.125	- / 0.137	- / 0.127	- / 0.628	111 / 9.672
3.5) ILS ⁽⁹⁾	- / 4.453	- / 0.025	- / 0.026	- / 0.026	- / -	- / 0.026	- / 0.061	- / 0.027	- / 0.027	- / 0.028	- / 0.076	- / 4.749
3.6) Other Support	- / 57.412	- / 0.837	- / 1.024	- / 1.045	- / -	- / 1.045	- / 1.051	- / 1.067	- / 1.086	- / 1.109	- / 7.246	- / 71.877
Subtotal: Support	- / 93.859	- / 1.303	- / 1.821	- / 1.549	- / -	- / 1.549	- / 3.763	- / 1.625	- / 1.664	- / 1.687	- / 10.855	- / 118.126
Installation												
Modification Item 1 of 1: AV-8B LITENING POD (OSIP 023-00)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1.160	- / 2.807	- / 3.542	- / 2.727	- / 10.236
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.160	- / 2.807	- / 3.542	- / 2.727	- / 10.236
Total												
Total Cost (Procurement + Support + Installation)	608.168	20.792	16.814	30.509	0.000	30.509	21.880	21.324	26.950	27.416	41.434	815.287

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0514 / AV-8 Series										Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: AV-8B LITENING POD (OSIP 023-00)																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: TBD																
Administrative Leadtime (in Months): 0															Production Leadtime (in Months): 0																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: ECP-TBD AV-8B LITENING Video to Cockpit Wiring A Kit																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2017		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2018		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		8 / 1.160		- / -		- / -		0 / 0.000		8 / 1.160		8 / 1.160						
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		19 / 2.807		- / -		0 / 0.000		19 / 2.807		19 / 2.807						
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		24 / 3.542		0 / 0.000		24 / 3.542		24 / 3.542						
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		18 / 2.147		18 / 2.147		18 / 2.147						
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 0.580		4 / 0.580		4 / 0.580						
Total		- / -	- / -		- / -		- / -		- / -		- / -		- / -		8 / 1.160		19 / 2.807		24 / 3.542		22 / 2.727		73 / 10.236		73 / 10.236						
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	5	5	5	4	6	6	6	6	22	73
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	5	5	5	4	6	6	6	28	73
Method of Implementation (Organic): Pod Upgrade Kits (BLOCK 1 to GEN4)																									Installation Quantity: 46						
Method of Implementation (Organic): Advanced Tactical Datalink (ATDL) WRA - Not Installed																									Installation Quantity: 120						

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: AV-8B LITENING POD (OSIP 023-00)		
Installation Information		
Method of Implementation (Organic): Litening Digital Port Pod Upgrade - Not Installed		Installation Quantity: 120
Method of Implementation (Organic): Archived ECPs		Installation Quantity: 204
Method of Implementation (Organic): Archived ECP's (OCO)		Installation Quantity: 68
Footnotes: (1) Installation Kits N/R: Installation Kits N/R is required in FY19 to perform complex NRE/verification required to procure and install ECP-TBD AV-8B LITENING Video to Cockpit Wiring A Kit. (2) Pod Upgrade Kits (BLOCK 1 to GEN4): The Block 1 to Gen 4 Pod Upgrade Kit contract per unit price decreases with each unit procured, to include units procured by other services. FY18 and FY19 are expected to be a standalone small quantity procurements, impacting per unit price. (3) Common OFP V4: Planned implementation via aircraft platform ECP following completion of Common OFP V3. COFP V4 will incorporate ATDL software. This upgrade will be implemented in aircraft via platform ECPs for AV-8B, F/A-18, and EA-6B. Costs fluctuate from year to year due to varying costs of contractor efforts to write Pod software, and following multiple-year Government efforts to write aircraft side software to integrate with contractor Pod software. Increase in FY19 is due to plans to be in work at organic field activities integrating COFP V4 with AV-8B, F/A-18, and EA-6B platform OFPs and verifying contractor software on aircraft. Quantity is not reflected as each platform will produce software that will be incorporated via ECP at the O-level in all aircraft capable of utilizing the LITENING pod. (4) Advanced Tactical Datalink (ATDL) WRA: Increase in quantity from FY20 through FY23 required to permit collaborative and networked payloads to communicate with each other and determine appropriate action against multiple targets simultaneously. (5) Installation Equipment N/R: NRE supports integration of COFP V4, as well as NRE for Advanced Tactical Datalink (ATDL). Firmware validations also performed under this line. NRE fluctuates from year to year based on the complexity of the effort undergoing NRE. Increase in FY17 from PB18 is due to beginning NRE on the ATDL, and the increased amount of non-recurring engineering required to integrate the ATDL in the Litening Pod as utilized aboard the AV-8B and F/A-18. FY19 NRE required to perform necessary validation of LITENING firmware updates with the AV-8B, F/A-18, and EA-6B platforms. (6) Data: FY20 increase is due required publication updates to incorporate the COFP V4 and ATDL hardware into the Fleet LITENING Pods, as well as the incorporation of the LITENING Digital Port upgrade and ECP-TBD LITENING Video to Cockpit Wiring modification into the publications. Amounts fluctuate per fiscal year due to changes in publication efforts planned for each year, and depending on the types of upgrades in work in a given year. Costs change due to number, type, and complexity of hardware/software/firmware updates planned each year. This OSIP is made up of multiple upgrades, and each upgrade is not in the same state each year, nor does each upgrade impact the same number of pages in publications. (7) Training Equipment: Trainer funding is required in FY19-FY21 for COFP V4 and ATDL trainer upgrades. FY's 17, 18, and 20 reflect NAWC TSD organic efforts for these upgrades. Costs increase in FY20 due to expected contract award to account for ATDL and COFP V4 efforts. Costs fluctuate from year to year due to changing levels of effort required organically and by contracts to support COFP V4 as well as ATDL. As the effort progresses, the funds required fluctuate from year to year. (8) Support Equipment: Increase in FY20 is due to requirement to upgrade support equipment utilized to playback LITENING video. (9) ILS: Increase in FY20 due to ILS required to support ECP-TBD AV-8B LITENING Video to Cockpit Wiring Kit modification.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	58.647	4.883	3.818	3.858	0.000	3.858	3.392	3.706	4.461	4.550	15.634	102.949
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	58.647	4.883	3.818	3.858	0.000	3.858	3.392	3.706	4.461	4.550	15.634	102.949
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	58.647	4.883	3.818	3.858	0.000	3.858	3.392	3.706	4.461	4.550	15.634	102.949
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04) DESCRIPTION/JUSTIFICATION: The AV-8B is a single engine aircraft with unique capabilities. The Vertical/Short Take-off Landing environment is very unforgiving and allows no tolerance for engine problems. The Engine Life Management Program is a comprehensive program to increase safety of flight and operational readiness of the AV-8B F402-RR-408 Engine. Funding provided is to incorporate Engineering Change Proposals (ECP) to increase safety of flight and operational readiness of the F-402-RR-408 Engine. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Operational, Safety and Improvement Program 02-04 supports the Harrier AV-8B ELMP through Aircraft Procurement, Navy funding. Power Plant changes are required throughout the aircraft service life as the aircraft ages and operationally revealed deficiencies are discovered, researched, and solutions engineered. The Component Improvement Program, which is Research Development Test & Evaluation funded, provides for the development and demonstration of the engineered solutions to these deficiencies and Power Plant changes are initiated through the ECP process. The power plant program procures the necessary kits, installation, non-recurring engineering, peculiar support equipment, and technical data. The kits provided are for engine, propulsion accessories and related hardware to support the AV-8B F402-RR-408 engine. The purpose of the program is to increase safety of flight and operational readiness of the AV-8B F402-RR-408 Engine. The ELMP is comprised of several Engineering Project Description (EPD) investigations that provide engineering solutions for fleet safety and parts obsolescence issues. The EPD investigations and resulting ECPs will be implemented and formalized under the development program and incorporated into the F402-RR-408 via OSIP 02-04. This OSIP also provides funding for the Integrated Logistics Support program whose primary objective is to achieve an effective, affordable and supportable program for the engine that fulfills its readiness and fleet operational requirements at the lowest Life Cycle Cost.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: AV-8B Night Attack & Radar/Reman				Modification Type: Upgrade					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)													
A Kits													
Recurring													
1.1.1) ECP-1095 GTS Brake Seal - Organic		- / -	41 / 0.600	43 / 0.630	43 / 0.642	- / -	43 / 0.642	8 / 0.120	8 / 0.120	8 / 0.122	8 / 0.124	63 / 0.994	222 / 3.352
1.1.2) ECP TBD EVICS Interrogator / Obsolescence - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	194 / 6.000	194 / 6.000
1.1.3) ECP TBD LPC1 Redesign - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	3 / 0.300
1.1.4) ECP TBD #2 Bearing Redesign - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	3 / 0.300
1.1.5) ECP TBD CCOC Thermocouples - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	3 / 0.300
1.1.6) ECP TBD FMU Obsolescence - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	192 / 3.000	192 / 3.000
1.1.7) ECP TBD MK107 Conversion to 408B - Organic		- / -	1 / 0.534	1 / 0.536	1 / 0.538	- / -	1 / 0.538	1 / 0.540	1 / 0.550	1 / 0.561	1 / 0.572	- / -	7 / 3.831
1.1.8) Archived ECPs - Organic		449 / 11.509	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	449 / 11.509
Subtotal: Recurring		- / 11.509	- / 1.134	- / 1.166	- / 1.180	- / -	- / 1.180	- / 0.660	- / 0.670	- / 0.683	- / 0.696	- / 10.894	- / 28.592
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 0.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.104
Subtotal: Non-Recurring		- / 0.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.104
B Kits													
Non-Recurring													
2.1.1) Installation Equipment N/R - Organic		- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400
Subtotal: Non-Recurring		- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.400
Subtotal: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)		449 / 12.013	42 / 1.134	44 / 1.166	44 / 1.180	- / -	44 / 1.180	9 / 0.660	9 / 0.670	9 / 0.683	9 / 0.696	458 / 10.894	1,073 / 29.096
Subtotal: Procurement, All Modification Items		- / 12.013	- / 1.134	- / 1.166	- / 1.180	- / -	- / 1.180	- / 0.660	- / 0.670	- / 0.683	- / 0.696	- / 10.894	- / 29.096
Support (All Modification Items)													
3.3) Data		- / 4.736	- / 0.303	- / 0.206	- / 0.197	- / -	- / 0.197	- / 0.162	- / 0.165	- / 0.168	- / 0.130	- / 1.417	- / 7.484
3.4) Support Equipment		- / 16.755	- / 1.151	- / 1.174	- / 1.197	- / -	- / 1.197	- / 1.221	- / 1.245	- / 1.270	- / 1.292	- / 0.463	- / 25.768
3.5) ILS ⁽¹⁰⁾		- / 19.468	- / 2.115	- / 1.089	- / 1.219	- / -	- / 1.219	- / 1.283	- / 1.560	- / 2.274	- / 2.366	- / 2.053	- / 33.427
3.6) Other Support		- / 4.975	- / 0.180	- / 0.183	- / 0.065	- / -	- / 0.065	- / 0.066	- / 0.066	- / 0.066	- / 0.066	- / 0.807	- / 6.474
3.8) Archived Support Costs		- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.700

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: AV-8B Night Attack & Radar/Reman					Modification Type: Upgrade					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<i>Subtotal: Support</i>	- / 46.634	- / 3.749	- / 2.652	- / 2.678	- / -	- / 2.678	- / 2.732	- / 3.036	- / 3.778	- / 3.854	- / 4.740	- / 73.853	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	58.647	4.883	3.818	3.858	0.000	3.858	3.392	3.706	4.461	4.550	15.634	102.949	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)		
Footnotes: (10) ILS: FY19 increase due to increased ECP development and support at Rolls Royce in coordination with AV-8B International partners.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	161.220	18.092	15.395	20.687	0.000	20.687	14.738	7.473	6.455	6.681	34.910	285.651
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	161.220	18.092	15.395	20.687	0.000	20.687	14.738	7.473	6.455	6.681	34.910	285.651
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	161.220	18.092	15.395	20.687	0.000	20.687	14.738	7.473	6.455	6.681	34.910	285.651
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Obsolescence Replacement provides for maintaining the readiness of the AV-8B weapons system until its projected end of service, which is now 2026 or until replaced by short take-off and vertical landing (STOVL) operations F-35B. This requires the airframe and integrated systems to exceed planned service life and requires both systems modifications and obsolescence solutions. Funds will be utilized to procure kits and kit components, incorporate Engineering Change Proposals (ECPs) and implement changes to sustain and improve AV-8B weapons system readiness including safety, mission availability, structural integrity, air-to-ground and air-to-air weapon system employment, stores expansion, and component (avionics/systems) reliability, maintainability, and obsolescence conditions, including peculiar support equipment. This program may be required to provide emergent, timely remedial action for any aircraft system, component or structure. All depot level modification installations will be planned and programmed concurrent with Integrated Maintenance Plan (IMP)/Planned Maintenance Interval (PMI) scheduled depot overhaul events to minimize aircraft out-of-service periods, unless safety or aircraft availability require stand-alone installations, or depot lack of capacity requires contracted modification installations. FY19 Installation funding supports installs of the following modifications: Center Tank Structural Mods, RADAR Utility Test Panel Upgrade, Frame 43 Bushings, Canopy Latch, Frame 29 Structure Mod, and Outrigger Positive Indicator. FY17 - FY23 Qty profile updated based on Depot's current schedule for modification installation. With the end of service life currently being 2026, OSIP 06-06 Obsolescence Replacement continues to focus on those ECPs that maintain the readiness of the AV-8B weapons system with consideration for cost and schedule. Procurement kit quantities have been accelerated for several ECPs in order to capitalize on and piggyback off of the compressed Link 16 installation schedule; this allows aircraft to receive multiple ECPs in conjunction with the Link 16 install which is not only a cost savings but also allows for aircraft to be returned to Ready Basic Aircraft (RBA) status in a significantly more timely manner. Determination of ECP kit quantities is based off of fleet requirements as outlined in the A-11 as well as information from the TYCOM which reflects the squadron transition plan for the AV-8B fleet. Support costs required for Obsolescence ECPs do not correlate significantly with the quantity or unit cost of kits procured. Non-recurring engineering and integrated logistic support (ILS) work continues for ECPs, procurements and installations for new and ongoing obsolescence and readiness requirements. Key efforts include an improved Canopy Latch, a Center Tank Structural Modification, and modifications to Frame 29, Frame 43, Leading Edge Root Extension (LERX), GR-9 Compatibility and Seat Caution Light Incorporation that address safety, integrity and obsolescence issues. Additional safety and reliability modifications include Outrigger Landing Gear Position Indicators, RADAR Utility Test Panel, RADAR ECS Filtration incorporation, Oil Caution Light Relocation, Landing, Approach and Hover Light Improvements, and OSP3R processor card obsolescence replacement. Other efforts include weapons capability ECPs and obsolescence mitigation ECPs, the integration and logistics elements required for use of Common Avionics Procured KY-58 obsolescence replacement, data/ILS updates for ECPs and support equipment												

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
procurements unique to the use of the BRU-70, and Display Computer. Various kit procurements and installations will continue throughout the Future Years Defense Plan. NRE will fluctuate due to mix and complexity of Readiness Management Plan ECPs being written and verified in each year. All ECPs do not require the same level of NRE.		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: [No Model Specified]			Modification Type: TBD						Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: OBSOLESCENCE REPLACEMENT (OSIP 006-06)													
A Kits													
Recurring													
1.1.1) ECP-PMA-257-2011-0001 Center Tank Structural Modification - NonOrganic	73 / 2.772	- / -	9 / 0.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 2.955	
1.1.2) ECP PMA-257-2008-0004 Frame 43 Bushings - NonOrganic	95 / 0.765	9 / 0.023	6 / 0.047	14 / 0.110	- / -	14 / 0.110	- / -	- / -	- / -	- / -	- / -	124 / 0.945	
1.1.3) ECP-MDC-AC-8B-00331 Frame 11 - NonOrganic (11)	21 / 1.723	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 1.723	
1.1.4) ECP-MDC-AV-8B-00332 Canopy Latch - NonOrganic	66 / 1.447	24 / 0.920	24 / 0.968	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 3.335	
1.1.5) ECP-PMA-257-2010-0002 Frame 29 Structure Modification - NonOrganic	40 / 2.416	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 2.416	
1.1.6) ECP-CP-049 Leading Edge Root Extension (LERX) - Organic	- / -	- / -	64 / 0.824	64 / 0.840	- / -	64 / 0.840	64 / 0.608	28 / 0.200	- / -	- / -	- / -	220 / 2.472	
1.1.7) ECP-TBD Seat Caution Light Incorporation - NonOrganic	- / -	4 / 0.630	- / -	74 / 0.768	- / -	74 / 0.768	31 / 0.328	- / -	- / -	- / -	- / -	109 / 1.726	
1.1.8) ECP-MDC-AV8B-0339 Utility Test Panel Upgrade - NonOrganic	- / -	40 / 1.861	35 / 1.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.323	
1.1.9) ECP-TBD Radar Environmental Control System (ECS) Filter Incorporation - Organic	- / -	- / -	- / -	74 / 0.779	- / -	74 / 0.779	- / -	- / -	- / -	- / -	- / -	74 / 0.779	
1.1.10) ECP-TBD Outrigger Positive Indicator - NonOrganic	- / -	- / -	2 / 0.020	74 / 0.740	- / -	74 / 0.740	33 / 0.336	- / -	- / -	- / -	- / -	109 / 1.096	
1.1.11) ECP-TBD AIM-9X Wiring Kit - Organic	- / -	- / -	110 / 1.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 1.650	
1.1.12) ECP-TBD Oil Caution Light - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	74 / 1.850	35 / 0.892	- / -	- / -	- / -	109 / 2.742	
1.1.13) ECP-TBD Nose Landing Gear Taxi Light - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	74 / 3.700	35 / 1.783	- / -	- / -	- / -	109 / 5.483	
1.1.14) ECP-TBD-Radome Replacement - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.250	10 / 2.550	90 / 22.950	109 / 27.750	
1.1.15) A Kits/Recurring - ARCHIVED ECPs - NonOrganic	2,637 / 12.420	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,637 / 12.420	
Subtotal: Recurring	- / 21.543	- / 3.434	- / 5.154	- / 3.237	- / -	- / 3.237	- / 6.822	- / 2.875	- / 2.250	- / 2.550	- / 22.950	- / 70.815	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic (12)	- / 21.222	- / 2.385	- / 0.303	- / 1.610	- / -	- / 1.610	- / 0.108	- / 0.109	- / 0.096	- / 0.145	- / -	- / 25.978	
Subtotal: Non-Recurring	- / 21.222	- / 2.385	- / 0.303	- / 1.610	- / -	- / 1.610	- / 0.108	- / 0.109	- / 0.096	- / 0.145	- / 0.000	- / 25.978	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series				Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: [No Model Specified]			Modification Type: TBD					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
B Kits													
Recurring													
2.1.1) ECP-TBD Open System Processor Version 3r (OSP3R) - Organic	- / -	- / -	- / -	145 / 4.480	- / -	145 / 4.480	- / -	- / -	- / -	- / -	- / -	145 / 4.480	
2.1.2) B Kits Recurring - ARCHIVED ECPs - Organic	128 / 30.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	128 / 30.236	
Subtotal: Recurring	- / 30.236	- / -	- / -	- / 4.480	- / -	- / 4.480	- / -	- / -	- / -	- / -	- / 0.000	- / 34.716	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽¹³⁾	- / 23.585	- / 2.302	- / 0.237	- / 1.420	- / -	- / 1.420	- / 0.331	- / -	- / -	- / -	- / -	- / 27.875	
Subtotal: Non-Recurring	- / 23.585	- / 2.302	- / 0.237	- / 1.420	- / -	- / 1.420	- / 0.331	- / -	- / -	- / -	- / 0.000	- / 27.875	
Subtotal: OBSOLESCENCE REPLACEMENT (OSIP 006-06)	3,060 / 96.586	77 / 8.121	250 / 5.694	445 / 10.747	- / -	445 / 10.747	276 / 7.261	98 / 2.984	9 / 2.346	10 / 2.695	90 / 22.950	4,315 / 159.384	
Subtotal: Procurement, All Modification Items	- / 96.586	- / 8.121	- / 5.694	- / 10.747	- / -	- / 10.747	- / 7.261	- / 2.984	- / 2.346	- / 2.695	- / 22.950	- / 159.384	
Support (All Modification Items)													
3.2) Data	- / 1.123	- / -	- / 0.218	- / 0.110	- / -	- / 0.110	- / 0.005	- / -	- / -	- / -	- / -	- / 1.456	
3.3) Training Equipment	- / 0.995	- / -	- / 0.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.054	
3.4) Support Equipment	- / 5.305	- / 0.016	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.421	
3.5) ILS ⁽¹⁴⁾	- / 3.796	- / 0.553	- / 0.548	- / 0.548	- / -	- / 0.548	- / 0.517	- / 0.517	- / 0.526	- / 0.536	- / 1.609	- / 9.150	
3.6) Other Support ⁽¹⁵⁾	- / 30.983	- / 4.329	- / 3.505	- / 3.204	- / -	- / 3.204	- / 3.264	- / 3.325	- / 3.387	- / 3.450	- / 10.351	- / 65.798	
Subtotal: Support	- / 42.202	- / 4.898	- / 4.430	- / 3.862	- / -	- / 3.862	- / 3.786	- / 3.842	- / 3.913	- / 3.986	- / 11.960	- / 82.879	
Installation													
Modification Item 1 of 1: OBSOLESCENCE REPLACEMENT (OSIP 006-06)	- / 22.432	- / 5.073	- / 5.271	- / 6.078	- / 0.000	- / 6.078	- / 3.691	- / 0.647	- / 0.196	- / 0.000	- / 0.000	- / 43.388	
Subtotal: Installation	- / 22.432	- / 5.073	- / 5.271	- / 6.078	- / -	- / 6.078	- / 3.691	- / 0.647	- / 0.196	- / -	- / 0.000	- / 43.388	
Total													
Total Cost (Procurement + Support + Installation)	161.220	18.092	15.395	20.687	0.000	20.687	14.738	7.473	6.455	6.681	34.910	285.651	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series				Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: OBSOLESCENCE REPLACEMENT (OSIP 006-06)												
Manufacturer Information												
Manufacturer Name: TBD							Manufacturer Location: TBD					
Administrative Leadtime <i>(in Months)</i> : 0							Production Leadtime <i>(in Months)</i> : 0					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: Various ⁽¹⁶⁾							Manufacturer Location: Various					
Administrative Leadtime <i>(in Months)</i> : 0							Production Leadtime <i>(in Months)</i> : 0					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Safety:: Installation Name: OBSOLESCENCE REPLACEMENT (OSIP 006-06)												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	2,540 / 22.432	35 / 5.052	93 / 4.429	22 / 4.101	0 / 0.000	22 / 4.101	4 / 0.676	- / -	- / -	- / -	0 / 0.000	2,694 / 36.690
FY 2017	- / -	1 / 0.021	64 / 0.795	12 / 0.432	0 / 0.000	12 / 0.432	- / -	- / -	- / -	- / -	0 / 0.000	77 / 1.248
FY 2018	- / -	- / -	2 / 0.047	65 / 1.545	0 / 0.000	65 / 1.545	9 / 1.817	- / -	- / -	- / -	0 / 0.000	76 / 3.409
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	162 / 1.198	- / -	- / -	- / -	0 / 0.000	162 / 1.198
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	212 / 0.647	- / -	- / -	0 / 0.000	212 / 0.647
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 0.196	- / -	0 / 0.000	70 / 0.196
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2,540 / 22.432	36 / 5.073	159 / 5.271	99 / 6.078	0 / 0.000	99 / 6.078	175 / 3.691	212 / 0.647	70 / 0.196	- / -	0 / 0.000	3,291 / 43.388

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Installation Information

Method of Implementation: Safety:: Installation Name: OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2,540	7	7	9	13	39	40	39	41	27	24	23	25	43	43	46	43	51	52	54	55	16	18	18	18	-	-	-	-	-	3,291
Out	2,540	7	7	9	13	39	40	39	41	27	24	23	25	43	43	46	43	51	52	54	55	16	18	18	18	-	-	-	-	-	3,291

Method of Implementation (Organic): ECP-CP-049 Leading Edge Root Extension (LERX)	Installation Quantity: 220

Method of Implementation (Organic): ECP-TBD Radar Environmental Control System (ECS) Filter Incorporation	Installation Quantity: 74

Method of Implementation (Organic): ECP-TBD AIM-9X Wiring Kit	Installation Quantity: 110

Method of Implementation (Organic): ECP-TBD-Radome Replacement	Installation Quantity: 109

Method of Implementation (Organic): ECP-TBD Open System Processor Version 3r (OSP3R)	Installation Quantity: 145

Method of Implementation (Organic): B Kits Recurring - ARCHIVED ECPs - Not Installed	Installation Quantity: 128

Footnotes:

- (11) ECP-MDC-AC-8B-00331 Frame 11: ECP has been placed in abeyance due to additional structural analysis of aircraft damage. The occurrence rate of crack damage to the Frame 11 has proven to be within tolerable limits.
- (12) Installation Kits N/R: Year-to-year fluctuations due to the mix and complexity of Readiness Management Plan ECPs being written and verified in each year. All ECPs do not require the same level of NRE.
- (13) Installation Equipment N/R: FY19 Increase to Installation Equipment N/R due to OSP3r Mission Systems Computer Processor Card NRE. Equip NRE will fluctuate due to mix and complexity of RMP ECPs being written and verified in each year. All ECPs do not require the same level of NRE.
- (14) ILS: Increase from PB18 due to the incorporation ILS required to support the OSP3r ECP. ILS Support costs required for Obsolescence ECPs do not significantly fluctuate based on the quantity or unit cost of kits procured.
- (15) Other Support: Increase from PB18 due to required obsolescence mitigation including avionics, hydraulic, electrical, flight controls, and structures bill of material development, and obsolescence ECP forecasting in order to support the extended end of service date. Other Support costs required for Obsolescence ECPs do not significantly fluctuate based on the quantity or unit cost of kits procured.
- (16) Contract and delivery dates are not provided due to the compilation of various ECPs, which compose the install schedule and have different individual contract and delivery dates.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.142	12.508	7.528	3.523	0.000	3.523	2.072	1.445	0.000	0.000	0.000	36.218
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.142	12.508	7.528	3.523	0.000	3.523	2.072	1.445	0.000	0.000	0.000	36.218
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.142	12.508	7.528	3.523	0.000	3.523	2.072	1.445	0.000	0.000	0.000	36.218
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The AV-8B is required to be digitally interoperable with other U.S. and Allied platforms via MIL-STD-6016 (Link 16) waveform. Airborne tactical Datalink messaging will be enabled via Link 16 waveform, providing the ability for the AV-8B to provide Precise Participant Location and Identification (PPLI), send and receive targeting information, view the common air/surface picture, and view Link surveillance tracks. This tactical data communication between the AV-8B, ground units, and joint assets will provide increased interoperability; improved safety/situational awareness/de-confliction, reduced kill timelines, and digital interoperability. Link 16 A and B kits will be incorporated into the aircraft via ECP. ECPs to include the Auxiliary Communications Navigation Identification Panel (ACNIP), Interference Blanker Unit (IBU) and the Mission Systems Computer (MSC) will also be required to be installed prior to or with Link 16 in order to utilize the capability, as will the APX-123 ECP, to be procured by PMA213. All ECPs will require NRE and logistics support elements to include tech data/pubs, ILS, training equipment/upgrade, support equipment procurement/modification and other support. This OSIP will also be used to perform efforts to address certifications and spectrum assignments of these systems, as well as parts obsolescence. FY19 will begin Link 16 upgrades to meet crypto modernization standards, and will address logistics elements, to include trainer upgrades associated to the H7.0 software ECPs that will incorporate the Link 16 capability upgrade. As the Link 16 functionality is enabled by H6.2 software, and Link 16 capability is upgraded by the H7.0 software, this OSIP supports the validation and configuration management of the Link 16 and aircraft OFP software as impacted by Link 16. Technology upgrades at COTS vendor drives software changes to Link 16, which will be integrated via H7.0. Funds will be utilized to manage, process, and incorporate digital interoperability ECPs and implement changes to sustain and improve the digital interoperability systems readiness including safety, mission availability, system employment, and component reliability, maintainability, and obsolescence conditions as these emerging deficiencies arise and require modification. This funding will ensure that software is upgraded and integrated to ensure the LINK 16 capabilities are integrated with aircraft OFPs. Support costs required for Link 16 Crypto Modernization upgrade do not correlate significantly with the quantity or unit cost of kits procured. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Support equipment procurement/upgrades/support and trainer upgrades began in FY17 for Link 16 and OFP ECPs, carrying through FY18 and Link 16 fielding. Installation of kits follows in FY18, followed by ECP and logistics element updates through the FYDP associated to the H7.0 ECP, which is required to integrate full Link 16 functionality. Crypto Modernization upgrade NRE will begin in FY18, and upgrades will begin in FY19 to meet crypto modernization standards, as well as H7.0 trainer upgrades to incorporate upgraded Link 16 capability.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: AV-8B Night Attack, Day Attack Upgrade, Radar/Reman & TAV-8B				Modification Type: Upgrade					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DIGITAL INTEROPERABILITY (OSIP 014-16)													
A Kits													
Recurring													
1.1.1) ECP-MDC-AV8B-00336 Link 16 - NonOrganic ⁽¹⁷⁾		52 / 2.827	21 / 1.114	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 3.941	
1.1.2) ECP-MDC-AV8B-00336 Link 16 ACNIP Light Plate Mod (Non-Organic) - NonOrganic ⁽¹⁸⁾		128 / 0.178	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	128 / 0.178	
1.1.3) ECP-PMA257-2015-0001 IBU - Organic		100 / 1.312	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 1.312	
Subtotal: Recurring		- / 4.317	- / 1.114	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 5.431	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽¹⁹⁾		- / 3.482	- / 0.529	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.011	
Subtotal: Non-Recurring		- / 3.482	- / 0.529	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.011	
B Kits													
Recurring													
2.1.1) ECP-MDC-AV8B-00336 Link 16 - Organic ⁽²⁰⁾		52 / 0.000	21 / 4.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 4.098	
2.1.2) ECP-TBD Link 16 Crypto Modern Upgrade - Organic ⁽²¹⁾		- / -	- / -	- / -	33 / 0.875	- / -	33 / 0.875	30 / 0.812	13 / 0.352	- / -	- / -	76 / 2.039	
Subtotal: Recurring		- / 0.000	- / 4.098	- / -	- / 0.875	- / -	- / 0.875	- / 0.812	- / 0.352	- / -	- / -	- / 6.137	
Subtotal: DIGITAL INTEROPERABILITY (OSIP 014-16)		332 / 7.799	42 / 5.741	- / -	33 / 0.875	- / -	33 / 0.875	30 / 0.812	13 / 0.352	- / -	- / -	450 / 15.579	
Subtotal: Procurement, All Modification Items		- / 7.799	- / 5.741	- / -	- / 0.875	- / -	- / 0.875	- / 0.812	- / 0.352	- / -	- / -	- / 15.579	
Support (All Modification Items)													
3.1) Data ⁽²²⁾		- / 0.025	- / 0.165	- / 0.016	- / 0.179	- / -	- / 0.179	- / 0.060	- / -	- / -	- / -	- / 0.445	
3.2) Training Equipment ⁽²³⁾		- / -	- / 3.656	- / 1.165	- / 1.233	- / -	- / 1.233	- / 0.128	- / -	- / -	- / -	- / 6.182	
3.3) Support Equipment		- / -	- / 0.583	- / 0.186	- / 0.190	- / -	- / 0.190	- / 0.194	- / 0.198	- / -	- / -	- / 1.351	
3.4) ILS ⁽²⁴⁾		- / 0.665	- / 0.937	- / 0.675	- / 0.413	- / -	- / 0.413	- / 0.287	- / 0.293	- / -	- / -	- / 3.270	
3.5) Other Support ⁽²⁵⁾		- / 0.653	- / 1.426	- / 0.854	- / 0.633	- / -	- / 0.633	- / 0.591	- / 0.602	- / -	- / -	- / 4.759	
Subtotal: Support		- / 1.343	- / 6.767	- / 2.896	- / 2.648	- / -	- / 2.648	- / 1.260	- / 1.093	- / -	- / -	- / 16.007	
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: AV-8B Night Attack, Day Attack Upgrade, Radar/Reman & TAV-8B				Modification Type: Upgrade					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Modification Item 1 of 1: DIGITAL INTEROPERABILITY (OSIP 014-16)	- / 0.000	- / 0.000	- / 4.632	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 4.632	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 4.632	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.632	
Total													
Total Cost (Procurement + Support + Installation)	9.142	12.508	7.528	3.523	0.000	3.523	2.072	1.445	0.000	0.000	0.000	36.218	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series				Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: DIGITAL INTEROPERABILITY (OSIP 014-16)												
Manufacturer Information												
Manufacturer Name: Boeing - Link 16 ⁽²⁶⁾							Manufacturer Location: Various					
Administrative Leadtime <i>(in Months)</i> : 4							Production Leadtime <i>(in Months)</i> : 10					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Jan 2017											
Delivery Dates	Nov 2017											
Manufacturer Name: Various - IBU							Manufacturer Location: Various					
Administrative Leadtime <i>(in Months)</i> : 4							Production Leadtime <i>(in Months)</i> : 3					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Contractor Field Mod Team:: Installation Name: Link 16 & Link 16 ACNIP Light Plate												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	- / -	- / -	125 / 3.309	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	125 / 3.309
FY 2017	- / -	- / -	21 / 1.323	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	21 / 1.323
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	146 / 4.632	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	146 / 4.632

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Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0514 / AV-8 Series										Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)											
ID Code (A=Service Ready, B=Not Service Ready) :														MDAP/MAIS Code:																	
Modification Item 1 of 1: DIGITAL INTEROPERABILITY (OSIP 014-16)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: Link 16 & Link 16 ACNIP Light Plate																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	37	36	36	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146
Out	-	-	-	-	-	37	36	36	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146
Method of Implementation (Organic): ECP-PMA257-2015-0001 IBU																						Installation Quantity: 100									
Method of Implementation (Organic): ECP-MDC-AV8B-00336 Link 16 - Not Installed																						Installation Quantity: 73									
Method of Implementation (Organic): ECP-TBD Link 16 Crypto Modern Upgrade - Not Installed																						Installation Quantity: 76									
Footnotes: (17) ECP-MDC-AV8B-00336 Link 16 A Kits: All 73 Link 16 kits will be installed at the D-level. Procurement shifted left into FY16 to align with B kits funded with BTR (Issue 64760). (18) ECP-TBD Link 16 ACNIP Light Plate Mod (Non-Organic): 73 ACNIP Light Plate Kits will be installed at the D-Level and 55 ACNIP Light Plate Kits will be installed at the I-Level. (19) Installation Kits N/R: An additional \$0.128M was awarded on Link 16 NRE contract with FY16 funding received via BTR (Issue 64760). (20) ECP-MDC-AV8B-00336 Link 16 B Kits: Qty 52 B Kits were procured with \$11.122M of FY16 funding received via BTR (Issue 64760). (21) ECP-TBD Link 16 Crypto Modern Upgrade in accordance with NSA mandated requirement. (22) Data: Increase in FY19 due to publication updates required for H7.0 ECP that will enable Link 16 upgrade for full functionality. (23) Training Equipment: Increase in FY19 due to the requirement to update the aircrew and maintenance trainers to H7.0 software configuration, which implements Link 16 full functionality with expanded messages. The ECPs that make up this OSIP are varying degrees of complexity with regards to trainer updates, and each ECP is not at the same state each year. (24) ILS: ILS costs required for Link 16 Crypto Modernization upgrade do not significantly fluctuate based on the quantity or unit cost of kits procured. (25) Other Support: Other Support costs required for Link 16 Crypto Modernization upgrade do not significantly fluctuate based on the quantity or unit cost of kits procured. (26) Contract and delivery dates are not provided due to the compilation of various ECPs, which compose the install schedule and have different individual contract and delivery dates, as publications affected and training required are not correlated to unit price.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series						Modification Number / Title: 5 / INACTIVE OSIPS		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	481.793	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	481.793
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	481.793	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	481.793
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	481.793	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	481.793
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 5 / INACTIVE OSIPS			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> N/A													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>1.1) Inactive Osips</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													
481.793 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 481.793													

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0514 / AV-8 Series			Modification Number / Title: 5 / INACTIVE OSIPS	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A					Manufacturer Location: N/A		
Administrative Leadtime (in Months):					Production Leadtime (in Months):		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0522 / Adversary					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	62.778	5.191	2.565	14.606	0.000	14.606	3.420	3.518	3.559	3.649	1.323	100.609
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	62.778	5.191	2.565	14.606	0.000	14.606	3.420	3.518	3.559	3.649	1.323	100.609
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	62.778	5.191	2.565	14.606	0.000	14.606	3.420	3.518	3.559	3.649	1.323	100.609
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds the modifications to the Adversary aircraft. The Adversary aircraft are a combination of 43 F-5 Tiger IIs (40 F-5Ns and 3 F-5Fs), and Block 15 F-16 Fighting Falcon (10 F-16As and 4 F-16Bs), and the J85 Engine supporting the F-5F/N. The Adversary aircraft provide essential sorties in support of TOPGUN, Fleet Replacement Squadron, Carrier Strike Group, Carrier Air Wing and Unit Deployment Plan training. Both the F-5s and the F-16s are planned to be used as primary Adversary mission through 2025.												
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023		
NR	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	5.191	2.565	14.606	-	14.606	3.420	3.518	3.559	3.649		
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	5.191	2.565	14.606	-	14.606	3.420	3.518	3.559	3.649		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0522 / Adversary				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13) (Safety/Reliability)				- / 10.902	- / 4.839	- / 1.855	- / 3.416	- / 0.000	- / 3.416
P-3a	2 / F-5 System Safety and Sustainability OSIP 017-17 (Safety/Reliability)				- / 0.000	- / 0.352	- / 0.710	- / 11.190	- / 0.000	- / 11.190
P-3a	3 / Inactive OSIPs (TBD)				- / 51.876	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 62.778	- / 5.191	- / 2.565	- / 14.606	- / 0.000	- / 14.606
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13) (Safety/Reliability)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 21.012
P-3a	2 / F-5 System Safety and Sustainability OSIP 017-17 (Safety/Reliability)				- / 3.420	- / 3.518	- / 3.559	- / 3.649	- / 1.323	- / 27.721
P-3a	3 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 51.876
P-40	Total Gross/Weapon System Cost				- / 3.420	- / 3.518	- / 3.559	- / 3.649	- / 1.323	- / 100.609
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The FY 2019 funding request is increased by \$10.671M to reflect the Department of Navy's effort address requirement changes and accelerate delivery of critical products delivered under OSIP 017-17.										

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0522 / Adversary					Modification Number / Title: 1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10.902	4.839	1.855	3.416	0.000	3.416	0.000	0.000	0.000	0.000	0.000	21.012
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	10.902	4.839	1.855	3.416	0.000	3.416	0.000	0.000	0.000	0.000	0.000	21.012
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10.902	4.839	1.855	3.416	0.000	3.416	0.000	0.000	0.000	0.000	0.000	21.012
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This OSIP incorporates the Falcon Up structural enhancement modification in 10 Navy F-16A Adversary aircraft. The Falcon Up modification is a safety modification that replaces known airframe fatigue sensitive structure. Incorporation of the Falcon Up kit extends the airframe service life from 3,665 flight hours to 4,250 flight hours and will extend the service life until approximately 2025. Development Status/major milestones: The structural components on the Falcon Up kit have been qualified by the Air Force and approved for Navy use. No operational testing is required. A first article test, consisting of nondestructive critical measurements is complete. A firm fixed price contract for kits have been awarded. The kits are in production and delivering on time. The aircraft modification is done as a heel to toe drive in mod at Hill Air Force Depot and are on-going following the modification schedule.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary						Modification Number / Title: 1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F-16 ADVERSARY SERIES				Modification Type: Safety/Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Structural Enhancement Program - Reserve Forces (OSIP 009-13)													
A Kits													
Recurring													
1.1.1) Falcon UP Kits - NonOrganic ⁽¹⁾	4 / 3.083	3 / 0.120	2 / 0.080	1 / 0.040	- / -	1 / 0.040	- / -	- / -	- / -	- / -	- / -	10 / 3.323	
<i>Subtotal: Recurring</i>	- / 3.083	- / 0.120	- / 0.080	- / 0.040	- / -	- / 0.040	- / -	- / -	- / -	- / -	- / 0.000	- / 3.323	
Non-Recurring													
1.2.2) Non Recurring Engineering - Organic	- / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	
<i>Subtotal: Non-Recurring</i>	- / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.200	
<i>Subtotal: Structural Enhancement Program - Reserve Forces (OSIP 009-13)</i>	4 / 4.283	3 / 0.120	2 / 0.080	1 / 0.040	- / -	1 / 0.040	- / -	- / -	- / -	- / -	- / -	10 / 4.523	
<i>Subtotal: Procurement, All Modification Items</i>	- / 4.283	- / 0.120	- / 0.080	- / 0.040	- / -	- / 0.040	- / -	- / -	- / -	- / -	- / 0.000	- / 4.523	
Support (All Modification Items)													
3.1) Other Support	- / 0.619	- / 0.219	- / 0.225	- / 0.192	- / -	- / 0.192	- / -	- / -	- / -	- / -	- / -	- / 1.255	
<i>Subtotal: Support</i>	- / 0.619	- / 0.219	- / 0.225	- / 0.192	- / -	- / 0.192	- / -	- / -	- / -	- / -	- / 0.000	- / 1.255	
Installation													
Modification Item 1 of 1: Structural Enhancement Program - Reserve Forces (OSIP 009-13)	- / 6.000	- / 4.500	- / 1.550	- / 3.184	- / 0.000	- / 3.184	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 15.234	
<i>Subtotal: Installation</i>	- / 6.000	- / 4.500	- / 1.550	- / 3.184	- / -	- / 3.184	- / -	- / -	- / -	- / -	- / 0.000	- / 15.234	
Total													
Total Cost (Procurement + Support + Installation)	10.902	4.839	1.855	3.416	0.000	3.416	0.000	0.000	0.000	0.000	0.000	21.012	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0522 / Adversary										Modification Number / Title: 1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Structural Enhancement Program - Reserve Forces (OSIP 009-13)																															
Manufacturer Information																															
Manufacturer Name: ES3															Manufacturer Location: Ogden Utah																
Administrative Leadtime <i>(in Months)</i> : 2															Production Leadtime <i>(in Months)</i> : 3																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Nov 2016				Nov 2017				Nov 2018																					
Delivery Dates		Feb 2017				Feb 2018				Feb 2019																					
Installation Information																															
Method of Implementation: Organic Maintenance Facility Hill Air Force Depot:: Installation Name: Falcon UP Kits																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>								
Prior Years		4 / 6.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		4 / 6.000							
FY 2017		- / -		3 / 4.500		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		3 / 4.500							
FY 2018		- / -		- / -		1 / 1.550		1 / 1.592		0 / 0.000		1 / 1.592		- / -		- / -		- / -		- / -		0 / 0.000		2 / 3.142							
FY 2019		- / -		- / -		- / -		1 / 1.592		0 / 0.000		1 / 1.592		- / -		- / -		- / -		- / -		0 / 0.000		1 / 1.592							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		4 / 6.000		3 / 4.500		1 / 1.550		2 / 3.184		0 / 0.000		2 / 3.184		- / -		- / -		- / -		- / -		0 / 0.000		10 / 15.234							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	-	-	1	2	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	4	-	-	-	1	1	1	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Footnotes: ⁽¹⁾ (1) FY17 execution year changes were implemented to avoid a production break in FY2018 and included procurement of 1 additional FY2017 kit and 1 additional installation. Install cost increase in FY2018 and FY2019 due to increased projections in over and above work bases on actual expenditures on the first installation. (2) The second kit from FY2018 procurement will be installed in the following year to avoid production line break.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary				Modification Number / Title: 2 / F-5 System Safety and Sustainability OSIP 017-17				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.352	0.710	11.190	0.000	11.190	3.420	3.518	3.559	3.649	1.323	27.721
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.352	0.710	11.190	0.000	11.190	3.420	3.518	3.559	3.649	1.323	27.721
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.352	0.710	11.190	0.000	11.190	3.420	3.518	3.559	3.649	1.323	27.721
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Funds will be utilized to manage, process and incorporate Engineering Change Proposals (ECPs) and implement changes to sustain and improve F-5 weapons system readiness including safety, mission availability, structural integrity, weapon system employment, and component (avionics/systems) reliability, maintainability, and obsolescence conditions. Current planned initiatives include: - Obsolescence ECPs to the Stability Augmentation Control Assembly (SACA). - Upgrades to the LN-260 display. - Air Data Computer - Support Equipment - Communication upgrade replacing existing Swiss unique radio with an integrated ARC 210 radio. Increase of \$10.671M in FY2019 provides the following: 1) Prior budget submit had a reduced scope for the SACA project(redesign of two circuit cards and procurement of those cards). Increasing the scope of the effort needed to resolve reliability issue experience by the fleet. Project increased to upgrade all circuit cards and procure inventory objective of the new design. 2) Accelerates the procurement of a new LN 260 display. Prior budget submit had design/qualification NRE over FY2019 & FY2020 and with production procurement in FY2020 & FY2021 solely due to affordability. The additional FY2019 funding allows a single contract for the NRE and production of this modified COTS display. The estimates for the NRE and production costs have increased due to better fidelity in the estimate as this display also acts as the bus controller. 3) Accelerates the incorporation of new communication equipment by 12 months. The additional funds start and complete the ARC 210 retrofit one year earlier and provide a better execution profile both for procurement and installation. Changes to the kit and install cost elements but overall total project cost is a reduction.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary				Modification Number / Title: 2 / F-5 System Safety and Sustainability OSIP 017-17					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-5 Adversary Series			Modification Type: Safety/Reliability					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: F-5 System Safety and Sustainability OSIP 017-17													
A Kits													
Recurring													
1.1.1) A Kits ARC-210 Radio - Organic ⁽²⁾		- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.160	12 / 0.248	12 / 0.255	11 / 0.240	- / -	43 / 0.903
Subtotal: Recurring		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.160	- / 0.248	- / 0.255	- / 0.240	- / 0.000	- / 0.903
B Kits													
Recurring													
2.1.1) B Kits ARC-210 - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.120	12 / 1.731	12 / 1.783	11 / 1.683	- / -	43 / 6.317
2.1.2) LN 260 Display - Organic ⁽³⁾		- / -	- / -	- / -	46 / 3.500	- / -	46 / 3.500	- / -	- / -	- / -	- / -	- / -	46 / 3.500
2.1.3) SACA - Organic ⁽⁴⁾		- / -	- / -	- / -	43 / 2.990	- / -	43 / 2.990	- / -	- / -	- / -	- / -	- / -	43 / 2.990
Subtotal: Recurring		- / 0.000	- / -	- / -	- / 6.490	- / -	- / 6.490	- / 1.120	- / 1.731	- / 1.783	- / 1.683	- / 0.000	- / 12.807
Non-Recurring													
2.2.1) Obsolesence - SACA - Organic		- / -	- / 0.352	- / 0.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.062
2.2.2) LN 260 Display Replacement - NonOrganic ⁽⁵⁾		- / -	- / -	- / -	- / 1.750	- / -	- / 1.750	- / -	- / -	- / -	- / -	- / -	- / 1.750
2.2.3) ARC 210 Radio - Organic		- / -	- / -	- / -	- / 2.550	- / -	- / 2.550	- / -	- / -	- / -	- / -	- / -	- / 2.550
Subtotal: Non-Recurring		- / 0.000	- / 0.352	- / 0.710	- / 4.300	- / -	- / 4.300	- / -	- / -	- / -	- / -	- / 0.000	- / 5.362
Subtotal: F-5 System Safety and Sustainability OSIP 017-17		- / -	- / 0.352	- / 0.710	89 / 10.790	- / -	89 / 10.790	16 / 1.280	24 / 1.979	24 / 2.038	22 / 1.923	- / -	175 / 19.072
Subtotal: Procurement, All Modification Items		- / 0.000	- / 0.352	- / 0.710	- / 10.790	- / -	- / 10.790	- / 1.280	- / 1.979	- / 2.038	- / 1.923	- / 0.000	- / 19.072
Support (All Modification Items)													
3.1) Other Support		- / -	- / -	- / -	- / 0.215	- / -	- / 0.215	- / 0.220	- / 0.220	- / 0.161	- / 0.149	- / -	- / 0.965
3.2) ILS		- / -	- / -	- / -	- / 0.185	- / -	- / 0.185	- / 0.375	- / 0.309	- / -	- / -	- / -	- / 0.869
Subtotal: Support		- / 0.000	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.595	- / 0.529	- / 0.161	- / 0.149	- / 0.000	- / 1.834
Installation													
Modification Item 1 of 1: F-5 System Safety and Sustainability OSIP 017-17		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.880	- / 1.360	- / 1.284	- / 1.323	- / 4.847
Subtotal: Installation		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.880	- / 1.360	- / 1.284	- / 1.323	- / 4.847
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary						Modification Number / Title: 2 / F-5 System Safety and Sustainability OSIP 017-17			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F-5 Adversary Series				Modification Type: Safety/Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total Cost (Procurement + Support + Installation)	0.000	0.352	0.710	11.190	0.000	11.190	3.420	3.518	3.559	3.649	1.323	27.721	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0522 / Adversary										Modification Number / Title: 2 / F-5 System Safety and Sustainability OSIP 017-17													
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																		
Modification Item 1 of 1: F-5 System Safety and Sustainability OSIP 017-17																																	
Manufacturer Information																																	
Manufacturer Name: TBD - ARC 210 Radio															Manufacturer Location: TBD																		
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 9																		
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023							
Contract Dates														Jan 2020				Jan 2021				Jan 2022				Jan 2023							
Delivery Dates														Dec 2020				Dec 2021				Dec 2022				Dec 2023							
Installation Information																																	
Method of Implementation: [none specified]:: Installation Name: B Kits ARC-210																																	
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total									
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)									
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / 0.880		- / -		- / -		0 / 0.000		8 / 0.880							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		12 / 1.360		- / -		0 / 0.000		12 / 1.360							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		12 / 1.284		0 / 0.000		12 / 1.284							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		11 / 1.323		11 / 1.323							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / 0.880		12 / 1.360		12 / 1.284		11 / 1.323		43 / 4.847							
Installation Schedule																																	
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	3	3	3	3	3	3	3	3	11	43		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	3	3	3	3	3	3	3	14	43		
Method of Implementation (Organic): A Kits ARC-210 Radio - Not Installed																														Installation Quantity: 43			
Method of Implementation (Organic): LN 260 Display - Not Installed																														Installation Quantity: 46			

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 2 / F-5 System Safety and Sustainability OSIP 017-17
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: F-5 System Safety and Sustainability OSIP 017-17		
Installation Information		
Method of Implementation (Organic): SACA - Not Installed		Installation Quantity: 43
Footnotes: (2) ARC 210 installation will be by depot level field mod team installation (3) Forty F-5N aircraft have one display, and three F-5F aircraft have 2 displays each (40 + 6 = 46 units) (4) SACA is a squadron level install (5) LN 260 display is a squadron level install		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary						Modification Number / Title: 3 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	51.876	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.876
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	51.876	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.876
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	51.876	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.876
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary						Modification Number / Title: 3 / Inactive OSIPs			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
B Kits													
Non-Recurring													
1.1.1) Inactive OSIPs - Organic	- / 51.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.876	
<i>Subtotal: Non-Recurring</i>	- / 51.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 51.876	
<i>Subtotal: Inactive OSIPs</i>	- / 51.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.876	
<i>Subtotal: Procurement, All Modification Items</i>	- / 51.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 51.876	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	51.876	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.876	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 3 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0525 / F-18 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 000												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8,217.716	999.424	943.661	1,213.482	0.000	1,213.482	1,350.530	1,364.484	1,360.496	1,714.989	7,939.984	25,104.766
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8,217.716	999.424	943.661	1,213.482	0.000	1,213.482	1,350.530	1,364.484	1,360.496	1,714.989	7,939.984	25,104.766
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8,217.716	999.424	943.661	1,213.482	0.000	1,213.482	1,350.530	1,364.484	1,360.496	1,714.989	7,939.984	25,104.766
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modifications to all models of the F/A-18 aircraft. The F/A-18 Naval Strike Fighter is a twin-engine, mid-wing, multi-mission tactical aircraft. The F/A-18 is employed in both Navy and Marine Corps squadrons. Commencing with the FY 1988 procurement, both the single seat and two-seat F/A-18s include a night attack capability. The F/A-18 can be missionized through selected use of external equipment to accomplish specific fighter or attack missions. This commonality provides the Operational Commander more flexibility in employing tactical aircraft in a dynamic scenario. The primary design mission for the F/A-18 is a strike fighter which includes the traditional fighter applications, such as fighter escort and fleet air defense, combined with the attack applications, such as interdiction and close air support. Since fighter capabilities are available in either mission, a robust self-defense capability is retained. NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog. Funds in this budget request are required for on-going modifications to address OOR aircraft. Current aircraft inventory as of 1 January 2018, Flight hours flown as of 1 October 2017: F/A-18A (Lots 7 - 9) - 78 (34 Active, 44 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining 179 hours (current); 2,179 hours (extended) F/A-18B (Lots 1 - 6) -7 (5 Active, 2 Reserve): service life 6,000 hours (current); average service life remaining 2,082 (current) F/A-18B (Lots 7 - 9) - 7 (5 Active, 2 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining 741 (current); 2,741 (extended) F/A-18C - 333 (326 Active, 7 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining 545 (current); 2,545 (extended) F/A-18D - 125 (Active): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining 646 (current); 2,646 (extended) F/A-18E - 284 (Active): service life 6,000 hours (current); 9,000 hours (extended); average service life remaining 3,207 (current); 6,207 (extended) F/A-18F - 257 (Active): service life 6,000 hours (current); 9,000 hours (extended); average service life remaining 2,454 (current); 5,454 (extended) EA-18G - 155 (150 Active, 5 Reserve): service life 7,500 hours (current); average service life remaining 6,123 (current)												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0525 / F-18 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: 000										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Correction of Discrepancies (OSIP 11-84) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 1,249.037	- / 73.173	- / 78.272	- / 66.782	- / 0.000	- / 66.782
P-3a	2 / Digital Communications System (DCS) (OSIP 10-99) (CAPABILITY IMPROVEMENT)				- / 129.839	- / 28.260	- / 11.903	- / 33.507	- / 0.000	- / 33.507
P-3a	3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+ (SAFETY / LIFE EXTENSION)				- / 1,181.821	- / 63.784	- / 127.210	- / 139.640	- / 0.000	- / 139.640
P-3a	4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99) (CAPABILITY IMPROVEMENT)				- / 645.753	- / 53.435	- / 53.349	- / 52.745	- / 0.000	- / 52.745
P-3a	5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00) (AVIONICS UPGRADE)				- / 382.200	- / 66.901	- / 10.043	- / 0.000	- / 0.000	- / 0.000
P-3a	6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00) (CAPABILITY IMPROVEMENT)				- / 296.757	- / 4.042	- / 3.903	- / 3.405	- / 0.000	- / 3.405
P-3a	7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01) (CAPABILITY IMPROVEMENTS)				- / 929.526	- / 2.202	- / 2.850	- / 1.836	- / 0.000	- / 1.836
P-3a	8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02) (TRAINERS UPGRADE)				- / 228.699	- / 31.626	- / 21.428	- / 34.722	- / 0.000	- / 34.722
P-3a	9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 570.118	- / 149.947	- / 124.794	- / 140.042	- / 0.000	- / 140.042
P-3a	10 / Core Avionics Improvements / Upgrades (OSIP 023-04) (Capability and Reliability Improvements)				- / 351.480	- / 84.277	- / 68.897	- / 71.068	- / 0.000	- / 71.068
P-3a	11 / Litening AT Targeting Pod (OSIP 024-04) (CAPABILITY IMPROVEMENTS)				- / 164.729	- / 1.219	- / 1.113	- / 0.324	- / 0.000	- / 0.324
P-3a	12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07) (AVIONICS UPGRADE)				- / 942.463	- / 219.347	- / 130.400	- / 165.683	- / 0.000	- / 165.683
P-3a	13 / EW Unique (OSIP 021-08) (Capability Improvements)				- / 219.604	- / 15.275	- / 49.040	- / 41.302	- / 0.000	- / 41.302
P-3a	14 / Network Centric Operations: (OSIP 001-10) (Avionics Upgrade)				- / 212.370	- / 43.468	- / 32.505	- / 25.165	- / 0.000	- / 25.165
P-3a	15 / EA-18G Unique OSIP (011-10) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 104.581	- / 31.077	- / 34.804	- / 46.905	- / 0.000	- / 46.905
P-3a	16 / Power and Propulsion (11-13) (Safety, Readiness, Reliability)				- / 50.480	- / 34.326	- / 47.346	- / 68.212	- / 0.000	- / 68.212
P-3a	17 / Infrared Search and Track (IRST) (04-14) (CAPABILITY IMPROVEMENTS)				- / 154.888	- / 2.478	- / 3.655	- / 86.595	- / 0.000	- / 86.595
P-3a	18 / Automated Information Systems (AIS) (OSIP 018-14) (Safety)				- / 94.629	- / 32.042	- / 44.189	- / 54.651	- / 0.000	- / 54.651
P-3a	19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14) (SAFETY / LIFE EXTENSION)				- / 34.766	- / 45.252	- / 87.424	- / 137.254	- / 0.000	- / 137.254
P-3a	20 / Priority Stores Integration (OSIP 10-16) (CAPABILITY IMPROVEMENT)				- / 8.567	- / 17.293	- / 10.536	- / 13.550	- / 0.000	- / 13.550
P-3a	21 / Physiological Episode (PE) Mitigation (OSIP 13-19) (Safety)				- / 0.000	- / 0.000	- / 0.000	- / 30.094	- / 0.000	- / 30.094
P-3a	22 / Inactive OSIPs (TBD)				- / 265.409	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 8,217.716	- / 999.424	- / 943.661	- / 1,213.482	- / 0.000	- / 1,213.482

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0525 / F-18 Series					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A				Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: 000										
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Correction of Discrepancies (OSIP 11-84) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 46.255	- / 46.267	- / 62.593	- / 63.942	- / 274.161	- / 1,960.482
P-3a	2 / Digital Communications System (DCS) (OSIP 10-99) (CAPABILITY IMPROVEMENT)				- / 13.688	- / 12.192	- / 8.009	- / 8.169	- / 28.581	- / 274.148
P-3a	3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+ (SAFETY / LIFE EXTENSION)				- / 101.269	- / 97.588	- / 93.402	- / 95.193	- / 784.042	- / 2,683.949
P-3a	4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99) (CAPABILITY IMPROVEMENT)				- / 62.941	- / 61.360	- / 52.554	- / 53.606	- / 76.401	- / 1,112.144
P-3a	5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00) (AVIONICS UPGRADE)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 459.144
P-3a	6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00) (CAPABILITY IMPROVEMENT)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 308.107
P-3a	7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01) (CAPABILITY IMPROVEMENTS)				- / 10.042	- / 12.950	- / 7.145	- / 45.551	- / 207.758	- / 1,219.860
P-3a	8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02) (TRAINERS UPGRADE)				- / 39.770	- / 40.344	- / 41.070	- / 41.893	- / 384.422	- / 863.974
P-3a	9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 217.884	- / 173.837	- / 170.950	- / 280.411	- / 132.481	- / 1,960.464
P-3a	10 / Core Avionics Improvements / Upgrades (OSIP 023-04) (Capability and Reliability Improvements)				- / 144.272	- / 109.902	- / 112.615	- / 147.148	- / 1,936.920	- / 3,026.579
P-3a	11 / Litening AT Targeting Pod (OSIP 024-04) (CAPABILITY IMPROVEMENTS)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 167.385
P-3a	12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07) (AVIONICS UPGRADE)				- / 181.508	- / 96.375	- / 52.728	- / 120.307	- / 76.783	- / 1,985.594
P-3a	13 / EW Unique (OSIP 021-08) (Capability Improvements)				- / 28.797	- / 34.353	- / 30.860	- / 31.597	- / 82.150	- / 532.978
P-3a	14 / Network Centric Operations: (OSIP 001-10) (Avionics Upgrade)				- / 50.615	- / 37.715	- / 41.431	- / 91.428	- / 10.317	- / 545.014
P-3a	15 / EA-18G Unique OSIP (011-10) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 73.526	- / 94.790	- / 103.558	- / 106.107	- / 185.867	- / 781.215
P-3a	16 / Power and Propulsion (11-13) (Safety, Readiness, Reliability)				- / 60.506	- / 67.740	- / 66.603	- / 67.935	- / 0.000	- / 463.148
P-3a	17 / Infrared Search and Track (IRST) (04-14) (CAPABILITY IMPROVEMENTS)				- / 88.435	- / 181.810	- / 211.698	- / 177.619	- / 448.004	- / 1,355.182
P-3a	18 / Automated Information Systems (AIS) (OSIP 018-14) (Safety)				- / 53.976	- / 54.754	- / 53.837	- / 54.913	- / 106.468	- / 549.459
P-3a	19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14) (SAFETY / LIFE EXTENSION)				- / 137.910	- / 210.756	- / 210.836	- / 296.372	- / 3,134.079	- / 4,294.649
P-3a	20 / Priority Stores Integration (OSIP 10-16) (CAPABILITY IMPROVEMENT)				- / 13.374	- / 15.942	- / 15.676	- / 15.989	- / 26.958	- / 137.885
P-3a	21 / Physiological Episode (PE) Mitigation (OSIP 13-19) (Safety)				- / 25.762	- / 15.809	- / 24.931	- / 16.809	- / 44.592	- / 157.997
P-3a	22 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 265.409
P-40	Total Gross/Weapon System Cost				- / 1,350.530	- / 1,364.484	- / 1,360.496	- / 1,714.989	- / 7,939.984	- / 25,104.766

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0525 / F-18 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.		
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.		
Justification: The overall goal of the modifications budgeted in FY 2019 is to implement commonality/capability and structural safety and reliability improvements. Justifications for the changes in the budget from FY18 to FY19 are as follows: OSIP 11-84 decreases due to divestiture of the US Navy from the F/A-18A-D legacy program, resulting in less Engineering Change Proposal (ECP) quantities being procured. This OSIP addresses F/A-18 A-D aircraft correction of deficiencies discovered during sustainment activities, engineering analysis, standard depot level evaluations, and/or normal fleet operations by implementing ECPs to modify, improve, and restore aircraft structural and sub-systems safety and reliability to designed aircraft life limits. OSIP 10-99 increases due to increased procurement of Gen 5 radios from no procurement in FY18 to a quantity of 275 in FY19. The Gen5 radio is a Crypto Modernized (Embedded COMSEC Module) ARC-210 radio that is a form/fit replacement for RT-1824 DCS radio in currently in the COMM2 position. OSIP 11-99 increases due to the increased installs. This OSIP incorporates aircraft structural and sub-systems modifications that are required to attain required F/A-18A-D service life, and maintain sufficient aircraft inventory to meet fleet operational requirements through FY 2030. OSIP 12-99 decreases due to reduction of MIDS JTRS cable set procurement from a quantity of 165 in FY18 to 105 in FY19, and one-time procurement of ECP-6445 kits in FY18. There is an offsetting increase of E/F/G MIDS JTRS TTNT terminals from 17 in FY18 to 20 in FY19. This OSIP funds MIDS JTRS, which is a 4th Generation LINK 16 terminal. It provides secure, jam-resistant, high throughput digital and data communications that supports positive identification, precise location, situational awareness, sensor to shooter coordination, and reduction of fratricide between U.S. and Allied aircraft, maritime and ground forces. OSIP 21-00 has no funding in FY19 due to completion of ECP-1153 (USMC B+/C+ Upgrade) and cancellation of ECP-634 (USMC HOL Upgrade). This OSIP funded upgrades for USMC F/A-18A/B/C/D aircraft structural and avionics, including hardware and software capabilities, in order to meet mission-critical requirements of the USMC Tactical Aircraft Integration Plan while implementing upgraded cockpit displays and improving flight safety. OSIP 24-00 slightly decreases due to decreased installs from 37 in FY18 to 31 in FY19. This OSIP provides the fleet with JHMCS to cue onboard weapons to the pilot's line of sight including high off boresight weapons. OSIP 12-01 decreases due to reduced software efforts as well as decreased installs. This OSIP funds the ATFLIR Remote Operations Video Enhanced Receiver (ROVER) data link wiring kits which enable the transmission of full motion video from the ATFLIR pod to the ROVER ground stations allowing ground commanders to coordinate directly with the aircrew for non-traditional intelligence, surveillance and reconnaissance missions as well as close air support missions. OSIP 06-02 increases due to additional aircrew trainer modifications. This OSIP funds F/A-18C-F and EA-18G aircrew and maintenance training systems to support software concurrency capabilities to meet current fleet readiness squadron and fleet training and readiness requirements to increase the simulation fidelity of aircraft driven changes implemented across a distributed architecture and simulated threat environment. OSIP 14-03 increases due to additional kit procurements and installs. This OSIP fund modifications required for the Super Hornet and Growler in order to correct aircraft discrepancies and life limited locations required to continue to fly the aircraft to its design life.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0525 / F-18 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
OSIP 23-04 increases due to increased kit procurements. This OSIP funds F/A-18 System Configuration Set mission computer software, and associated Joint Mission Planning System Unique hardware and software updates, retrofit modifications, corrections of fleet discrepancies and associated test verification, and improvements driven by aircraft avionics modifications and fleet requirements. Funding for a Civilian Instrument Landing System capability is also included. It also provides the fleet with multiple upgrades to the Core Avionics systems of FA-18 series aircraft. Modifications include: 24 Port Fiber Channel Network Switch (FCNS) and Advanced Capability Mission Computer (ACMC) for EA-18G that are necessary for Next Generation Jammer (NGJ). OSIP 24-04 decreases due to reduced LITENING installs and associated support costs. OSIP 02-07 increases due to increased procurements of general purpose processor - 3, 5th and 6th channel, and waveform generator kits from 75 kits each procured in FY18 to a quantity of 123 kits each in FY19. This OSIP funds the integration of Counter-Electronic Attack capability for the APG-79 Radar, procures Configuration D Kits to enable CEA capabilities, and funds radar obsolescence mitigations for APG-65/73 and APG-79 radars to improve Fleet Readiness. OSIP 21-08 decreases due to reduced procurement of ALQ-214 kits from 15 in FY18 to 7 in FY19. This OSIP funds ALR-67(V)3 radar warning receiver systems and ALQ-214(V)4/5 self-protection onboard jammer systems - the two major systems comprising the Integrated Defensive Electronic Countermeasures Electronic Warfare suite which detects, identifies and manages electronic countermeasure response to radar threats. OSIP 01-10 decreases due to reduced DTS B-kit procurements from 51 kits in FY18 to 7 in FY19. This OSIP provides the fleet with a common capability that includes Distributed Targeting System (DTS), and Digital Memory Device (DMD) or Digital Transfer Unit (DTU) to support all mission areas and establish common configuration across F-18 Block II aircraft. It also funds Accurate Navigation, which functions as a Global Positioning System/ Inertial Navigation System and provides precision targeting data, improved position, velocity, & time. OSIP 11-10 increases due to initial procurement of kits for ECP-6482 (Airborne Electronic Attack Systems Enhancements) as well as increased software procurements. This OSIP incorporate ECPs, software upgrades, support equipment and other support for increased lethality in the electronic warfare arena; primarily driven by ALQ-218 modifications to better increase emitter detection. OSIP 11-13 increases due to ramp up of the Generator Converter Unit (GCU) program, resulting in increased kit procurements from 233 kits in FY18 to 325 kits in FY19. This OSIP addresses the reliability and maintainability shortfalls of the F/A-18E/F and EA-18G GCU, the top degrader in the fleet, through procurement of GCU upgrade kits that will increase reliability from 109 hours to 285 hours between removals, directly reducing demand and allowing limited repair production capacity to support deployed aircraft. OSIP 04-14 increases due to NRE and procurement of kits for the Infrared Search and Track (IRST) Block II ECP program. This OSIP funds engineering and procurement of Block II pods and related support which will provide an out of band, long range passive detection and track capability as an alternate fire control system in a high threat electronic attack (RADAR denied) environment to support target breakout and weapons quality tracks in both day and night operations. OSIP 18-14 increases due to additional software procurements. The F/A-18 A-F and EA-18G Automated Maintenance Environment (AME) system allows the maintainer to safely perform maintenance on the F-18A-F and EA-18G by using electronic publications, maintenance documentation environment and work stations. The Weaponing, Integrated, Naval Aviation Technical Information Product (NATIP), Naval Air Training and Operating Procedures Standardization (NATOPS) (WINN) system allows the aircrew to safely employ the aircraft and its weapons in a tactical environment by providing the NATOPS (aircraft) and NATIP (weapons) manuals as well as providing the flight clearances required for safe flight operations. OSIP 20-14 increases due to ramp up of the F/A-18E/F service life modifications from three aircraft in FY18 to seven aircraft in FY19. This OSIP fund modifications required to extend the F/A-18E/F service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY2043. OSIP 10-16 increases due to increased software efforts. This OSIP will be used to facilitate priority stores integrations, to include software changes to accommodate AIM-120 advanced medium range air to air missile single carriage on F/A-18E/F midboard station and air worthiness analysis and/or certification to support fleet requests, such as Joint Direct Attack Munition, hot loading, and air launched decoy.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0525 / F-18 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
OSIP 13-19 is established for Physiological Episode Mitigation modifications. These efforts were previously funded under OSIP 14-03 in FY18 and prior. In FY19 and out, the efforts have been realigned to this new OSIP for better visibility. The FY 2019 funding request was reduced by \$11.332M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,249.037	73.173	78.272	66.782	0.000	66.782	46.255	46.267	62.593	63.942	274.161	1,960.482
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,249.037	73.173	78.272	66.782	0.000	66.782	46.255	46.267	62.593	63.942	274.161	1,960.482
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,249.037	73.173	78.272	66.782	0.000	66.782	46.255	46.267	62.593	63.942	274.161	1,960.482
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Corrections to discrepancies found during testing and evaluation can sometimes be incorporated into production aircraft, effective with the physical configuration audit which establishes the product baseline of the aircraft. However, when this cannot be done due to time constraints, retrofit of the changes into already delivered aircraft requires funding through the aircraft modification program. Additionally, aircraft discrepancies can be discovered during sustainment activities, engineering analysis, standard depot level evaluations, and/or during normal fleet operations. Not addressing these structural and system discrepancies will create maintenance and supply problems, and adversely impact safety of flight and operational readiness. This Operational, Safety and Improvement Program (OSIP) provides resources to correct such issues via Engineering Change Proposal (ECP) and other applicable procurement efforts by modifying, improving, and restoring aircraft structural safety and reliability to designed/required life limits. Modifications for the F/A-18 A/B/C/D aircraft include: flight controls, forward fuselage, aft fuselage, wing, critical structures, electrical, hydraulic, Environmental Control Systems (ECS), launch and recovery, fuel, mechanical, secondary power, Blue Angel modifications, and other modification efforts. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Each change has been or will be tested prior to installation into the F/A-18. NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 A/B/C/D			Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)													
A Kits													
Recurring													
1.1.1) ECP 608 Crease Longerons - NonOrganic ⁽¹⁾	76 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 0.000	
1.1.2) ECP 609 Inner Wing Conversion/ Modification - Fuel Improvements - NonOrganic	47 / 0.784	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 0.784	
1.1.3) ECP 609 Inner Wing Conversion/ Modification - NonOrganic	27 / 4.128	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 4.128	
1.1.4) ECP 609C1 Inner Wing Retrofit of Wing Fuel Transfare Manifold - Organic	- / -	116 / 0.134	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	116 / 0.134	
1.1.5) ECP 796 Wing Fuel Dams - NonOrganic ⁽²⁾	515 / 0.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	515 / 0.787	
1.1.6) ECP 973 Fuel Cell Floor Crack - NonOrganic	200 / 2.871	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 2.871	
1.1.7) ECP 1034 NI Trailing Edge Flap (AYC-1460) - NonOrganic	618 / 2.562	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	618 / 2.562	
1.1.8) ECP 1034 NI Aileron Attach Lug Bushing (AYC-1481) - NonOrganic	618 / 1.092	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	618 / 1.092	
1.1.9) ECP 1095 NI F/A-18 A-D MLG Side Brace Downlock Actuator Connecting Link - Organic	- / 0.084	- / -	169 / 1.352	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	169 / 1.436	
1.1.10) ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap Retrofit - NonOrganic	250 / 12.978	70 / 3.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	320 / 16.334	
1.1.11) ECP 1100 F/A-18 A-D Keel Beam Web Retrofit - NonOrganic	189 / 0.159	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	189 / 0.159	
1.1.12) ECP 1101 Inner Wing AFT Closure Rib - NonOrganic	198 / 12.422	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	198 / 12.422	
1.1.13) ECP 1102 Y508 Former Shear Tie Fastener Holes Retrofit - NonOrganic	608 / 1.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	608 / 1.278	
1.1.14) ECP 1118NI F/A-18 A-D Y580.5/Y590.5 Former Replacement Modline - NonOrganic	200 / 14.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 14.429	
1.1.15) ECP 1120NI F/A-18 A-D Upper O/B Longerons Y453/Y508 Fw Section Splice - NonOrganic	170 / 4.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 4.435	
1.1.16) ECP 1121 F/A-18 A-D MLG Critical Components Retrofit - Organic	8 / 51.450	- / -	5 / 0.700	10 / 1.400	- / -	10 / 1.400	- / -	5 / 0.850	30 / 5.100	75 / 13.500	172 / 29.240	305 / 102.240	
1.1.17) ECP 1122 F/A-18 A-D NLG Critical Components Retrofit - Organic	8 / 21.556	- / -	5 / 0.325	10 / 0.650	- / -	10 / 0.650	- / -	5 / 0.350	30 / 2.300	75 / 5.400	172 / 12.384	305 / 42.965	

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 A/B/C/D			Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.18) ECP 1125 F/A-18 A-D Y470 Inner Wing Panel Lug - NonOrganic	184 / 0.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	184 / 0.356	
1.1.19) ECP 1137NI Fire Extinguisher Temp Compensating Pressure Switch - NonOrganic	525 / 0.852	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	525 / 0.852	
1.1.20) ECP 1140NI Aileron Servocylnr Main Ram Linear Var Displacement - Organic	- / -	- / -	20 / 0.105	20 / 0.107	- / -	20 / 0.107	20 / 0.109	20 / 0.111	20 / 0.113	20 / 0.114	350 / 1.995	470 / 2.654	
1.1.21) ECP-1142NI Y326.5 Lead Edge Ext (LEX) Spt Fitting & Substructure - NonOrganic	523 / 1.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	523 / 1.085	
1.1.22) ECP-1142C1NI Y394.2 LEX Connecting Link Retrofit - NonOrganic	607 / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	607 / 0.083	
1.1.23) ECP 1148NI Speed Brake Arresting Hook Actuator Fitting Retrofit - NonOrganic	370 / 3.698	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	370 / 3.698	
1.1.24) ECP-1155 NI Fuel Tank Four Cavity Foam Material Change - NonOrganic	362 / 0.416	- / -	62 / 0.069	41 / 0.050	- / -	41 / 0.050	- / -	- / -	- / -	- / -	- / -	465 / 0.535	
1.1.25) ECP 1155C1 NI Motive Flow Bulkhead Replacement - NonOrganic	133 / 0.976	- / -	- / -	20 / 0.295	- / -	20 / 0.295	20 / 0.301	20 / 0.306	20 / 0.312	20 / 0.320	328 / 5.248	561 / 7.758	
1.1.26) ECP 1159 - Y557.5 Bulkhead Tub Retrofit - NonOrganic	327 / 2.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	327 / 2.525	
1.1.27) ECP 1169 NI Arresting Hook Point Bolt Material Change Retrofit - Organic	- / -	612 / 2.247	20 / 0.403	20 / 0.410	- / -	20 / 0.410	20 / 0.417	20 / 0.425	20 / 0.433	20 / 0.440	492 / 10.824	1,224 / 15.599	
1.1.28) ECP 1176 NI OWP Missile Support Rib Retrofit - NonOrganic	30 / 4.670	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.189	15 / 1.211	15 / 1.215	303 / 24.543	378 / 32.828	
1.1.29) ECP 1186 NI NLG Uplock Dash Number & Serialization - Organic	- / -	- / -	20 / 0.138	20 / 0.140	- / -	20 / 0.140	20 / 0.143	20 / 0.145	20 / 0.148	20 / 0.150	449 / 3.367	569 / 4.231	
1.1.30) ECP 6217 Cockpit Pressurization Warning System - NonOrganic	630 / 8.583	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	630 / 8.583	
1.1.31) ECP 6321R1 F/A-18 A-D Main Landing Gear Door Hinge Pins - NonOrganic	640 / 1.265	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	640 / 1.265	
1.1.32) ECP 6495: Servocylnr Test Station Obsolescence Upgrade - Organic	- / -	- / -	- / -	1 / 0.250	- / -	1 / 0.250	1 / 0.250	1 / 0.250	1 / 0.250	1 / 0.250	20 / 5.000	25 / 6.250	
1.1.33) ECP JAX F-18-001 NFDS mods, C&D Conversion (Blue Angels) - NonOrganic	20 / 8.381	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 8.381	
1.1.34) ECP XXX26 Structural Stress Corrosion Crack Issues - NonOrganic	- / -	- / -	20 / 1.117	20 / 1.137	- / -	20 / 1.137	- / -	20 / 1.179	40 / 2.400	20 / 1.240	355 / 22.365	475 / 29.438	
1.1.35) ECP XXX27 F/A-18 A-D Subsystems Retrofit Upgrades Issues - NonOrganic	- / -	- / -	20 / 0.894	20 / 0.910	- / -	20 / 0.910	- / -	20 / 0.943	20 / 0.960	20 / 0.980	375 / 17.750	475 / 22.437	
1.1.36) ECP XXX28 F/A-18 A-D ECS Subsystems Upgrade Issues - NonOrganic	- / -	- / -	20 / 0.548	20 / 0.558	- / -	20 / 0.558	20 / 0.568	20 / 0.578	20 / 0.588	20 / 0.600	355 / 10.650	475 / 14.090	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18 A/B/C/D				Modification Type: SAFETY /RELIABILITY/IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.37) ECP XXX29 F/A-18 A-D Fuel Related Upgrade Issues - Organic	- / -	- / -	20 / 0.219	20 / 0.223	- / -	20 / 0.223	20 / 0.227	20 / 0.231	20 / 0.235	20 / 0.240	355 / 4.491	475 / 5.866	
1.1.38) ECP-XXX30 F/A-18 A-D Flight Control Surfaces Issues - NonOrganic	- / -	- / -	20 / 0.223	20 / 0.227	- / -	20 / 0.227	20 / 0.232	20 / 0.236	20 / 0.240	20 / 0.260	355 / 4.615	475 / 6.033	
1.1.39) ECP-XXX33 - F/A-18 A-D NACES Retrofit Upgrades - Organic ⁽³⁾	- / -	- / -	20 / 0.272	20 / 0.276	- / -	20 / 0.276	20 / 0.281	20 / 0.287	20 / 0.292	20 / 0.320	480 / 7.423	600 / 9.151	
1.1.40) ECP-9557MB NACES UPGRADE - Organic	- / -	- / -	- / -	350 / 2.500	- / -	350 / 2.500	- / -	- / -	- / -	- / -	- / -	350 / 2.500	
1.1.41) Archived ECPs - Organic	- / 230.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 230.203	
Subtotal: Recurring	- / 394.108	- / 5.737	- / 6.365	- / 9.133	- / -	- / 9.133	- / 2.528	- / 7.080	- / 14.582	- / 25.029	- / 159.895	- / 624.457	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 71.144	- / 4.586	- / 6.121	- / 3.544	- / -	- / 3.544	- / -	- / -	- / 4.635	- / 4.714	- / 3.249	- / 97.993	
Subtotal: Non-Recurring	- / 71.144	- / 4.586	- / 6.121	- / 3.544	- / -	- / 3.544	- / -	- / -	- / 4.635	- / 4.714	- / 3.249	- / 97.993	
B Kits													
Recurring													
2.1.1) Installation Equipment - Organic	- / 2.267	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.267	
Subtotal: Recurring	- / 2.267	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.267	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.120	
Subtotal: Non-Recurring	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.120	
Subtotal: Correction of Discrepancies (OSIP 11-84)	8,083 / 467.639	798 / 10.323	421 / 12.486	612 / 12.677	- / -	612 / 12.677	161 / 2.528	226 / 7.080	296 / 19.217	366 / 29.743	4,561 / 163.144	15,524 / 724.837	
Subtotal: Procurement, All Modification Items	- / 467.639	- / 10.323	- / 12.486	- / 12.677	- / -	- / 12.677	- / 2.528	- / 7.080	- / 19.217	- / 29.743	- / 163.144	- / 724.837	
Support (All Modification Items)													
3.2) Data	- / 16.383	- / 0.203	- / 0.100	- / 0.102	- / -	- / 0.102	- / 0.103	- / 0.105	- / 0.107	- / 0.108	- / 0.110	- / 17.321	
3.4) Support Equipment	- / 23.542	- / 8.922	- / 9.082	- / 6.746	- / -	- / 6.746	- / 2.354	- / 2.691	- / 2.834	- / 2.885	- / 2.937	- / 61.993	
3.5) ILS	- / 374.265	- / 6.556	- / 5.785	- / 5.889	- / -	- / 5.889	- / 4.695	- / 4.685	- / 5.077	- / 5.270	- / 5.365	- / 417.587	
3.6) Other Support	- / 193.562	- / 16.869	- / 17.173	- / 17.483	- / -	- / 17.483	- / 16.418	- / 16.426	- / 16.205	- / 16.685	- / 16.990	- / 227.811	
3.8) Prior Year Installation Costs	36,016 / 226.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36,016 / 226.255	
Subtotal: Support	- / 734.007	- / 32.550	- / 32.140	- / 30.220	- / -	- / 30.220	- / 23.570	- / 23.907	- / 24.223	- / 24.948	- / 25.402	- / 950.967	
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 A/B/C/D				Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)	- / 47.391	- / 30.300	- / 33.646	- / 23.885	- / 0.000	- / 23.885	- / 20.157	- / 12.467	- / 12.808	- / 9.251	- / 85.615	- / 275.520
Subtotal: Installation	- / 47.391	- / 30.300	- / 33.646	- / 23.885	- / -	- / 23.885	- / 20.157	- / 12.467	- / 12.808	- / 9.251	- / 85.615	- / 275.520
Total												
Total Cost (Procurement + Support + Installation)	1,249.037	73.173	78.272	66.782	0.000	66.782	46.255	46.267	62.593	63.942	274.161	1,960.482

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)							
Manufacturer Information							
Manufacturer Name: CKA/Northrop Grumman (NGC) - ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap					Manufacturer Location: Orange Park, FL; El Segundo, CA		
Administrative Leadtime (<i>in Months</i>): 10					Production Leadtime (<i>in Months</i>): 20		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jul 2017	Jul 2018	Jul 2019	Jul 2020	Jul 2021	Jul 2022	
Delivery Dates	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023	Mar 2024	
Manufacturer Name: CKA/NGC- ECP 1120NI Upper O/B Longerons Y453/Y508 Forward Section Splice					Manufacturer Location: Orange Park, FL; El Segundo, CA		
Administrative Leadtime (<i>in Months</i>): 10					Production Leadtime (<i>in Months</i>): 36		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: ECP 1034 NI Trailing Edge Flap (AYC-1460)					Manufacturer Location: North Island, CA		
Administrative Leadtime (<i>in Months</i>): 1					Production Leadtime (<i>in Months</i>): 8		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA- ECP 1100/F/A-18 A-D Keel Beam Web Retrofit					Manufacturer Location: Orange Park, FL		
Administrative Leadtime (<i>in Months</i>): 1					Production Leadtime (<i>in Months</i>): 12		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP 1101/INNER WING AFT CLOSURE RIB					Manufacturer Location: Orange Park, FL		
Administrative Leadtime (<i>in Months</i>): 1					Production Leadtime (<i>in Months</i>): 24		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP 1125 F/A-18 A-D Y470 Inner Wing Panel Lug					Manufacturer Location: Orange Park, FL		
Administrative Leadtime (<i>in Months</i>): 1					Production Leadtime (<i>in Months</i>): 18		

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP 6321R1 F/A-18 A-D MLG Doors Hing Pins Hdw Conv				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA/NGC - ECP 1148NI Speed Brake Arresting Hook Actuator Fitting				Manufacturer Location: Orange Park, FL; El Segundo, CA			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 609 Inner Wing Conversion/ Modification				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: ECP 1034 NI Aileron Attach Lug Bushing (AYC-1481)				Manufacturer Location: North Island, CA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 609 Inner Wing Conversion/ Modification - Fuel Improvements				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 6217/Cockpit Pressurization Warning System (CPWS)				Manufacturer Location: St. Louis, MO			

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)							
Manufacturer Information							
Administrative Leadtime (<i>in Months</i>): 9				Production Leadtime (<i>in Months</i>): 22			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA- ECP 1102/F/A-18 A-D Y508 Former Shear Tie Fastener Holes Retrofit				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP JAX F-18-001/NFDS MODS, C&D Conversion				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Meggitt - ECP 1137/Redesign of Fire Extinguisher Temp. Compensating Pressure Switch				Manufacturer Location: Simi Valley, CA			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA- ECP 973/Fuel Cell Floor Crack				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP XXX27/28/30/F/A-18 A-D Structural Stress Corrosion Cracking Issues				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates		Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA/NGC - ECP 1118NI F/A-18 A-D Y580.5/Y590.5 Former Replace Modline				Manufacturer Location: Orange Park, FL; El Segundo, CA			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 42			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA-ECP 1176 NI OWP Missile Support Rib Retrofit				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Mar 2021	Mar 2022	Mar 2023
Delivery Dates					Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: Boeing - ECP 608 Crease Longerons				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA- ECP 1159/Y557.5 BULKHEAD TUB RETROFIT				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP XXX26 Structural Stress Corrosion Crack Issues				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 9			

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jan 2018	Jan 2019		Jan 2021	Jan 2022	Jan 2023
Delivery Dates		Oct 2018	Oct 2019		Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: Boeing - ECP 796/Wing Fuel Dams				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP-1155 Motive Flow Bulkhead Replacement				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 10			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates			Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: CKA - ECP-1155 NI Fuel Tank Four Cavity Foam Material Change				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 22			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Dec 2017	Dec 2018				
Delivery Dates		Oct 2019	Oct 2020				
Manufacturer Name: CKA/NGC- ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap Retrofit				Manufacturer Location: Orange Park, FL; El Segundo, CA			
Administrative Leadtime (<i>in Months</i>): 10				Production Leadtime (<i>in Months</i>): 20			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jul 2017						
Delivery Dates	Mar 2019						
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: Prior Year Procurements

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2,483 / 41.364	706 / 21.615	1,243 / 30.102	1,085 / 18.108	0 / 0.000	1,085 / 18.108	790 / 15.364	408 / 11.606	167 / 9.285	134 / 4.463	276 / 15.743	7,292 / 167.650
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2,483 / 41.364	706 / 21.615	1,243 / 30.102	1,085 / 18.108	0 / 0.000	1,085 / 18.108	790 / 15.364	408 / 11.606	167 / 9.285	134 / 4.463	276 / 15.743	7,292 / 167.650

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2,483	193	186	180	147	312	330	329	272	275	293	296	221	215	208	204	163	118	111	108	71	62	55	40	10	54	47	28	5	276	7,292
Out	2,483	193	186	180	147	312	330	329	272	275	293	296	221	215	208	204	163	118	111	108	71	62	55	40	10	54	47	28	5	276	7,292

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap Retr

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	121 / 5.825	37 / 6.959	60 / 3.251	20 / 1.205	0 / 0.000	20 / 1.205	12 / 0.555	- / -	- / -	- / -	0 / 0.000	250 / 17.795
FY 2017	- / -	- / -	- / -	34 / 2.049	0 / 0.000	34 / 2.049	36 / 1.692	- / -	- / -	- / -	0 / 0.000	70 / 3.741
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap Retr

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	121 / 5.825	37 / 6.959	60 / 3.251	54 / 3.254	0 / 0.000	54 / 3.254	48 / 2.247	- / -	- / -	- / -	0 / 0.000	320 / 21.536

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	121	10	10	10	7	2	19	19	20	10	10	17	17	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	320
Out	121	10	10	10	7	2	19	19	20	10	10	17	17	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	320

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-1155 NI Fuel Tank Four Cavity Foam Material Chan

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	131 / 0.202	46 / 0.026	72 / 0.066	113 / 0.057	0 / 0.000	113 / 0.057	- / -	- / -	- / -	- / -	0 / 0.000	362 / 0.351
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	62 / 0.030	- / -	- / -	- / -	0 / 0.000	62 / 0.030
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 0.019	- / -	- / -	0 / 0.000	41 / 0.019
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	131 / 0.202	46 / 0.026	72 / 0.066	113 / 0.057	0 / 0.000	113 / 0.057	62 / 0.030	41 / 0.019	- / -	- / -	0 / 0.000	465 / 0.400

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-1155 NI Fuel Tank Four Cavity Foam Material Chan

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	131	15	15	10	6	18	18	18	18	28	28	28	29	15	15	16	16	10	10	10	11	-	-	-	-	-	-	-	-	-	465
Out	131	15	15	10	6	18	18	18	18	28	28	28	29	15	15	16	16	10	10	10	11	-	-	-	-	-	-	-	-	-	465

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1155C1 NI Motive Flow Bulkhead Replacement

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	123 / 0.227	10 / 0.019	0 / 0.000	10 / 0.019	- / -	- / -	- / -	- / -	0 / 0.000	133 / 0.246
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.039	- / -	- / -	- / -	0 / 0.000	20 / 0.039
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.039	- / -	- / -	0 / 0.000	20 / 0.039
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.040	- / -	0 / 0.000	20 / 0.040
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.041	0 / 0.000	20 / 0.041
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.021	20 / 0.021
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	328 / 0.671	328 / 0.671
Total	- / -	- / -	123 / 0.227	10 / 0.019	0 / 0.000	10 / 0.019	20 / 0.039	20 / 0.039	20 / 0.040	20 / 0.041	348 / 0.692	561 / 1.097

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	31	31	31	30	5	5	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	348	561
Out	-	-	-	-	-	31	31	31	30	5	5	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	348	561

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1176 NI OWP Missile Support Rib Retrofit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	30 / 1.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 1.700
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.902	- / -	0 / 0.000	15 / 0.902
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.915	0 / 0.000	15 / 0.915
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.920	15 / 0.920
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	303 / 18.180	303 / 18.180
Total	- / -	30 / 1.700	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.902	15 / 0.915	318 / 19.100	378 / 22.617

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	7	7	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	-	5	5	5	-	318	378	
Out	-	7	7	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	-	5	5	5	-	318	378	

Method of Implementation: Navy Drive-in Modification:: Installation Name: ECPs XX26, XXX27, XXX28, XXX30

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	80 / 2.447	0 / 0.000	80 / 2.447	- / -	- / -	- / -	- / -	0 / 0.000	80 / 2.447
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	80 / 2.477	- / -	- / -	- / -	0 / 0.000	80 / 2.477
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.803	- / -	- / -	0 / 0.000	40 / 0.803
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 2.581	- / -	0 / 0.000	80 / 2.581
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 3.832	0 / 0.000	100 / 3.832
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 2.640	80 / 2.640

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)																
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)																															
Installation Information																															
Method of Implementation: Navy Drive-in Modification:: Installation Name: ECPs XX26, XXX27, XXX28, XXX30																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,440 / 47.440	1,440 / 47.440																	
Total		- / -	- / -	- / -	80 / 2.447	0 / 0.000	80 / 2.447	80 / 2.477	40 / 0.803	80 / 2.581	100 / 3.832	1,520 / 50.080	1,900 / 62.220																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	10	10	10	10	20	20	20	20	25	25	25	25	1,520	1,900
Out	-	-	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	10	10	10	10	20	20	20	20	25	25	25	25	1,520	1,900
Method of Implementation (Organic): ECP 609C1 Inner Wing Retrofit of Wing Fuel Transfare Manifold																				Installation Quantity: 116											
Method of Implementation (Organic): ECP 1095 NI F/A-18 A-D MLG Side Brace Downlock Actuator Connecting Link																				Installation Quantity: 169											
Method of Implementation (Organic): ECP 1121 F/A-18 A-D MLG Critical Components Retrofit																				Installation Quantity: 305											
Method of Implementation (Organic): ECP 1122 F/A-18 A-D NLG Critical Components Retrofit																				Installation Quantity: 305											
Method of Implementation (Organic): ECP 1140NI Aileron Servocylnr Main Ram Linear Var Displacement																				Installation Quantity: 470											
Method of Implementation (Organic): ECP 1169 NI Arresting Hook Point Bolt Material Change Retrofit																				Installation Quantity: 1224											
Method of Implementation (Organic): ECP 1186 NI NLG Uplock Dash Number & Serialization																				Installation Quantity: 569											
Method of Implementation (Organic): ECP 6495: Servocylinder Test Station Obsolescence Upgrade																				Installation Quantity: 25											

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)		
Installation Information		
Method of Implementation (Organic): ECP XXX29 F/A-18 A-D Fuel Related Upgrade Issues		Installation Quantity: 475
Method of Implementation (Organic): ECP-XXX33 - F/A-18 A-D NACES Retrofit Upgrades		Installation Quantity: 600
Method of Implementation (Organic): ECP-9557MB NACES UPGRADE		Installation Quantity: 350
Footnotes: (1) In warranty kits. No kit cost. Installs are based on TYCOM direction and A/C lot and availability for induction. No lead time for kits. (2) Installs are based on TYCOM direction and A/C availability for induction. (3) Variants include single and dual seats, therefore some aircraft require 2 kits.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 2 / Digital Communications System (DCS) (OSIP 10-99)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	129.839	28.260	11.903	33.507	0.000	33.507	13.688	12.192	8.009	8.169	28.581	274.148
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	129.839	28.260	11.903	33.507	0.000	33.507	13.688	12.192	8.009	8.169	28.581	274.148
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	129.839	28.260	11.903	33.507	0.000	33.507	13.688	12.192	8.009	8.169	28.581	274.148
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Digital Communications System (DCS) consists of an upgraded AN/ARC-210 Receiver Transmitter (RT) (with embedded digital message transfer capability and embedded communications security) installed in the F/A-18 and integrated with the F/A-18 weapons system (mission computer, controls and displays, and communication subsystem). The DCS utilizes pre-formatted messages to communicate with standard United States Marine Corps, United States Navy, and United States Air Force digital communications devices to facilitate close air support, deep air strike, and tactical air control missions. Joint Staff has specified new requirements for close air support platforms to improve interoperability between air and ground units in Digitally-Aided Close Air Support (DACAS) missions. These requirements are being satisfied with the upgrade of the DCS radio to the ARC-210 RT-1990 radio. DCS reduces voice communications requirements which tend to be slow, inaccurate, and susceptible to Meaconing, Interference, Jamming, and Intrusion. DCS will enhance mission effectiveness by decreasing pilot workload which allows the pilot more time to counter increased threat capabilities (operational requirements document# 486-88-98). The RT-1990 radio also supports the North Atlantic Treaty Organization (NATO) standard anti-jam waveform, Second generation Anti-jam Tactical UHF radio for NATO (SATURN), and will greatly improve communication in a jamming environment as compared to current anti-jam waveforms. The next version of ARC-210, RT-1990A, and the next version of the Comm1 external encryptor, KY-58M, will support National Security Agency cryptographic modernization mandates and the instruction CJCSI 6510.02E Cryptographic Modernization Planning. This operational safety improvement program will also be used to address parts obsolescence issues and to perform non-recurring work associated with network centric operations and interoperability requirements. The RT-2036 is the next version of the ARC-210, and supports Mobile User Objective System (MUOS) SATCOM. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The AN/ARC-210 RT is being upgraded to a DCS RT-1990/RT-1990A. The initial engineering developmental model was delivered (using Research Development Test & Evaluation, Navy resources) in FY2013 as scheduled. The F/A-18E/F and EA-18G Joint Staff requirements will be satisfied by retrofitting the RT-1990 under the H10 SCS. The cryptographic modernization mandates will be satisfied by retrofitting the RT-1990A under the H14 SCS. The legacy F/A-18 requirements will be satisfied by retrofitting the RT-1990A under the 27C SCS. The Comm1 external encryptor, KY-58, will be upgraded to KY-58M VACM for all F/A-18 aircraft.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 2 / Digital Communications System (DCS) (OSIP 10-99)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 and EA-18G			Modification Type: CAPABILITY IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Digital Communications System (DCS) (OSIP 10-99)													
B Kits													
Recurring													
1.1.1) Gen 5 Radio (RT-1990/A) (ECP 1143) - Organic (4)	504 / 41.940	165 / 13.200	- / -	275 / 22.767	- / -	275 / 22.767	52 / 4.413	38 / 3.302	10 / 0.891	38 / 3.452	261 / 23.712	1,343 / 113.677	
1.1.2) 27C SCS - Organic	- / 13.436	- / 0.469	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.905	
1.1.3) 29C SCS - Organic	- / 1.606	- / 0.399	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.005	
1.1.4) H12 SCS - Organic	- / -	- / 2.524	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.524	
1.1.5) H14 SCS - Organic	- / 2.439	- / 2.534	- / 2.516	- / 1.053	- / -	- / 1.053	- / -	- / -	- / -	- / -	- / -	- / 8.542	
1.1.6) H16 SCS - Organic	- / 2.561	- / 0.697	- / 2.829	- / 2.184	- / -	- / 2.184	- / 1.647	- / 1.146	- / 0.598	- / -	- / -	- / 11.662	
1.1.7) Archive Costs - Organic	182 / 41.565	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	182 / 41.565	
Subtotal: Recurring	- / 103.547	- / 19.823	- / 5.345	- / 26.004	- / -	- / 26.004	- / 6.060	- / 4.448	- / 1.489	- / 3.452	- / 23.712	- / 193.880	
Non-Recurring													
1.2.1) Install Equipment N/R - Organic	- / 11.693	- / 4.197	- / 1.097	- / 0.638	- / -	- / 0.638	- / 0.660	- / 0.672	- / 0.684	- / -	- / -	- / 19.641	
Subtotal: Non-Recurring	- / 11.693	- / 4.197	- / 1.097	- / 0.638	- / -	- / 0.638	- / 0.660	- / 0.672	- / 0.684	- / -	- / 0.000	- / 19.641	
Subtotal: Digital Communications System (DCS) (OSIP 10-99)	686 / 115.240	165 / 24.020	- / 6.442	275 / 26.642	- / -	275 / 26.642	52 / 6.720	38 / 5.120	10 / 2.173	38 / 3.452	261 / 23.712	1,525 / 213.521	
Subtotal: Procurement, All Modification Items	- / 115.240	- / 24.020	- / 6.442	- / 26.642	- / -	- / 26.642	- / 6.720	- / 5.120	- / 2.173	- / 3.452	- / 23.712	- / 213.521	
Support (All Modification Items)													
2.1) Engineering Change Orders	- / 0.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.483	
2.2) Data	- / 0.370	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.370	
2.3) Training Equipment	- / 1.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.165	
2.4) Support Equipment	- / 1.013	- / -	- / -	- / 1.200	- / -	- / 1.200	- / 1.200	- / 1.200	- / 1.200	- / -	- / -	- / 5.813	
2.5) ILS	- / 4.480	- / 0.062	- / 0.063	- / 0.064	- / -	- / 0.064	- / 0.066	- / 0.067	- / 0.068	- / 0.070	- / 0.069	- / 5.009	
2.6) Other Support	- / 7.088	- / 4.178	- / 5.398	- / 5.601	- / -	- / 5.601	- / 5.702	- / 5.805	- / 4.568	- / 4.647	- / 4.800	- / 47.787	
Subtotal: Support	- / 14.599	- / 4.240	- / 5.461	- / 6.865	- / -	- / 6.865	- / 6.968	- / 7.072	- / 5.836	- / 4.717	- / 4.869	- / 60.627	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 2 / Digital Communications System (DCS) (OSIP 10-99)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 and EA-18G			Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total Cost (Procurement + Support + Installation)	129.839	28.260	11.903	33.507	0.000	33.507	13.688	12.192	8.009	8.169	28.581	274.148	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 2 / Digital Communications System (DCS) (OSIP 10-99)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Digital Communications System (DCS) (OSIP 10-99)		
Footnotes: ⁽⁴⁾ The "Gen 5 Radio (RT-1990/A)" kits will replace the previously appropriated DCS (RT-1824) kits.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,181.821	63.784	127.210	139.640	0.000	139.640	101.269	97.588	93.402	95.193	784.042	2,683.949
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,181.821	63.784	127.210	139.640	0.000	139.640	101.269	97.588	93.402	95.193	784.042	2,683.949
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,181.821	63.784	127.210	139.640	0.000	139.640	101.269	97.588	93.402	95.193	784.042	2,683.949
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Incorporation of structural enhancements and changes is required to attain F/A-18 service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY 2030. Structural enhancements and changes include resolution of discrepancies identified as a result of structural test-16 and in-service experience. These Service Life Extension Program (SLEP) enhancements and changes to extend the life from 6,000 hours to 10,000 hours include: modifications to allow the entire airframe to extend flight hours; modifications to ensure structures currently limited to 78% of design life can achieve 100% life; modifications to ensure landing gear, catapult and attachment components can extend total landings. The unacceptable alternative to retrofitting would be the failure to reach full fatigue life for these aircraft and to not correct the structural defects discovered on fatigue test articles. In many cases, the mission capability of the aircraft would be adversely affected in addition to its reduced service life. As a result, aircraft may be prematurely removed from useful service. Center Barrel Replacement Plus (CBR+) is applicable to F/A-18A/B/C/Ds. Engineering Change Proposal (ECP) 904 Part 1 is the basic center barrel kit. ECP 904 Part 2 is required to extend Wing Root Fatigue Life Expended (WRFLE) and is not required for all aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Currently all Lot VI through XVII aircraft have 78% life limits without the structural life management plan modifications to bring them to 100% airframe life. The Fleet Readiness Center North Island developed ECP 904NI (CBR+) which was approved on 27 April 2000. Validation started October 2000 and was completed in August 2001. Verification started August 2001 and was completed June 2002.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 A/B/C/D			Modification Type: SAFETY / LIFE EXTENSION					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+													
A Kits													
Recurring													
1.1.1) CBR ECP 904 Part 1 (Basic) WRFLE SLEP - Night Attack - NonOrganic ⁽⁵⁾	233 / 203.434	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	233 / 203.434	
1.1.2) CBR+ ECP 904 Part 1 (Basic) WRFLE SLEP - Day Attack - NonOrganic ⁽⁶⁾	117 / 110.975	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	117 / 110.975	
1.1.3) CBR+ ECP 904 Part 2 - Organic ⁽⁷⁾	160 / 72.212	8 / 0.464	8 / 0.506	8 / 0.515	- / -	8 / 0.515	8 / 0.525	8 / 0.498	8 / 0.490	- / -	- / -	208 / 75.210	
1.1.4) ECP 1099 AFC-579 NLG Retract Actuator Supports - NonOrganic	4 / 0.072	2 / 0.037	2 / 0.037	2 / 0.038	- / -	2 / 0.038	1 / 0.019	1 / 0.020	1 / 0.020	1 / 0.020	1 / 0.020	15 / 0.283	
1.1.5) ECP-0627 AFC-648 BULKHEAD ASSY-FWD FUS, ACFT, Y357.500 - NonOrganic	- / -	2 / 0.162	10 / 0.814	10 / 0.842	- / -	10 / 0.842	10 / 0.857	10 / 0.873	10 / 0.880	10 / 0.889	88 / 6.160	150 / 11.477	
1.1.6) ECP-0627 AFC-FFLEX02, ACFT - FWDFUS, Y233.7 - Y286.5, Z90.15 - NonOrganic	- / -	2 / 0.027	20 / 0.273	10 / 0.139	- / -	10 / 0.139	10 / 0.141	10 / 0.144	20 / 0.293	20 / 0.293	58 / 0.986	150 / 2.296	
1.1.7) ECP-0627 AFC-FFLEX03, ACFT-FWDFUS, Y233.7-Y279.0 - NonOrganic	- / -	2 / 0.054	20 / 0.545	10 / 0.278	- / -	10 / 0.278	10 / 0.283	10 / 0.288	20 / 0.586	20 / 0.586	58 / 1.740	150 / 4.360	
1.1.8) ECP-0629 AFC-651 FCF 700 Upper Skin - NonOrganic	- / -	2 / 0.045	2 / 0.046	2 / 0.046	- / -	2 / 0.046	2 / 0.047	2 / 0.048	2 / 0.049	2 / 0.050	6 / 0.300	20 / 0.631	
1.1.9) ECP-0630 AFC-652 AFC Upper Crease Longerons Straps - NonOrganic	- / -	- / -	30 / 1.500	10 / 0.510	- / -	10 / 0.510	10 / 0.520	10 / 0.530	10 / 0.540	10 / 0.550	220 / 10.450	300 / 14.600	
1.1.10) ECP-0630 AFC-ACF01 ADAPTER - MISSILE LAUNCHER, Y488 - Y497 - NonOrganic	- / -	2 / 0.164	20 / 1.673	10 / 0.851	- / -	10 / 0.851	10 / 0.867	10 / 0.880	10 / 0.890	10 / 0.900	78 / 7.098	150 / 13.323	
1.1.11) ECP-0630 AFC-ACF02 FORMER-UPPER SEGMENT Y518.000 - NonOrganic	- / -	2 / 0.291	10 / 1.400	10 / 1.450	- / -	10 / 1.450	10 / 1.500	10 / 1.550	5 / 0.795	10 / 1.620	93 / 14.256	150 / 22.862	
1.1.12) ECP-0630 AFC-ACF03 FORMER, FUSELAGE UPPER,CENTER SECTION Y534.000 - NonOrganic	- / -	- / -	- / -	2 / 0.735	- / -	2 / 0.735	2 / 0.748	5 / 1.905	5 / 1.940	5 / 1.940	131 / 27.936	150 / 35.204	
1.1.13) ECP-0630 AFC-ACF04 SUPPORT, FLOOR-FUEL BAY, Y478.500 - NonOrganic	- / -	- / -	- / -	2 / 0.059	- / -	2 / 0.059	20 / 0.600	10 / 0.305	23 / 0.715	23 / 0.715	72 / 2.304	150 / 4.698	
1.1.14) ECP-0631 AYC-1725 IW MULTIPLE LOCATIONS L&R - NonOrganic	2 / 1.054	- / -	10 / 1.540	10 / 1.563	- / -	10 / 1.563	10 / 1.591	10 / 1.620	10 / 1.649	10 / 1.649	238 / 23.800	300 / 34.466	
1.1.15) ECP-0631 AYC-IW02 SPAR-REAR, WING PANEL INNER - NonOrganic	- / -	- / -	2 / 0.220	20 / 2.243	- / -	20 / 2.243	10 / 1.142	10 / 1.162	10 / 1.183	10 / 1.183	248 / 20.254	310 / 27.387	
1.1.16) ECP-0631 AYC-IW03 SPAR, WING PANEL INNER-NO.4 - NonOrganic	- / -	- / -	- / -	2 / 0.735	- / -	2 / 0.735	2 / 0.748	5 / 1.905	5 / 1.940	5 / 1.940	281 / 47.368	300 / 54.636	

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 A/B/C/D			Modification Type: SAFETY / LIFE EXTENSION					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.17) ECP-0631 AYC-IW04 SPAR ASSY-WING - NonOrganic	- / -	- / -	- / -	2 / 0.059	- / -	2 / 0.059	20 / 0.600	10 / 0.305	10 / 0.311	10 / 0.311	248 / 3.720	300 / 5.306	
1.1.18) ECP-0632 AYC-1724 OW SPAR, OUTER-INTMD, NO 3 L&R - NonOrganic	- / -	2 / 0.244	10 / 1.240	10 / 1.263	- / -	10 / 1.263	10 / 1.286	10 / 1.309	10 / 1.332	10 / 1.332	238 / 24.038	300 / 32.044	
1.1.19) ECP-0632 AYC-OW02 MULTIPLE LOCATIONS; Intermediate 1, 2, Rear Spars - NonOrganic	- / -	- / -	2 / 0.270	20 / 2.750	- / -	20 / 2.750	10 / 1.400	10 / 1.425	10 / 1.451	10 / 1.451	238 / 4.925	300 / 13.672	
1.1.20) ECP-0632 AYC-OW03 SPAR ASSY-WING, OUTER 68 % - NonOrganic	- / -	- / -	- / -	2 / 0.130	- / -	2 / 0.130	20 / 1.325	10 / 0.674	10 / 0.686	10 / 0.686	248 / 4.925	300 / 8.426	
1.1.21) ECP-0632 AYC-OW04 RIB, WING, OUTER-CANTED XW179.700 - NonOrganic	- / -	- / -	- / -	2 / 0.184	- / -	2 / 0.184	20 / 1.873	10 / 0.953	10 / 0.971	10 / 0.971	248 / 8.860	300 / 13.812	
1.1.22) ECP-0633 AFC-650 AF Door 68 Doubler L&R - NonOrganic	2 / 0.046	- / -	60 / 1.440	10 / 0.240	- / -	10 / 0.240	10 / 0.240	10 / 0.244	10 / 0.250	10 / 0.250	188 / 3.760	300 / 6.470	
1.1.23) ECP-0633 AFC-668 AF AFT Lower Longerons; Above Door 68 L&R - NonOrganic	2 / 0.000	- / -	60 / 6.120	10 / 1.030	- / -	10 / 1.030	10 / 1.050	10 / 1.070	10 / 1.090	10 / 1.110	188 / 8.130	300 / 19.600	
1.1.24) ECP-0633 AFC-AF03 LONGERON-FUS, UPR OUTBD, Y558.821 TO Y657.350 - NonOrganic	- / -	- / -	2 / 0.019	20 / 0.198	- / -	20 / 0.198	10 / 0.101	10 / 0.103	10 / 0.105	10 / 0.105	88 / 0.968	150 / 1.599	
1.1.25) ECP-0633 AFC-AF04 FORMER TI-FUS AFT SECT, OUTBD, Y598.00 - NonOrganic	- / -	- / -	2 / 0.047	20 / 0.476	- / -	20 / 0.476	10 / 0.242	10 / 0.246	10 / 0.251	10 / 0.251	88 / 2.376	150 / 3.889	
1.1.26) ECP-0633 AFC-AF05 FORMER-FUS AFT SECT, INBD, Y598.000 - NonOrganic	- / -	- / -	- / -	2 / 0.198	- / -	2 / 0.198	20 / 2.020	10 / 1.028	10 / 1.046	10 / 1.046	98 / 12.054	150 / 17.392	
1.1.27) ECP-0633 AFC-AF06 FORMER-FUS AFT SECT, INBD, Y623.000 - NonOrganic	- / -	- / -	- / -	2 / 0.032	- / -	2 / 0.032	20 / 0.323	10 / 0.164	10 / 0.167	10 / 0.167	98 / 1.960	150 / 2.813	
1.1.28) ECP-0633 AFC-AF07 FORMER-AFT FUS SECT, INBD, Y633.250 - NonOrganic	- / -	- / -	- / -	2 / 0.048	- / -	2 / 0.048	20 / 0.485	10 / 0.247	10 / 0.251	10 / 0.251	98 / 2.880	150 / 4.162	
1.1.29) ECP-0633 AFC-AF08 PLATE, T-LONGERON, Y607.000, Y615.000 - NonOrganic	- / -	- / -	- / -	2 / 0.048	- / -	2 / 0.048	20 / 0.485	10 / 0.247	10 / 0.251	10 / 0.251	98 / 2.940	150 / 4.222	
1.1.30) Archived Costs - Organic	- / 5.669	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.669	
Subtotal: Recurring	- / 393.462	- / 1.488	- / 17.690	- / 16.660	- / -	- / 16.660	- / 21.018	- / 19.743	- / 20.132	- / 20.517	- / 244.208	- / 754.918	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽⁸⁾	- / 173.013	- / 27.872	- / 46.395	- / 37.593	- / -	- / 37.593	- / 29.448	- / 21.895	- / 21.483	- / 22.927	- / 95.994	- / 476.620	
Subtotal: Non-Recurring	- / 173.013	- / 27.872	- / 46.395	- / 37.593	- / -	- / 37.593	- / 29.448	- / 21.895	- / 21.483	- / 22.927	- / 95.994	- / 476.620	
B Kits													
Recurring													
2.1.1) Fuel Cell Refurb & RIM (RIM start FY08) - Organic ⁽⁹⁾	261 / 33.082	5 / 1.000	17 / 3.400	20 / 4.000	- / -	20 / 4.000	8 / 1.600	8 / 1.600	6 / 1.200	8 / 1.600	17 / 3.400	350 / 50.882	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 A/B/C/D			Modification Type: SAFETY / LIFE EXTENSION				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.2) Nacelle RIM (271 & 316C1) - Organic ⁽¹⁰⁾	43 / 4.470	5 / 0.395	17 / 1.105	20 / 1.300	- / -	20 / 1.300	8 / 0.520	8 / 0.520	6 / 0.390	8 / 0.520	17 / 1.105	132 / 10.325
Subtotal: Recurring	- / 37.552	- / 1.395	- / 4.505	- / 5.300	- / -	- / 5.300	- / 2.120	- / 2.120	- / 1.590	- / 2.120	- / 4.505	- / 61.207
Non-Recurring												
2.2.1) Install Equipment N/R - Organic	- / 15.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.083
Subtotal: Non-Recurring	- / 15.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 15.083
Subtotal: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+	824 / 619.110	34 / 30.755	304 / 68.590	252 / 59.553	- / -	252 / 59.553	331 / 52.586	257 / 43.758	281 / 43.205	282 / 45.564	3,770 / 344.707	6,335 / 1,307.828
Subtotal: Procurement, All Modification Items	- / 619.110	- / 30.755	- / 68.590	- / 59.553	- / -	- / 59.553	- / 52.586	- / 43.758	- / 43.205	- / 45.564	- / 344.707	- / 1,307.828
Support (All Modification Items)												
3.2) Data	- / 19.088	- / 0.017	- / 0.070	- / 0.083	- / -	- / 0.083	- / 0.097	- / 0.115	- / 0.136	- / 0.160	- / 0.189	- / 19.955
3.4) Support Equipment	- / 3.583	- / 0.196	- / 0.706	- / 0.709	- / -	- / 0.709	- / 0.212	- / 0.215	- / 0.218	- / 0.218	- / 0.847	- / 6.904
3.5) Inventory Modeling	- / 11.125	- / 3.331	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.456
3.6) ILS	- / 81.789	- / 6.303	- / 6.466	- / 5.877	- / -	- / 5.877	- / 5.983	- / 6.090	- / 6.095	- / 5.150	- / 24.081	- / 147.834
3.7) Other Support ⁽¹¹⁾	- / 102.416	- / 13.448	- / 15.480	- / 15.759	- / -	- / 15.759	- / 16.042	- / 16.258	- / 15.818	- / 14.912	- / 84.715	- / 294.848
Subtotal: Support	- / 218.001	- / 23.295	- / 22.722	- / 22.428	- / -	- / 22.428	- / 22.334	- / 22.678	- / 22.267	- / 20.440	- / 109.832	- / 483.997
Installation												
Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+	- / 344.710	- / 9.734	- / 35.898	- / 57.659	- / 0.000	- / 57.659	- / 26.349	- / 31.152	- / 27.930	- / 29.189	- / 329.503	- / 892.124
Subtotal: Installation	- / 344.710	- / 9.734	- / 35.898	- / 57.659	- / -	- / 57.659	- / 26.349	- / 31.152	- / 27.930	- / 29.189	- / 329.503	- / 892.124
Total												
Total Cost (Procurement + Support + Installation)	1,181.821	63.784	127.210	139.640	0.000	139.640	101.269	97.588	93.402	95.193	784.042	2,683.949

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+							
Manufacturer Information							
Manufacturer Name: Northrop Grumman - CBR ECP 904				Manufacturer Location: El Segundo, CA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 29			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP-0630 AFT Center Fuselage				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: North Island - ECP 1099 NLG Retract Actuator Supports				Manufacturer Location: San Diego, CA			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022	Nov 2023
Manufacturer Name: Boeing -ECP-0632 Outer Wing				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: Boeing - ECP-0631 Inner Wing				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 9			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+													
Manufacturer Information													
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates		Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023						
Delivery Dates		Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023						
Manufacturer Name: Boeing - ECP-0633 AFT Fuselage				Manufacturer Location: St Louis, MO									
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates		Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023						
Delivery Dates		Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023						
Manufacturer Name: Boeing - ECP-0627 FWD Fuselage & LEX				Manufacturer Location: St Louis, MO									
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023						
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023						
Manufacturer Name: Boeing -ECP-0629 FWD Center Fuselage				Manufacturer Location: St Louis, MO									
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023						
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023						
Installation Information													
Method of Implementation: Navy Drive-In Modification:: Installation Name: CBR ECP 904													
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	260 / 344.267	4 / 9.344	17 / 34.739	22 / 41.256	0 / 0.000	22 / 41.256	6 / 11.634	6 / 11.838	5 / 9.950	6 / 11.939	24 / 47.256	350 / 522.223	
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: CBR ECP 904

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	260 / 344.267	4 / 9.344	17 / 34.739	22 / 41.256	0 / 0.000	22 / 41.256	6 / 11.634	6 / 11.838	5 / 9.950	6 / 11.939	24 / 47.256	350 / 522.223

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	260	3	1	-	-	8	8	1	-	11	11	-	-	3	3	-	-	3	3	-	-	3	2	-	-	3	3	-	-	24	350
Out	260	-	-	3	1	1	-	8	8	-	-	11	11	-	-	3	3	-	-	3	3	-	-	3	2	-	-	3	3	24	350

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1099 AFC-579 NLG Retract Actuator Supports

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 0.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.443
FY 2017	- / -	- / -	2 / 0.259	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.259
FY 2018	- / -	- / -	- / -	2 / 0.264	0 / 0.000	2 / 0.264	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.264
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.268	- / -	- / -	- / -	0 / 0.000	2 / 0.268
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.137	- / -	- / -	0 / 0.000	1 / 0.137
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.139	- / -	0 / 0.000	1 / 0.139
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.139	0 / 0.000	1 / 0.139
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.139	1 / 0.139
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.139	1 / 0.139
Total	4 / 0.443	- / -	2 / 0.259	2 / 0.264	0 / 0.000	2 / 0.264	2 / 0.268	1 / 0.137	1 / 0.139	1 / 0.139	2 / 0.278	15 / 1.927

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1099 AFC-579 NLG Retract Actuator Supports

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	-	-	-	-	1	1	-	-	1	1	-	-	1	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	2	15
Out	4	-	-	-	-	1	1	-	-	1	1	-	-	1	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	2	15

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0627 FWD Fuselage & LEX

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	6 / 0.248	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.248
FY 2018	- / -	- / -	- / -	50 / 1.677	0 / 0.000	50 / 1.677	- / -	- / -	- / -	- / -	0 / 0.000	50 / 1.677
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.282	- / -	- / -	- / -	0 / 0.000	30 / 1.282
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.305	- / -	- / -	0 / 0.000	30 / 1.305
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.329	- / -	0 / 0.000	30 / 1.329
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.329	20 / 0.457	50 / 1.786
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 1.660	50 / 1.660
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	204 / 8.944	204 / 8.944
Total	- / -	- / -	6 / 0.248	50 / 1.677	0 / 0.000	50 / 1.677	30 / 1.282	30 / 1.305	30 / 1.329	30 / 1.329	274 / 11.061	450 / 18.231

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	6	-	-	-	15	15	10	10	9	11	6	4	9	11	6	4	9	11	6	4	9	11	6	4	274	450
Out	-	-	-	-	-	4	-	2	-	10	10	15	15	4	6	11	9	4	6	11	9	4	6	11	9	4	6	11	9	274	450

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0629 FWD Center Fuselage

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	2 / 0.048	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.048
FY 2018	- / -	- / -	- / -	2 / 0.049	0 / 0.000	2 / 0.049	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.049
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.050	- / -	- / -	- / -	0 / 0.000	2 / 0.050
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.051	- / -	- / -	0 / 0.000	2 / 0.051
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.052	- / -	0 / 0.000	2 / 0.052
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.052	0 / 0.000	2 / 0.052
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.052	2 / 0.052
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.156	6 / 0.156
Total	- / -	- / -	2 / 0.048	2 / 0.049	0 / 0.000	2 / 0.049	2 / 0.050	2 / 0.051	2 / 0.052	2 / 0.052	8 / 0.208	20 / 0.510

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	8	20
Out	-	-	-	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	8	20

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0630 AFT Center Fuselage

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	4 / 0.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.464
FY 2018	- / -	- / -	- / -	60 / 4.684	0 / 0.000	60 / 4.684	- / -	- / -	- / -	- / -	0 / 0.000	60 / 4.684
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	34 / 3.697	- / -	- / -	- / -	0 / 0.000	34 / 3.697
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 4.336	- / -	- / -	0 / 0.000	52 / 4.336
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 5.271	- / -	0 / 0.000	45 / 5.271
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 4.511	13 / 0.416	53 / 4.927

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0630 AFT Center Fuselage

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	58 / 5.286	58 / 5.286
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	594 / 74.566	594 / 74.566
Total	- / -	- / -	4 / 0.464	60 / 4.684	0 / 0.000	60 / 4.684	34 / 3.697	52 / 4.336	45 / 5.271	40 / 4.511	665 / 80.268	900 / 103.231

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	4	-	-	-	14	16	15	15	11	8	9	6	14	13	14	11	14	15	10	6	14	15	7	4	665	900
Out	-	-	-	-	-	4	-	-	-	14	16	15	15	11	8	9	6	14	13	14	11	14	15	10	6	14	15	7	4	665	900

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0631 Inner Wing

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 0.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.138
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	12 / 1.018	0 / 0.000	12 / 1.018	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.018
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	34 / 4.669	- / -	- / -	- / -	0 / 0.000	34 / 4.669
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 3.707	- / -	- / -	0 / 0.000	42 / 3.707
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 4.628	- / -	0 / 0.000	35 / 4.628
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 4.628	0 / 0.000	35 / 4.628
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 3.600	35 / 3.600
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,015 / 94.460	1,015 / 94.460
Total	- / -	2 / 0.138	- / -	12 / 1.018	0 / 0.000	12 / 1.018	34 / 4.669	42 / 3.707	35 / 4.628	35 / 4.628	1,050 / 98.060	1,210 / 116.848

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																									Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+																															
Installation Information																															
Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0631 Inner Wing																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	2	-	-	-	-	-	-	-	7	5	-	-	12	12	5	5	16	16	5	5	17	17	1	-	17	17	1	-	1,050	1,210
Out	-	-	2	-	-	-	-	-	-	7	5	-	-	12	12	5	5	16	16	5	5	17	17	1	-	17	17	1	-	1,050	1,210
Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0632 Outer Wing																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	2 / 0.140	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.140																		
FY 2018		- / -	- / -	- / -	12 / 0.843	0 / 0.000	12 / 0.843	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.843																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	34 / 2.400	- / -	- / -	- / -	0 / 0.000	34 / 2.400																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 4.688	- / -	- / -	0 / 0.000	60 / 4.688																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 3.114	- / -	0 / 0.000	40 / 3.114																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 3.114	0 / 0.000	40 / 3.114																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.530	40 / 1.530																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	972 / 37.010	972 / 37.010																		
Total		- / -	- / -	2 / 0.140	12 / 0.843	0 / 0.000	12 / 0.843	34 / 2.400	60 / 4.688	40 / 3.114	40 / 3.114	1,012 / 38.540	1,200 / 52.839																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	2	-	-	-	6	6	-	-	12	12	5	5	20	20	10	10	20	20	-	-	20	20	-	-	1,012	1,200
Out	-	-	-	-	-	-	2	-	-	6	6	-	-	12	12	5	5	20	20	10	10	20	20	-	-	20	20	-	-	1,012	1,200

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0633 AFT Fuselage

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	4 / 0.252	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.252
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	124 / 7.868	0 / 0.000	124 / 7.868	- / -	- / -	- / -	- / -	0 / 0.000	124 / 7.868
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	68 / 2.349	- / -	- / -	- / -	0 / 0.000	68 / 2.349
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 5.090	- / -	- / -	0 / 0.000	120 / 5.090
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 3.447	- / -	0 / 0.000	80 / 3.447
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 3.477	0 / 0.000	80 / 3.477
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 3.720	80 / 3.720
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	944 / 50.112	944 / 50.112
Total	- / -	4 / 0.252	- / -	124 / 7.868	0 / 0.000	124 / 7.868	68 / 2.349	120 / 5.090	80 / 3.447	80 / 3.477	1,024 / 53.832	1,500 / 76.315

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	4	-	-	-	-	-	-	-	34	30	30	30	22	16	16	14	34	36	26	24	34	36	6	4	34	36	6	4	1,024	1,500
Out	-	-	4	-	-	-	-	-	-	34	30	30	30	22	16	16	14	34	36	26	24	34	36	6	4	34	36	6	4	1,024	1,500

Method of Implementation (Organic): CBR+ ECP 904 Part 2	Installation Quantity: 208

Method of Implementation (Organic): Fuel Cell Refurb & RIM (RIM start FY08) - Not Installed	Installation Quantity: 350

Method of Implementation (Organic): Nacelle RIM (271 & 316C1) - Not Installed	Installation Quantity: 132

Footnotes:

⁽⁵⁾ Prior year procurements were planned based on ability to install 40 kits per year. Actual capacity to install is only up to 26 kits per year.

⁽⁶⁾ A) Kit installs are delayed due to procurement of Canadian and Australian kits. In addition, prior year procurements were planned based on ability to install 40 kits per year. Actual capacity to install is only up to 26 kits per year. B) Due to production line shut down, 23 kits were procured in FY13 as a life of type buy.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
⁽⁷⁾ Kit pricing is quantity sensitive. Foreign military sales procurements in some years affect unit price. ⁽⁸⁾ SLEP Non-Recurring Engineering (NRE) funding increases in FY18 based off of actual negotiated NRE of prior years and planned contract awards for SLEP ECP N/R efforts in FY18. ⁽⁹⁾ Funding for RIM is budgeted based on known repair requirements that will occur each time an F/A-18 is opened to install the CBR+ structural components. These issues are inherent and expected during a modification of this scope where areas of the aircraft are being disassembled that were never intended to be disassembled when originally manufactured. ⁽¹⁰⁾ Funding for RIM is budgeted based on known repair requirements that will occur each time an F/A-18 is opened to install the CBR+ structural components. These issues are inherent and expected during a modification of this scope where areas of the aircraft are being disassembled that were never intended to be disassembled when originally manufactured. ⁽¹¹⁾ Funding increases in FY18 due to ramp up of SLEP efforts.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	645.753	53.435	53.349	52.745	0.000	52.745	62.941	61.360	52.554	53.606	76.401	1,112.144	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	645.753	53.435	53.349	52.745	0.000	52.745	62.941	61.360	52.554	53.606	76.401	1,112.144	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	645.753	53.435	53.349	52.745	0.000	52.745	62.941	61.360	52.554	53.606	76.401	1,112.144	
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-	

Description:

This Operational, Safety and Improvement Program (OSIP) funds systems that provide secure digital data link communications and Tactical Air Navigation (TACAN) capabilities to aircraft. The Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) is an Engineering Change Proposal (ECP) upgrade to the MIDS-LVT (Low Volume Terminal) and offers the same functionality as MIDS-LVT (Link 16, tactical air navigation, and digital voice) in a software-controlled architecture, JTRS-compliant format, and provides the option of future expandability to host follow-on advanced tactical data links (i.e. Tactical Targeting Network Technology (TTNT). MIDS JTRS is approved for retrofit in Lots 26-31 F/A-18E/F and EA-18G aircraft and is funded for retrofit incorporation as MIDS JTRS 4-Net Concurrent Multi-Netting and Concurrent Contention Receive (CMN-4) in all MIDS-capable Navy F/A-18 and EA-18G aircraft. MIDS JTRS provides cryptographic modernization and frequency remapping capability. CMN-4 provides increased Link 16 capacity to support Navy Integrated Fire Control-Counter Air. With either MIDS-LVT or MIDS JTRS installed, F/A-18 is interoperable with all Link 16 equipped platforms in United States and Allied Nations. Retrofit incorporation of MIDS JTRS TTNT is planned for all EA-18G aircraft (Lot 30 and up) as part of Integrated Capability Package-3 (ICP-3) and for all Lot 26 and up F/A-18E/F aircraft. TTNT provides Internet Protocol (IP) and non-IP network connectivity at significantly increased throughput capacity compared to that of Link 16. This OSIP will also be used to perform efforts to address parts obsolescence and tactical modernization (MIDS Modernization Increments). Single MIDS Operational Requirements Document # 642-61-04 and MIDS JTRS Capability Production Document Change 1 Version 2.0 are germane.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

This OSIP was originally planned for incorporation of MIDS into F/A-18C/D (Lots 12-21) and F/A-18E/F (Lots 22-31), but is now applicable to all F/A-18A++/C/D/E/F and EA-18G aircraft. MIDS JTRS completed its VCD in March 2012. Full rate production approval for MIDS-LVT was granted on 25 September 2003 and for MIDS JTRS on 4 April 2012.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 and EA-18G			Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)													
A Kits													
Recurring													
1.1.1) A-Kits Archive - Organic	- / 262.817	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 262.817	
1.1.2) MIDS JTRS cable sets - Organic	124 / 0.481	155 / 0.703	165 / 0.990	105 / 0.630	- / -	105 / 0.630	42 / 0.252	59 / 0.354	76 / 0.456	76 / 0.465	288 / 2.184	1,090 / 6.515	
1.1.3) ECP 6445 A-kit - Organic	- / -	- / -	1,312 / 5.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,312 / 5.676	
1.1.4) TTNT A-Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	39 / 2.769	37 / 2.627	43 / 3.053	41 / 2.969	- / -	160 / 11.418	
Subtotal: Recurring	- / 263.298	- / 0.703	- / 6.666	- / 0.630	- / -	- / 0.630	- / 3.021	- / 2.981	- / 3.509	- / 3.434	- / 2.184	- / 286.426	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 0.194	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.194	
Subtotal: Non-Recurring	- / 0.194	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.194	
B Kits													
Recurring													
2.1.1) MIDS JTRS Upgrades (CMN-4) - Organic	12 / 2.269	- / -	77 / 14.536	78 / 14.833	- / -	78 / 14.833	77 / 14.796	64 / 12.416	64 / 12.608	20 / 4.019	- / -	392 / 75.477	
2.1.2) 27C SCS - Organic	- / 7.396	- / 0.088	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.484	
2.1.3) 29C SCS - Organic	- / -	- / 0.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.107	
2.1.4) H14 SCS - Organic	- / 0.488	- / -	- / 1.228	- / 1.044	- / -	- / 1.044	- / -	- / -	- / -	- / -	- / -	- / 2.760	
2.1.5) H16 SCS - Organic	- / -	- / 9.830	- / -	- / 1.926	- / -	- / 1.926	- / -	- / -	- / -	- / -	- / -	- / 11.756	
2.1.6) ECP 577R3 - NonOrganic ⁽¹²⁾	72 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.000	
2.1.7) E/F/G MIDS JTRS TTNT Terminals - Organic	- / -	28 / 21.313	17 / 13.395	20 / 15.983	- / -	20 / 15.983	39 / 30.999	37 / 29.815	26 / 21.016	37 / 30.506	327 / 57.100	531 / 220.127	
2.1.8) B-Kits Archive - Organic	- / 250.738	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 250.738	
Subtotal: Recurring	- / 260.891	- / 31.338	- / 29.159	- / 33.786	- / -	- / 33.786	- / 45.795	- / 42.231	- / 33.624	- / 34.525	- / 57.100	- / 568.449	
Non-Recurring													
2.2.1) Install Equipment N/R - Organic	- / 48.770	- / 5.036	- / 0.889	- / 0.903	- / -	- / 0.903	- / 0.808	- / 0.824	- / 0.856	- / 0.706	- / -	- / 58.792	
Subtotal: Non-Recurring	- / 48.770	- / 5.036	- / 0.889	- / 0.903	- / -	- / 0.903	- / 0.808	- / 0.824	- / 0.856	- / 0.706	- / 0.000	- / 58.792	
Subtotal: Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)	208 / 573.153	183 / 37.077	1,571 / 36.714	203 / 35.319	- / -	203 / 35.319	197 / 49.624	197 / 46.036	209 / 37.989	174 / 38.665	615 / 59.284	3,557 / 913.861	
Subtotal: Procurement, All Modification Items	- / 573.153	- / 37.077	- / 36.714	- / 35.319	- / -	- / 35.319	- / 49.624	- / 46.036	- / 37.989	- / 38.665	- / 59.284	- / 913.861	
Support (All Modification Items)													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18 and EA-18G				Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
3.1) Engineering Change Orders	- / 0.980	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.980	
3.2) Data	- / 2.906	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.906	
3.4) Support Equipment	- / 7.722	- / 0.180	- / 0.183	- / 0.678	- / -	- / 0.678	- / 0.180	- / 0.184	- / 0.189	- / -	- / 0.380	- / 9.696	
3.5) ILS	- / 13.133	- / 1.940	- / 1.975	- / 2.010	- / -	- / 2.010	- / 2.047	- / 2.083	- / 1.227	- / 1.254	- / 3.170	- / 28.839	
3.6) Other Support	- / 47.838	- / 14.201	- / 14.457	- / 14.717	- / -	- / 14.717	- / 11.069	- / 11.280	- / 11.484	- / 11.713	- / 11.689	- / 148.448	
<i>Subtotal: Support</i>	- / 72.579	- / 16.321	- / 16.615	- / 17.405	- / -	- / 17.405	- / 13.296	- / 13.547	- / 12.900	- / 12.967	- / 15.239	- / 190.869	
Installation													
<i>Modification Item 1 of 1:</i> Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)	- / 0.021	- / 0.037	- / 0.020	- / 0.021	- / 0.000	- / 0.021	- / 0.021	- / 1.777	- / 1.665	- / 1.974	- / 1.878	- / 7.414	
<i>Subtotal: Installation</i>	- / 0.021	- / 0.037	- / 0.020	- / 0.021	- / -	- / 0.021	- / 0.021	- / 1.777	- / 1.665	- / 1.974	- / 1.878	- / 7.414	
Total													
Total Cost (Procurement + Support + Installation)	645.753	53.435	53.349	52.745	0.000	52.745	62.941	61.360	52.554	53.606	76.401	1,112.144	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:				
Modification Item 1 of 1: Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)												
Manufacturer Information												
Manufacturer Name: Boeing - ECP 5773R3						Manufacturer Location: St Louis, MO						
Administrative Leadtime (<i>in Months</i>): 3						Production Leadtime (<i>in Months</i>): 12						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: Boeing - TTNT A-Kit						Manufacturer Location: St. Louis, MO						
Administrative Leadtime (<i>in Months</i>): 3						Production Leadtime (<i>in Months</i>): 9						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates				Jan 2020	Jan 2021	Jan 2022	Jan 2023					
Delivery Dates				Oct 2020	Oct 2021	Oct 2022	Oct 2023					
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime (<i>in Months</i>): 0						Production Leadtime (<i>in Months</i>): 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime (<i>in Months</i>): 0						Production Leadtime (<i>in Months</i>): 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Navy Field Modification Team:: Installation Name: TTNT A-Kit												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: TTNT A-Kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 1.755	- / -	- / -	0 / 0.000	39 / 1.755
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 1.665	- / -	0 / 0.000	37 / 1.665
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 1.974	0 / 0.000	43 / 1.974
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 1.878	41 / 1.878
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 1.755	37 / 1.665	43 / 1.974	41 / 1.878	160 / 7.272

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	9	10	9	9	9	11	11	11	10	41	160
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	9	10	9	9	9	11	11	11	10	41	160

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP 577R3

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	14 / 0.021	18 / 0.037	10 / 0.020	10 / 0.021	0 / 0.000	10 / 0.021	10 / 0.021	10 / 0.022	- / -	- / -	0 / 0.000	72 / 0.142
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	14 / 0.021	18 / 0.037	10 / 0.020	10 / 0.021	0 / 0.000	10 / 0.021	10 / 0.021	10 / 0.022	- / -	- / -	0 / 0.000	72 / 0.142

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP 577R3

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	14	-	-	-	18	2	2	3	3	2	2	3	3	2	2	3	3	2	2	3	3	-	-	-	-	-	-	-	-	-	72
Out	14	-	-	-	18	2	2	3	3	2	2	3	3	2	2	3	3	2	2	3	3	-	-	-	-	-	-	-	-	-	72

Method of Implementation (Organic): MIDS JTRS cable sets - Not Installed	Installation Quantity: 1090

Method of Implementation (Organic): ECP 6445 A-kit - Not Installed	Installation Quantity: 1312

Method of Implementation (Organic): MIDS JTRS Upgrades (CMN-4)	Installation Quantity: 392

Method of Implementation (Organic): E/F/G MIDS JTRS TTNT Terminals	Installation Quantity: 531

Footnotes:

⁽¹²⁾ Quantity of 72 kits were procured in prior years and are installed based on aircraft availability.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	382.200	66.901	10.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	459.144
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	382.200	66.901	10.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	459.144
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	382.200	66.901	10.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	459.144
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety Improvement Program (OSIP) upgrades United States Marine Corps (USMC) F/A-18A/B/C/Ds avionics including both hardware and software capabilities. This requirement is critical to meet the Marine Corps requirements for the Tactical Aircraft Integration Plan. The avionics upgrade includes avionics subsystems already incorporated or being incorporated into USMC F/A-18 aircraft. ECP 1153 incorporates the Navy Aircrew Common Ejection Seat (NACES) for utilization with the Joint Helmet Mounted Cueing System (JHMCS) system on C+ aircraft. ECP 1153 adds the following capabilities to C+ aircraft: MIDS LVT; color displays; JHMCS; ALE-47; Tactical Aircraft Moving Map Capability (TAMMAC); and Advanced Memory Unit (AMU). ECP 1153 for B+ will incorporate the NACES, MIDS LVT; color displays; JHMCS; ALE-47; TAMMAC; and AMU on the B+ aircraft. The USMC Higher Order Language (HOL) Upgrade (ECP 634) includes retrofit of F/A-18C/D aircraft with the Advanced Capability Mission Computer (ACMC), display upgrades including the left/right 5x5 Advanced Multi-Purpose Display (AMPD), Up-Front Control Display-Replacement (UFCDR), Multi-Purpose Color Display Replacement (MPCDR), stores management system upgrades, Data Transfer Unit (DTU), upgraded Heads Up Display (HUD) and associated software and engineering requirements. The efforts will include integration of the hardware and the software as well as the Integrated Logistics Support (ILS) products. It will also support updates to Operational Flight Program (OFP) for aircraft modernization and modification efforts which necessitate software releases. The procurement of SCS is not a stand alone cost but integration for the overall improvement to the end item to allow the integration of new capabilities and or performances to be complete. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: OSIP 21-00 has no funding in FY19 due to completion of ECP-1153 (USMC B+/C+ Upgrade) and cancellation of ECP-634 (USMC HOL Upgrade).												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 A/B/C/D				Modification Type: AVIONICS UPGRADE				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)													
A Kits													
Recurring													
1.1.1) ECP-1153 A-kits - NonOrganic		29 / 15.868	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 15.868	
1.1.2) ECP 1153 A Kit RIM - Organic		- / -	15 / 2.701	13 / 1.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 3.912	
1.1.3) ECP-583 USMC Upgrade - NonOrganic		203 / 51.728	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	203 / 51.728	
1.1.4) A-Kits Archive - Organic		216 / 19.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 19.105	
Subtotal: Recurring		- / 86.701	- / 2.701	- / 1.211	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 90.613	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 20.152	- / 14.684	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.836	
Subtotal: Non-Recurring		- / 20.152	- / 14.684	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 34.836	
B Kits													
Recurring													
2.1.1) B-Kits Archive - Organic		- / 245.776	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 245.776	
Subtotal: Recurring		- / 245.776	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 245.776	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 0.944	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.744	
Subtotal: Non-Recurring		- / 0.944	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.744	
Subtotal: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)		448 / 353.573	15 / 18.185	13 / 1.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	476 / 372.969	
Subtotal: Procurement, All Modification Items		- / 353.573	- / 18.185	- / 1.211	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 372.969	
Support (All Modification Items)													
3.2) ECP 634 - USMC HOL Upgrade: Software (H12C SCS)		- / -	- / 16.558	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.558	
3.3) Data		- / 3.069	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.069	
3.4) Training Equipment		- / 0.747	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.747	
3.5) Support Equipment		- / 3.862	- / 1.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.586	
3.6) ILS		- / 3.567	- / 0.158	- / 0.121	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.846	
3.7) Other Support		- / 9.441	- / 17.963	- / 1.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.015	
Subtotal: Support		- / 20.686	- / 36.403	- / 1.732	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 58.821	

UNCLASSIFIED

LI 0525 - F-18 Series
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series		Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)							
Manufacturer Information							
Manufacturer Name: Boeing - ECP 634 - USMC HOL Upgrade F/A-18D (A-Kits)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 21			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Jan 2020	Jan 2021	Jan 2022	
Delivery Dates				Oct 2021	Oct 2022	Oct 2023	
Manufacturer Name: Various - ECP 634 - USMC HOL Upgrade F/A-18C (B-Kits)				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 7				Production Leadtime (<i>in Months</i>): 30			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 634 - USMC HOL Upgrade - F/A-18C (A-Kits)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 21			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Jan 2020	Jan 2021	Jan 2022	
Delivery Dates				Oct 2021	Oct 2022	Oct 2023	
Manufacturer Name: Various - ECP-1153 A-kits				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 20			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Not Specified.				Manufacturer Location: Not Specified..			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

Manufacturer Information

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-1153 A-kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 3.720	14 / 12.292	13 / 7.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	29 / 23.112
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 3.720	14 / 12.292	13 / 7.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	29 / 23.112

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	4	4	3	3	3	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
Out	2	4	4	3	3	3	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-583 USMC Upgrade

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	202 / 4.221	1 / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	203 / 4.242
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-583 USMC Upgrade

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	202 / 4.221	1 / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	203 / 4.242

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	202	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	203		
Out	202	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	203		

Method of Implementation (Organic): ECP 1153 A Kit RIM - Not Installed	Installation Quantity: 28

Method of Implementation (Organic): A-Kits Archive - Not Installed	Installation Quantity: 216

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	296.757	4.042	3.903	3.405	0.000	3.405	0.000	0.000	0.000	0.000	0.000	308.107
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	296.757	4.042	3.903	3.405	0.000	3.405	0.000	0.000	0.000	0.000	0.000	308.107
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	296.757	4.042	3.903	3.405	0.000	3.405	0.000	0.000	0.000	0.000	0.000	308.107
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Joint Helmet-Mounted Cueing System (JHMCS) is a multi-service system that provides United States Air Force (USAF), United States Navy (USN), and United States Marine Corps aircraft the capability to cue and verify on-board weapons and weapons sensors to a specific azimuth/elevation determined by the pilot's head position and to confirm sensor line-of-sight. The intent is to reduce tasks required of aircrews, verify seeker/sensor position, and enhance weapons employment opportunities. The JHMCS incorporates an ejection-compatible helmet-mounted display system, with capability to cue and verify cueing of high off-axis sensors and weapons, on USAF and USN single seat and two seat fighter aircraft. JHMCS night vision cueing and display will provide the ability to cue and display weapons and sensors at night through the initial fielding of a narrow field of view night vision device that integrates the JHMCS cueing and display symbology. SJU-17B Navy Aircrew Common Ejection Seat (NACES), cockpit video recording system and tactical aircraft moving map capability digital map computer are required for retrofit installation of JHMCS. This OSIP also provides for the upgrade modification of SJU-17A NACES, and the replacement of SJU-5 ejection seats with retrofit SJU-17B NACES for Lot 12 F/A-18C aircraft. Installation of Aft Seat JHMCS capability for Lot 23-25 F/A-18F will be performed concurrent with the upgrade retrofit installation of the Type 2 Advanced Mission Computer (AMC) and the Solid State Recorder (SSR) in OSIP 23-04. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: All developmental milestones have been completed. ECP-570R4 has completed its final aircraft integration milestones. AFC-400 Rev A for Lot 12 F/A-18C completed validation/verification and retrofit installation began in 2015. Retrofit installations for Lot 23-25 F/A-18F began in 2016 and will continue through 2019 concurrent with AMC and SSR (OSIP 23-04).												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 and EA-18G			Modification Type: CAPABILITY IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)													
A Kits													
Recurring													
1.1.1) C/D A-Kit - NonOrganic ⁽¹³⁾		362 / 33.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	362 / 33.633	
1.1.2) E/F A-Kit - NonOrganic ⁽¹⁴⁾		178 / 16.609	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	178 / 16.609	
1.1.3) A-Kits Archive - Organic		1,141 / 4.924	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,141 / 4.924	
Subtotal: Recurring		- / 55.166	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 55.166	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 18.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.832	
Subtotal: Non-Recurring		- / 18.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 18.832	
B Kits													
Recurring													
2.1.1) 27C SCS - Organic		- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.022	
2.1.2) B-Kits Archive - Organic		3,466 / 108.392	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,466 / 108.392	
Subtotal: Recurring		- / 108.414	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 108.414	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 1.281	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.281	
Subtotal: Non-Recurring		- / 1.281	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.281	
Subtotal: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)		5,147 / 183.693	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,147 / 183.693	
Subtotal: Procurement, All Modification Items		- / 183.693	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 183.693	
Support (All Modification Items)													
3.1) Engineering Change Orders		- / 0.794	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.794	
3.2) Data		- / 6.508	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.508	
3.4) Support Equipment		174 / 19.585	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	174 / 19.585	
3.5) ILS ⁽¹⁵⁾		- / 23.072	- / 0.170	- / 0.173	- / 0.176	- / -	- / 0.176	- / -	- / -	- / -	- / -	- / 23.591	
3.6) Other Support ⁽¹⁶⁾		- / 15.795	- / 0.132	- / 0.134	- / 0.136	- / -	- / 0.136	- / -	- / -	- / -	- / -	- / 16.197	
Subtotal: Support		- / 65.754	- / 0.302	- / 0.307	- / 0.312	- / -	- / 0.312	- / -	- / -	- / -	- / 0.000	- / 66.675	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 and EA-18G			Modification Type: CAPABILITY IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Installation													
Modification Item 1 of 1: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)	- / 47.310	- / 3.740	- / 3.596	- / 3.093	- / 0.000	- / 3.093	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 57.739	
Subtotal: Installation	- / 47.310	- / 3.740	- / 3.596	- / 3.093	- / -	- / 3.093	- / -	- / -	- / -	- / -	- / 0.000	- / 57.739	
Total													
Total Cost (Procurement + Support + Installation)	296.757	4.042	3.903	3.405	0.000	3.405	0.000	0.000	0.000	0.000	0.000	308.107	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)												
Manufacturer Information												
Manufacturer Name: Boeing - E/F A-kits							Manufacturer Location: St Louis, MO					
Administrative Leadtime (<i>in Months</i>): 14							Production Leadtime (<i>in Months</i>): 14					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: Boeing - C/D A-kits							Manufacturer Location: St Louis, MO					
Administrative Leadtime (<i>in Months</i>): 15							Production Leadtime (<i>in Months</i>): 16					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Navy Field Modification Team:: Installation Name: C/D A-Kit												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	301 / 32.641	22 / 2.193	16 / 1.735	23 / 2.384	0 / 0.000	23 / 2.384	- / -	- / -	- / -	- / -	0 / 0.000	362 / 38.953
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	301 / 32.641	22 / 2.193	16 / 1.735	23 / 2.384	0 / 0.000	23 / 2.384	- / -	- / -	- / -	- / -	0 / 0.000	362 / 38.953

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0525 / F-18 Series											Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)																															
Installation Information																															
Method of Implementation: Navy Field Modification Team:: Installation Name: C/D A-Kit																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	301	5	5	6	6	4	4	4	4	5	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	362
Out	301	5	5	6	6	4	4	4	4	5	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	362
Method of Implementation: Navy Field Modification Team:: Installation Name: E/F A-Kit																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		135 / 14.669		14 / 1.547		21 / 1.861		8 / 0.709		0 / 0.000		8 / 0.709		- / -		- / -		- / -		- / -		0 / 0.000		178 / 18.786							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		135 / 14.669		14 / 1.547		21 / 1.861		8 / 0.709		0 / 0.000		8 / 0.709		- / -		- / -		- / -		- / -		- / -		0 / 0.000		178 / 18.786					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	135	4	4	3	3	5	5	5	6	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	178
Out	135	4	4	3	3	5	5	5	6	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	178
Method of Implementation (Organic): A-Kits Archive - Not Installed																							Installation Quantity: 1141								
Method of Implementation (Organic): B-Kits Archive - Not Installed																							Installation Quantity: 3466								

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: (13) Install costs vary due to significant differences in work required by type/model/series and location performed. Labor rates vary depending upon whether work is performed Continental United States (CONUS) or Outside Continental United States (OCONUS), and by commercial or organic depots. (14) Install costs vary due to significant differences in work required by Type Model Series and location performed. Labor rates vary depending upon whether work is performed CONUS or OCONUS, and by Commercial or Organic depots. (15) Due to installs being performed in FY18 and FY19, ILS funding is required. (16) Due to installs being performed in FY18 and FY19, Other Support funding is required.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	929.526	2.202	2.850	1.836	0.000	1.836	10.042	12.950	7.145	45.551	207.758	1,219.860
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	929.526	2.202	2.850	1.836	0.000	1.836	10.042	12.950	7.145	45.551	207.758	1,219.860
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	929.526	2.202	2.850	1.836	0.000	1.836	10.042	12.950	7.145	45.551	207.758	1,219.860
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Advanced Targeting Forward Looking Infrared (ATFLIR) (Operational Requirements Document# 700-88-06) will provide the F/A-18A+/C/D/E/F and E/A-18G with an enhanced capability to detect, track and attack air and ground targets. Laser guided and global positioning system standoff weapon systems with greater standoff ranges require improved performance over second generation targeting pods. The ATFLIR currently utilizes the third generation of forward looking infrared technology and provides a quantum leap in operational effectiveness to fully support the standoff precision strike mission. This Operational, Safety and Improvement Program (OSIP) is used to perform efforts to address parts obsolescence and to examine and incorporate potential ATFLIR-related capability upgrades associated with network centric operations, interoperability requirements, and upgraded targeting capability requirements. ATFLIR modernization upgrade will be a set of ECPs designed to improve the reliability and maintainability of the pod while mitigating numerous obsolescence issues. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: ATFLIR development began in FY1997. Full rate production approval was given in October 2003. Full Operational Capability was met in July 2010. Motion Compensation and Electro-Optical Daylight Operations Improvement upgrades commenced June 2009.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A+/C/D/E/F				Modification Type: CAPABILITY IMPROVEMENTS				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)													
A Kits													
Recurring													
1.1.1) ARDL (A6) Kits (ECP 6342) - NonOrganic		264 / 1.527	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	264 / 1.527	
1.1.2) ARDL (A3, A4, A8, A9) Kits (ECP 6342) - NonOrganic ⁽¹⁷⁾		1,423 / 10.672	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,423 / 10.672	
1.1.3) ATFLIR Modernization Upgrade - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 6.300	148 / 44.400	348 / 124.236	514 / 174.936	
Subtotal: Recurring		- / 12.199	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.300	- / 44.400	- / 124.236	- / 187.135	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 6.128	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.128	
Subtotal: Non-Recurring		- / 6.128	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.128	
B Kits													
Recurring													
2.1.1) ATFLIR EOSU ECP10 - RTOC - NonOrganic		401 / 19.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	401 / 19.560	
2.1.2) H16 SCS - Organic		- / -	- / -	- / 1.072	- / 0.292	- / -	- / 0.292	- / -	- / -	- / -	- / -	- / 1.364	
2.1.3) ECP-0035 Daylight Ops - Organic ⁽¹⁸⁾		210 / 25.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	210 / 25.350	
2.1.4) B-Kits Archive - Organic		- / 517.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 517.094	
Subtotal: Recurring		- / 562.004	- / -	- / 1.072	- / 0.292	- / -	- / 0.292	- / -	- / -	- / -	- / 0.000	- / 563.368	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽¹⁹⁾		- / 82.612	- / 0.846	- / -	- / -	- / -	- / 10.000	- / 12.250	- / -	- / -	- / -	- / 105.708	
Subtotal: Non-Recurring		- / 82.612	- / 0.846	- / -	- / -	- / -	- / 10.000	- / 12.250	- / -	- / -	- / 0.000	- / 105.708	
Subtotal: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)		2,298 / 662.943	- / 0.846	- / 1.072	- / 0.292	- / -	- / 0.292	- / 10.000	- / 12.250	18 / 6.300	148 / 44.400	348 / 124.236	2,812 / 862.339
Subtotal: Procurement, All Modification Items		- / 662.943	- / 0.846	- / 1.072	- / 0.292	- / -	- / 0.292	- / 10.000	- / 12.250	- / 6.300	- / 44.400	- / 124.236	- / 862.339
Support (All Modification Items)													
3.1) Engineering Change Orders		- / 94.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 94.710	
3.2) Data		- / 8.506	- / -	- / 0.141	- / 0.198	- / -	- / 0.198	- / -	- / 0.131	- / 0.134	- / -	- / 9.110	
3.3) Training Equipment		- / 4.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.315	
3.4) Support Equipment		- / 66.781	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.289	- / -	- / 67.070	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18A+/C/D/E/F				Modification Type: CAPABILITY IMPROVEMENTS				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
3.5) ILS	- / 74.148	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 0.204	- / 0.208	- / 1.040	- / 75.800	
3.6) Other Support	- / 12.177	- / 0.669	- / 0.435	- / 0.443	- / -	- / 0.443	- / 0.014	- / 0.500	- / 0.510	- / 0.520	- / 2.601	- / 17.869	
<i>Subtotal: Support</i>	- / 260.637	- / 0.669	- / 0.576	- / 0.641	- / -	- / 0.641	- / 0.014	- / 0.700	- / 0.845	- / 1.151	- / 3.641	- / 268.874	
Installation													
Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)	- / 5.946	- / 0.687	- / 1.202	- / 0.903	- / 0.000	- / 0.903	- / 0.028	- / 0.000	- / 0.000	- / 0.000	- / 79.881	- / 88.647	
<i>Subtotal: Installation</i>	- / 5.946	- / 0.687	- / 1.202	- / 0.903	- / -	- / 0.903	- / 0.028	- / -	- / -	- / -	- / 79.881	- / 88.647	
Total													
Total Cost (Procurement + Support + Installation)	929.526	2.202	2.850	1.836	0.000	1.836	10.042	12.950	7.145	45.551	207.758	1,219.860	

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)							
Manufacturer Information							
Manufacturer Name: Boeing - ARDL (A3, A4, A8, A9)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA & FRC SW North Island				Manufacturer Location: Orange Park, Florida & San Diego, CA			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Raytheon - ATFLIR EOSU ECP 10				Manufacturer Location: McKinney, TX			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Raytheon				Manufacturer Location: Indianapolis, IN			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates						Mar 2022	Mar 2023
Delivery Dates						Sep 2023	Sep 2024
Manufacturer Name: Raytheon - ATFLIR Modernization Upgrade				Manufacturer Location: Indianapolis, IN			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates						Mar 2022	Mar 2023
Delivery Dates						Sep 2023	Sep 2024
Manufacturer Name: CKA				Manufacturer Location: Orange park, Fl			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Manufacturer Information

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: ARDL

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1,298 / 4.178	70 / 0.375	172 / 1.034	140 / 0.903	0 / 0.000	140 / 0.903	7 / 0.028	- / -	- / -	- / -	0 / 0.000	1,687 / 6.518
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,298 / 4.178	70 / 0.375	172 / 1.034	140 / 0.903	0 / 0.000	140 / 0.903	7 / 0.028	- / -	- / -	- / -	0 / 0.000	1,687 / 6.518

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,298	17	17	18	18	43	43	43	43	35	35	35	35	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1,687
Out	1,298	17	17	18	18	43	43	43	43	35	35	35	35	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1,687

Method of Implementation: Navy Drive In Mod:: Installation Name: ATFLIR

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	325 / 1.768	52 / 0.312	24 / 0.168	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	401 / 2.248
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Installation Information

Method of Implementation: Navy Drive In Mod:: Installation Name: ATFLIR

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 2.700	18 / 2.700
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 2.781	148 / 2.781
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	348 / 74.400	348 / 74.400
Total	325 / 1.768	52 / 0.312	24 / 0.168	- / -	- / -	- / -	- / -	- / -	- / -	- / -	514 / 79.881	915 / 82.129

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	325	13	13	13	13	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	514	915		
Out	325	13	13	13	13	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	514	915		

Method of Implementation (Organic): ECP-0035 Daylight Ops **Installation Quantity:** 210

Footnotes:

- (17) The installation of ARDL (A3, A4, A8, A9) kits has been delayed due to aircraft availability based on the requirements needed to train and prepare for deployment.
- (18) O-level installs for ECP-0035 will complete in FY18.
- (19) Funding for non-recurring engineering in FY20 and FY21 is for the ATFLIR Modernization program.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	228.699	31.626	21.428	34.722	0.000	34.722	39.770	40.344	41.070	41.893	384.422	863.974
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	228.699	31.626	21.428	34.722	0.000	34.722	39.770	40.344	41.070	41.893	384.422	863.974
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	228.699	31.626	21.428	34.722	0.000	34.722	39.770	40.344	41.070	41.893	384.422	863.974
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: F/A-18C-F and EA-18G training funds will be used to meet current fleet readiness squadron and fleet training and readiness requirements. These requirements mandate that the training systems be concurrent with the aircraft hardware, software, and capabilities. New components and software will be procured to prevent obsolescence of the various trainers throughout the service life of the platform. Funding will also be used to update courseware, computer based training, and maintenance trainers as Engineering Change Proposals (ECPs) are performed on the aircraft. Funds will be used to increase the simulation fidelity of any aircraft driven changes, implement these changes across a distributed architecture, and synthesize these changes into the simulated threat environment. Funds will also be used to enable live, virtual and constructive (LVC) training; linking aircrew training devices and synthetic injects with aircraft flying on live ranges. Current trainer inventory is 56 maintenance trainers with 32 devices for F/A-18 EF and EA-18 G and 24 devices for F/A-18 C-D and 65 aircrew training devices and 93 aircrew cockpits with 39 devices and 62 cockpits for F/A-18 EF and EA-18 G and 26 devices and 31 cockpits for F/A-18 C-D. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Trainers were procured with APN-1 funding and are modified with ECPs as required.												

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LI 0525 - F-18 Series
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A					Manufacturer Location: N/A		
Administrative Leadtime (<i>in Months</i>):					Production Leadtime (<i>in Months</i>):		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation						Installation Quantity: 0	
Footnotes: ⁽²⁰⁾ Aircrew devices are upgraded on a yearly cycle and the maintenance devices on a two to three year cycle.							

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	570.118	149.947	124.794	140.042	0.000	140.042	217.884	173.837	170.950	280.411	132.481	1,960.464
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	570.118	149.947	124.794	140.042	0.000	140.042	217.884	173.837	170.950	280.411	132.481	1,960.464
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	570.118	149.947	124.794	140.042	0.000	140.042	217.884	173.837	170.950	280.411	132.481	1,960.464
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Corrections to discrepancies discovered during testing and development can sometimes be incorporated into production aircraft, effective with the physical configuration audit which establishes the product baseline of the aircraft. However, when this cannot be done due to time constraints, retrofit of the changes into already delivered aircraft requires funding through the Aircraft Modification Program. Corrections to the following items/conditions are required to meet Commander, Naval Air Force directed transitions as promulgated in the current Master Aviation Plan. This Operational, Safety and Improvement Program (OSIP) will correct operational discrepancies discovered during testing and evaluations, sustainment activities, engineering analysis, standard depot level evaluations, and during normal fleet operations. This OSIP provides resources to correct such issues via Engineering Change Proposal (ECP) and other applicable procurement efforts by modifying, improving, and restoring aircraft structural safety and reliability to designed/required life limits. Modifications are to include: Air Frame Structural Upgrades, such as Flight Controls Surfaces, Forward Fuselage, Aft Fuselage, Inner/Outer Wing, Critical Structures; and Aircraft Subsystem Upgrades, such as Electrical, Hydraulic, Environmental Control Systems (ECS), Fuel, Launch & Recovery, Critical Structures, Mechanical, Secondary Power, Fire Suppression Systems, Blue Angels modifications, and other sustainment activities. This OSIP will provide modifications to Flight Control Computer (FCC) Operational Flight Programs (OFP) and provide other upgrades to integrate Maritime Augmented Guidance with Integrated Controls for Carrier Approach and Recovery Precision Enabling Technologies (MAGIC CARPET), Phase 2, Step 2. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Each change has been or will be tested prior to installation in the F/A-18E/F and EA-18G. NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog. Any disruptions to the current budget will disrupt on-going modifications required to address OOR aircraft. ECPs (6416, 6477, 6478, 6488, and 6500) for Physiological Episodes (PE) efforts are realigned from OSIP 14-03 to OSIP 13-19 beginning in FY19.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18 E/F & EA-18G					Modification Type: SAFETY /RELIABILITY/IMPROVEMENT					Related RDT&E PEs:			
Financial Plan		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement													
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)													
A Kits													
Recurring													
1.1.1) ECP-1049 Fuel Pressurization System Check Valve Failure - NonOrganic		59 / 0.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 0.098
1.1.2) ECP-1137NI: Fire Extinguisher Temp Compensating Pressure Switch (TCPS) - NonOrganic		14 / 0.033	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.033
1.1.3) ECP-5046C1 BALD Transponder Rotation - Change Incorporation Level - NonOrganic		133 / 0.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	133 / 0.090
1.1.4) ECP-5073: Retrofit of the Trailing Edge Flap Fastener Hole Cold Working - NonOrganic		35 / 0.102	34 / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	69 / 0.177
1.1.5) ECP 615 GGU-12/A Catalyst Sieve Bed Sets - Organic		- / -	12 / 0.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.076
1.1.6) ECP-6089R1 Engine Bay Door Strut Redesign - NonOrganic		69 / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	69 / 0.003
1.1.7) ECP-6106R1 Exhaust Overtemp Final Fix/Bard Stacks - NonOrganic		223 / 15.966	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	223 / 15.966
1.1.8) ECP-6118 Keel Access Cover @ Y631-Y645 - NonOrganic ⁽²¹⁾		18 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.000
1.1.9) ECP-6127 Keel Web Fittings Aft of Y472 - NonOrganic ⁽²²⁾		44 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 0.000
1.1.10) ECP-6128 Fuel Floor Support Angle @ Y470 - NonOrganic ⁽²³⁾		21 / 0.779	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.779
1.1.11) ECP-6135 Aft Fuselage Inboard Former Crack @Y618 - NonOrganic ⁽²⁴⁾		2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
1.1.12) ECP-6137 Drive Hinge, NLG R/H Forward Door - NonOrganic ⁽²⁵⁾		2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
1.1.13) ECP-6142 Missile Launcher Bay Clost Out Web - NonOrganic ⁽²⁶⁾		2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
1.1.14) ECP-6144 12K SFH Y461 Clip Crack - NonOrganic ⁽²⁷⁾		2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
1.1.15) ECP-6160 Y591 Bulkhead Stiffener Fillet Crack - NonOrganic ⁽²⁸⁾		2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 E/F & EA-18G			Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.16) ECP-6165 AOA Probe & Boarding Ladder Switch - NonOrganic ⁽²⁹⁾	2 / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.021	
1.1.17) ECP-6169R1 AMAD Door Generator Interference - NonOrganic ⁽³⁰⁾	60 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.000	
1.1.18) ECP-6188 Y436 Inlet Former - NonOrganic	183 / 1.912	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	183 / 1.912	
1.1.19) ECP-6193R1/R2 (LEX) Lwr Surface/Structure Cracks Redesign Y286 / Y294 - NonOrganic	219 / 27.472	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	219 / 27.472	
1.1.20) ECP-6198 Radar Bay Vent Valve Fail - MSP 862 - NonOrganic	91 / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 0.005	
1.1.21) ECP-6206 Y679 Former Boot Strap Interface Fillet Seal Missing - NonOrganic	80 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 0.014	
1.1.22) ECP-6213R2 / TEF Redesign - Organic	98 / 77.246	48 / 43.284	23 / 28.005	12 / 15.104	- / -	12 / 15.104	74 / 66.788	78 / 71.665	81 / 77.125	90 / 92.142	39 / 40.647	543 / 512.006	
1.1.23) ECP-6217 Cockpit Pressure Warning System (CPWS) - NonOrganic	292 / 2.869	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	292 / 2.869	
1.1.24) ECP-6221 Bay 4L-Y357 Bulkhead Horizontal Flange Life Limit - NonOrganic	109 / 1.028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	109 / 1.028	
1.1.25) ECP-6227C2/C3 Inlet Nacelle Bleed Plate Crack - NonOrganic	216 / 3.458	- / -	72 / 1.144	12 / 0.187	- / -	12 / 0.187	- / -	- / -	- / -	- / -	- / -	300 / 4.789	
1.1.26) ECP-6231 ECS/APU Bay Sealing Issues - NonOrganic ⁽³¹⁾	9 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.000	
1.1.27) ECP-6234C1 Horizontal Stabilator/Fuselage Rubbing - NonOrganic	35 / 0.323	- / -	30 / 0.110	- / -	- / -	- / -	30 / 0.303	30 / 0.308	30 / 0.314	30 / 0.319	103 / 1.117	288 / 2.794	
1.1.28) ECP-6238 Inadequate Clearance - APU Surge Cntrl Valve & Y568 Spt - NonOrganic	124 / 0.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	124 / 0.054	
1.1.29) ECP-6240R1 / FT50 18K MLG Sidebrace Fitting Failure - NonOrganic	296 / 13.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	296 / 13.430	
1.1.30) ECP-6245 Inboard Wing Closure Bolt, Anti- Rotation Retainer - NonOrganic	21 / 0.247	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.247	
1.1.31) ECP-6249 Nut Plate Installation Sealing - NonOrganic	212 / 0.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	212 / 0.107	
1.1.32) ECP-6262 Y591 Bulkhead Missing Fasteners at Keel Longeron - NonOrganic	181 / 1.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	181 / 1.082	
1.1.33) ECP-6301 Doors 37, 307, and 124 Drainage Issues - NonOrganic ⁽³²⁾	51 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 0.000	
1.1.34) ECP-6308 ECS warm air duct deflections - NonOrganic	218 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	218 / 0.000	

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 E/F & EA-18G			Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.35) ECP-6322 Dry Bay Fire Suppression System (DBFSS) - NonOrganic	277 / 0.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	277 / 0.417	
1.1.36) ECP-6325R1 Y618 Inbrd Former / Keel Longeron Arrestment Load - NonOrganic	458 / 0.519	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	458 / 0.519	
1.1.37) ECP-6353 F/A-18E/F Lower Wing Hinge Corrosion Improvements - NonOrganic	204 / 1.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	204 / 1.995	
1.1.38) ECP-6366 Outer-Wing Inboard Aileron Hinge and SPAR 4 - NonOrganic	84 / 1.623	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	84 / 1.623	
1.1.39) ECP-6372 Y233 Bulkhead Rudder / Break Pully Bracket Attachment - NonOrganic	351 / 0.118	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	351 / 0.118	
1.1.40) ECP-6388 Outer-Wing Water Drainage Provisions - NonOrganic	338 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	338 / 0.000	
1.1.41) ECP-6394R1: F/A-18E/F Horizontal Stab Gang Channel Corrosion-AYC-1682 - NonOrganic ⁽³³⁾	- / -	72 / 0.000	72 / 0.000	60 / 0.000	- / -	60 / 0.000	60 / 0.000	14 / 0.000	14 / 0.000	- / -	- / -	292 / 0.000	
1.1.42) ECP-6394R1 Horizontal Stabilator Gang Channel Corrosion - AYC-1717 - NonOrganic	92 / 0.687	- / -	45 / 0.316	- / -	- / -	- / -	45 / 0.369	45 / 0.376	45 / 0.391	45 / 0.398	156 / 1.404	473 / 3.941	
1.1.43) ECP-6392C1 F/A-18E/F & EA-18G Alternate Angle-of-Attack Transmitter - Organic	- / -	- / -	- / -	120 / 5.375	- / -	120 / 5.375	120 / 5.472	120 / 5.570	112 / 5.293	- / -	- / -	472 / 21.710	
1.1.44) ECP-6416 Environment Control Sys Anti-Ice Duct Bracket - NonOrganic	98 / 0.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	98 / 0.888	
1.1.45) ECP 6417C1 - Cabin Diverter Valve Redesign - Organic	- / -	2 / 0.147	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.147	
1.1.46) ECP-6428 Removal of Vertical Tail Drain Common to Fuel Vent Tank - NonOrganic	435 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	435 / 0.000	
1.1.47) ECP-6430 Enhancement of the Aft Pivot Support Fitting - NonOrganic	432 / 3.942	- / -	- / -	- / -	- / -	- / -	72 / 0.795	72 / 0.589	- / -	- / -	74 / 0.813	650 / 6.139	
1.1.48) ECP-XX12 FT50 Teardown Bulkhead Cracking - NonOrganic	- / -	- / -	72 / 0.961	72 / 0.978	- / -	72 / 0.978	72 / 0.996	72 / 1.014	37 / 0.530	- / -	- / -	325 / 4.479	
1.1.49) ECP-XX33 / Hydraulics Components Improvement - NonOrganic	- / -	- / -	72 / 0.068	72 / 0.069	- / -	72 / 0.069	72 / 0.070	- / -	- / -	- / -	- / -	216 / 0.207	
1.1.50) ECP-XX45 / FT50 Structural Related Issues - NonOrganic	- / -	- / -	72 / 6.153	72 / 6.263	- / -	72 / 6.263	72 / 6.376	72 / 6.491	37 / 3.396	- / -	- / -	325 / 28.679	
1.1.51) ECP-XX48 / Fuel Tank Wiring Retrofit Improvements - NonOrganic	- / -	- / -	72 / 0.435	72 / 0.443	- / -	72 / 0.443	72 / 0.451	72 / 0.459	72 / 0.467	109 / 0.720	- / -	469 / 2.975	
1.1.52) ECP-XX50: F/A-18E/F Fuel Related Upgrade Issues - Organic	- / -	- / -	100 / 0.605	100 / 0.615	- / -	100 / 0.615	100 / 0.627	100 / 0.638	100 / 0.649	- / -	- / -	500 / 3.134	
1.1.53) ECP-XX51 / F/A-18E/F ECS Subsystem Upgrade Issues - NonOrganic	- / -	- / -	72 / 0.492	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.492	

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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 E/F & EA-18G			Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.54) ECP-XX52 / F/A-18E/F Subsystem Retrofit Upgrade Issues - NonOrganic	- / -	- / -	72 / 0.615	72 / 0.626	- / -	72 / 0.626	72 / 0.638	72 / 0.649	72 / 0.661	140 / 1.308	- / -	500 / 4.497	
1.1.55) ECP-XX53 / F/A-18E/F Structure Stress Corrosion Cracking Issues - NonOrganic	- / -	- / -	72 / 1.641	72 / 1.670	- / -	72 / 1.670	72 / 1.700	72 / 1.731	72 / 1.762	140 / 3.488	- / -	500 / 11.992	
1.1.56) ECP-XX55: F/A-18 OBOGS Catalyst Integration Modline - NonOrganic	- / -	- / -	72 / 0.082	72 / 0.084	- / -	72 / 0.084	72 / 0.085	72 / 0.087	72 / 0.088	140 / 0.174	- / -	500 / 0.600	
1.1.57) ECP-XX60: NACES Retrofit Upgrades - Organic	- / -	- / -	100 / 1.689	100 / 1.689	- / -	100 / 1.689	100 / 1.720	100 / 1.751	100 / 1.782	25 / 0.454	- / -	525 / 9.085	
1.1.58) XX61 - BLK III CFT Upgrade - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 111.600	- / -	31 / 111.600	
1.1.59) ECP-6475 Aux Power Unit Hydraulic Accumulator Support Bracket - NonOrganic	- / -	72 / 1.644	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 1.644	
1.1.60) ECP-6476 In-Flight Refueling Pressure Regulator Removal - Organic	- / -	582 / 0.873	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	582 / 0.873	
1.1.61) ECP-6478 ECS Items 51 & 26 Improvements - Organic ⁽³⁴⁾	- / -	4 / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.050	
1.1.62) ECP-6480: Navy Flight Demo Squadron (Blue Angels) Super Hornet - NonOrganic	- / -	11 / 12.000	- / -	7 / 7.907	- / -	7 / 7.907	- / -	- / -	- / -	- / -	- / -	18 / 19.907	
1.1.63) ECP-6487: Retrofit to Address Y491 Bulkhead Cracks - NonOrganic	- / -	- / -	18 / 0.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.183	
1.1.64) ECP 6488 - Secondary Bleed air regualator & Shut Off Valve Improvement - Organic	- / -	2 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	
1.1.65) ECP-6495 STS Electrohydraulic Test Stand Obsolescence Upgrade - NonOrganic	- / -	- / -	5 / 7.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 7.200	
1.1.66) ECP-6499 Update of the Lateral Stick Position Sensor - NonOrganic	- / -	- / -	- / -	100 / 2.500	- / -	100 / 2.500	100 / 2.545	100 / 2.591	100 / 2.637	100 / 2.685	100 / 2.733	600 / 15.691	
1.1.67) ECP-9557MB: NACES Upgrade (Sequencer) - Organic	- / -	- / -	- / -	5,250 / 8.200	- / -	5,250 / 8.200	- / -	- / -	- / -	- / -	- / -	5,250 / 8.200	
1.1.68) Fatigue Test (FT) 50 (Structures) Prior Year ECPs - NonOrganic ⁽³⁵⁾	3,315 / 12.169	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,315 / 12.169	
1.1.69) Fatigue Test (FT) 76/77/78 (Wing) Prior Year ECPs - NonOrganic ⁽³⁶⁾	834 / 31.675	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	834 / 31.675	
1.1.70) Main Landing Gear (MLG) Prior Year ECPs - NonOrganic ⁽³⁷⁾	200 / 0.606	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 0.606	
1.1.71) Archived ECPs - Organic	- / 57.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 57.685	
Subtotal: Recurring	- / 258.663	- / 58.349	- / 49.699	- / 51.710	- / -	- / 51.710	- / 88.935	- / 93.919	- / 95.095	- / 213.288	- / 46.714	- / 956.372	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽³⁸⁾	- / 54.394	- / 31.483	- / 5.891	- / 15.959	- / -	- / 15.959	- / 28.260	- / 7.950	- / 8.209	- / 6.158	- / 7.382	- / 165.686	

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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 E/F & EA-18G					Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT				Related RDT&E PEs:				

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Non-Recurring</i>	- / 54.394	- / 31.483	- / 5.891	- / 15.959	- / -	- / 15.959	- / 28.260	- / 7.950	- / 8.209	- / 6.158	- / 7.382	- / 165.686
<i>Subtotal: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)</i>	10,241 / 313.057	839 / 89.832	1,041 / 55.590	6,265 / 67.669	- / -	6,265 / 67.669	1,205 / 117.195	1,091 / 101.869	944 / 103.304	850 / 219.446	472 / 54.096	22,948 / 1,122.058
<i>Subtotal: Procurement, All Modification Items</i>	- / 313.057	- / 89.832	- / 55.590	- / 67.669	- / -	- / 67.669	- / 117.195	- / 101.869	- / 103.304	- / 219.446	- / 54.096	- / 1,122.058
Support (All Modification Items)												
3.2) Software ⁽³⁹⁾	- / -	- / 0.456	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.456
3.3) Data	- / 3.514	- / 0.271	- / -	- / 0.281	- / -	- / 0.281	- / 0.286	- / 0.291	- / 0.296	- / 0.302	- / 0.307	- / 5.548
3.4) Training Equipment	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001
3.5) Support Equipment ⁽⁴⁰⁾	- / 16.780	- / 7.909	- / 3.960	- / 4.031	- / -	- / 4.031	- / 4.104	- / 4.178	- / 4.253	- / 4.330	- / 4.407	- / 53.952
3.6) ILS	- / 78.314	- / 14.993	- / 14.986	- / 15.254	- / -	- / 15.254	- / 15.529	- / 15.807	- / 15.503	- / 16.971	- / 16.677	- / 204.034
3.7) Other Support	- / 58.031	- / 10.811	- / 10.678	- / 10.871	- / -	- / 10.871	- / 11.066	- / 11.265	- / 11.468	- / 11.675	- / 11.885	- / 147.750
3.9) Installation Cost ⁽⁴¹⁾	257 / 20.697	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	257 / 20.697
<i>Subtotal: Support</i>	- / 177.337	- / 34.440	- / 29.624	- / 30.437	- / -	- / 30.437	- / 30.985	- / 31.541	- / 31.520	- / 33.278	- / 33.276	- / 432.438
Installation												
<i>Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)</i>	- / 79.724	- / 25.675	- / 39.580	- / 41.936	- / 0.000	- / 41.936	- / 69.704	- / 40.427	- / 36.126	- / 27.687	- / 45.109	- / 405.968
<i>Subtotal: Installation</i>	- / 79.724	- / 25.675	- / 39.580	- / 41.936	- / -	- / 41.936	- / 69.704	- / 40.427	- / 36.126	- / 27.687	- / 45.109	- / 405.968
Total												
Total Cost (Procurement + Support + Installation)	570.118	149.947	124.794	140.042	0.000	140.042	217.884	173.837	170.950	280.411	132.481	1,960.464

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ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
Manufacturer Information							
Manufacturer Name: ECP 6477				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates			Dec 2019	Dec 2020	Dec 2021	Dec 2022	Dec 2023
Manufacturer Name: ECP 6500 - Boeing				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates			Sep 2019	Sep 2020	Sep 2021	Sep 2022	Sep 2023
Manufacturer Name: Boeing - ECP 6488				Manufacturer Location: Boeing - St. Louis			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Sep 2017						
Delivery Dates	Mar 2019						
Manufacturer Name: Boeing - ECPs 6416 Environmental Control Sys Anti-Ice Duct Bracket				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 6462 Flight Control Computer OFP				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021		
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021		
Manufacturer Name: Meggitt - ECP 1137/Redesign of Fire Extinguisher Temp. Compensating Pressure Switch				Manufacturer Location: Simi Valley, CA			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 12			

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ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP-6106R1 Exhaust Overtemp Final Fix/Bard Stacks				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP-6193R1/R2 (LEX) Lwr Surface/Structure Cracks Redesign Y286 / Y294				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 22			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP 5073 Retrofit of the Trailing Edge Flap Fastener Hole Cold Working				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Sep 2017						
Delivery Dates	Mar 2019						
Manufacturer Name: Boeing - ECP 6118				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 6128				Manufacturer Location: St. Louis			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

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ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates							
Manufacturer Name: Boeing - ECP-6227C2/C3 Inlet Nacelle Bleed Plate Crack				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 9				Production Leadtime (<i>in Months</i>): 34			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jun 2018	Jun 2019				
Delivery Dates		Apr 2021	Apr 2022				
Manufacturer Name: Boeing - ECP 6495				Manufacturer Location: Boeing - St. Louis			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Mar 2019					
Delivery Dates		Sep 2019					
Manufacturer Name: Boeing - ECP 6234/C1 Horizontal Stabilator/Fuselage Rubbing				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Oct 2018		Oct 2020	Oct 2021	Oct 2022	Oct 2023
Delivery Dates		Oct 2019		Oct 2021	Oct 2022	Oct 2023	Oct 2024
Manufacturer Name: Boeing - ECP 6430 Enhancement of the Aft Pivot Support Fitting				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 19			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Sep 2020	Sep 2021		
Delivery Dates				Apr 2022	Apr 2023		
Manufacturer Name: Various - ECP-6480: Navy Flight Demo Squadron (Blue Angels) Super Hornet				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 10				Production Leadtime (<i>in Months</i>): 35			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2017		Jul 2019				
Delivery Dates	Jun 2020		Jun 2022				
Manufacturer Name: Various - Prior Year Procurements Less than \$5M ⁽⁴²⁾				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 36			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Various - Fatigue Test (FT) 50 (Structures) Prior Year ECPs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Various - Fatigue Test (FT) 76/77/78 (Wing) Prior Year ECPs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Various - E/F Concurrent Installs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 16			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022	
Delivery Dates		Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023	
Manufacturer Name: Boeing - E/F A-kits				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 16			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022	
Delivery Dates		Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023	
Manufacturer Name: Various - Main Landing Gear (MLG) Prior Year ECPs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 6240R1 FT50 18K MLG Sidebrace Fitting Failure				Manufacturer Location: St. Louis, MO			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
Manufacturer Information							
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 36			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 6394R1 F/A-18E/F Horizontal Stab Gang Channel Corrosion				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021	
Delivery Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	
Manufacturer Name: Boeing - ECP-6394R1 Horizontal Stabilator Gang Channel Corrosion - AYC-1717				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Mar 2018		Mar 2020	Mar 2021	Mar 2022	Mar 2023
Delivery Dates		Oct 2019		Oct 2021	Oct 2022	Oct 2023	Oct 2024
Manufacturer Name: Boeing - ECP-6475 Aux Power Unit Hydraulic Accumulator Support Bracket				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 18				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2018						
Delivery Dates	Sep 2018						
Manufacturer Name: Boeing - ECP-6487: Retrofit to Address Y491 Bulkhead Cracks				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Mar 2018					
Delivery Dates		Oct 2019					
Manufacturer Name: BOEing - ECP 6499				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)																															
Manufacturer Information																															
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Delivery Dates										Sep 2019				Sep 2020				Sep 2021				Sep 2022				Sep 2023					
Manufacturer Name: Boeing - ECP 6478															Manufacturer Location: Various																
Administrative Leadtime (<i>in Months</i>): 10															Production Leadtime (<i>in Months</i>): 15																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Jul 2017																													
Delivery Dates		Oct 2018																													
Installation Information																															
Method of Implementation: Navy Drive-in Modification:: Installation Name: Prior Year Procurements																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		5,077 / 78.449	961 / 24.685	939 / 28.951	927 / 31.449	0 / 0.000	927 / 31.449	729 / 31.685	380 / 17.077	100 / 5.849	58 / 5.208	64 / 7.135	9,235 / 230.488																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		5,077 / 78.449	961 / 24.685	939 / 28.951	927 / 31.449	0 / 0.000	927 / 31.449	729 / 31.685	380 / 17.077	100 / 5.849	58 / 5.208	64 / 7.135	9,235 / 230.488																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5,077	237	237	246	241	240	236	232	231	228	230	241	228	183	183	184	179	101	102	92	85	33	24	24	19	17	12	14	15	64	9,235
Out	5,077	237	237	246	241	240	236	232	231	228	230	241	228	183	183	184	179	101	102	92	85	33	24	24	19	17	12	14	15	64	9,235

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-5073: Retrofit of the Trailing Edge Flap Fastene

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	17 / 0.110	18 / 0.117	0 / 0.000	18 / 0.117	- / -	- / -	- / -	- / -	0 / 0.000	35 / 0.227
FY 2017	- / -	- / -	- / -	18 / 0.117	0 / 0.000	18 / 0.117	16 / 0.000	- / -	- / -	- / -	0 / 0.000	34 / 0.117
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	17 / 0.110	36 / 0.234	0 / 0.000	36 / 0.234	16 / 0.000	- / -	- / -	- / -	0 / 0.000	69 / 0.344

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	8	9	9	9	9	9	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69
Out	-	-	-	-	-	-	-	8	9	9	9	9	9	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6227C2/C3 Inlet Nacelle Bleed Plate Crack

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 1.267	11 / 0.486	72 / 3.380	48 / 2.196	0 / 0.000	48 / 2.196	48 / 2.236	35 / 1.138	- / -	- / -	0 / 0.000	216 / 10.703
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 1.138	36 / 1.078	- / -	0 / 0.000	72 / 2.216
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.590	- / -	0 / 0.000	12 / 0.590
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6227C2/C3 Inlet Nacelle Bleed Plate Crack

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 1.267	11 / 0.486	72 / 3.380	48 / 2.196	0 / 0.000	48 / 2.196	48 / 2.236	71 / 2.276	48 / 1.668	- / -	0 / 0.000	300 / 13.509

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	2	3	3	3	18	18	18	18	12	12	12	12	12	12	12	12	17	18	18	18	18	18	6	6	-	-	-	-	-	300
Out	2	2	3	3	3	18	18	18	18	12	12	12	12	12	12	12	12	17	18	18	18	18	18	6	6	-	-	-	-	-	300

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6234C1 Horizontal Stabilator/Fuselage Rubbing

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	17 / 0.166	18 / 0.298	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	35 / 0.464
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.298	- / -	- / -	- / -	0 / 0.000	30 / 0.298
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.315	- / -	0 / 0.000	30 / 0.315
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.321	0 / 0.000	30 / 0.321
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.326	30 / 0.326
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.332	30 / 0.332
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	103 / 1.462	103 / 1.462
Total	- / -	17 / 0.166	18 / 0.298	- / -	- / -	- / -	30 / 0.298	- / -	30 / 0.315	30 / 0.321	163 / 2.120	288 / 3.518

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0525 / F-18 Series											Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)																															
Installation Information																															
Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6234C1 Horizontal Stabilator/Fuselage Rubbing																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	4	4	4	5	4	4	5	5	-	-	-	-	7	7	8	8	-	-	-	-	7	7	8	8	7	7	8	8	163	288
Out	-	4	4	4	5	4	4	5	5	-	-	-	-	7	7	8	8	-	-	-	-	7	7	8	8	7	7	8	8	163	288

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6394R1: F/A-18E/F Horizontal Stab Gang Channel												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	72 / 0.173	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	72 / 0.173
FY 2018	- / -	- / -	72 / 0.176	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	72 / 0.176
FY 2019	- / -	- / -	- / -	60 / 0.149	0 / 0.000	60 / 0.149	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.149
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.152	- / -	- / -	- / -	0 / 0.000	60 / 0.152
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.036	- / -	- / -	0 / 0.000	14 / 0.036
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.037	- / -	0 / 0.000	14 / 0.037
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	72 / 0.173	72 / 0.176	60 / 0.149	0 / 0.000	60 / 0.149	60 / 0.152	14 / 0.036	14 / 0.037	- / -	0 / 0.000	292 / 0.723

Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	36	36	-	-	36	36	-	-	30	30	-	-	30	30	-	-	7	7	-	-	7	7	-	-	-	-	-	292
Out	-	-	-	36	36	-	-	36	36	-	-	30	30	-	-	30	30	-	-	7	7	-	-	7	7	-	-	-	-	-	292

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6394R1 Horizontal Stabilator Gang Channel Cor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.008	- / -	90 / 1.119	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	92 / 1.127
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.560	- / -	- / -	- / -	0 / 0.000	45 / 0.560
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.570	45 / 0.570	- / -	0 / 0.000	45 / 1.140
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.580	0 / 0.000	45 / 0.580
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.590	45 / 0.590
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.561	45 / 0.561	45 / 1.122
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	156 / 1.570	156 / 1.570
Total	2 / 0.008	- / -	90 / 1.119	- / -	- / -	- / -	45 / 0.560	0 / 0.570	45 / 0.570	45 / 1.141	246 / 2.721	473 / 6.689

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	-	-	-	23	23	22	22	-	-	-	-	11	11	11	12	-	-	-	-	11	11	11	12	11	11	11	12	246	473
Out	2	-	-	-	-	23	23	22	22	-	-	-	-	11	11	11	12	-	-	-	-	11	11	11	12	11	11	11	12	246	473

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6416 Environment Control Sys Anti-Ice Duct Brack

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	26 / 0.165	72 / 0.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	98 / 0.629
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6416 Environment Control Sys Anti-Ice Duct Brack

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	26 / 0.165	72 / 0.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	98 / 0.629

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	6	6	7	7	18	18	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98
Out	-	6	6	7	7	18	18	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6430 Enhancement of the Aft Pivot Support Fitt

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	72 / 5.082	100 / 6.350	0 / 0.000	100 / 6.350	100 / 6.464	100 / 6.581	60 / 4.019	- / -	0 / 0.000	432 / 28.496
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 2.679	32 / 2.182	0 / 0.000	72 / 4.861
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 4.637	4 / 0.278	72 / 4.915
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 5.137	74 / 5.137
Total	- / -	- / -	72 / 5.082	100 / 6.350	0 / 0.000	100 / 6.350	100 / 6.464	100 / 6.581	100 / 6.698	100 / 6.819	78 / 5.415	650 / 43.409

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0525 / F-18 Series												Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)																															
Installation Information																															
Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6430 Enhancement of the Aft Pivot Support Fitt																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	18	18	18	18	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	78	650
Out	-	-	-	-	-	18	18	18	18	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	78	650
Method of Implementation: Navy Drive-in Modification:: Installation Name: E/F/G Concurrent Installs																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		360 / 2.282		- / -		- / -		- / -		- / -		0 / 0.000		360 / 2.282					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		360 / 2.323		- / -		- / -		- / -		0 / 0.000		360 / 2.323					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		360 / 2.365		- / -		- / -		0 / 0.000		360 / 2.365					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		288 / 2.213		0 / 0.000		288 / 2.213							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		218 / 1.266		218 / 1.266							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		249 / 0.459		249 / 0.459							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		- / -		- / -		- / -		- / -		- / -		360 / 2.282		360 / 2.323		360 / 2.365		288 / 2.213		467 / 1.725		1,835 / 10.908							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	90	90	90	90	90	90	90	90	90	90	90	90	72	72	72	72	467	1,835
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	90	90	90	90	90	90	90	90	90	90	90	90	72	72	72	72	467	1,835

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: E/F Concurrent Installs

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.637	- / -	- / -	- / -	0 / 0.000	216 / 1.637
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 1.384	- / -	- / -	0 / 0.000	144 / 1.384
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 1.410	- / -	0 / 0.000	144 / 1.410
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 1.435	0 / 0.000	144 / 1.435
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 1.461	144 / 1.461
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	280 / 2.859	280 / 2.859
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.637	144 / 1.384	144 / 1.410	144 / 1.435	424 / 4.320	1,072 / 10.186

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	54	54	54	54	36	36	36	36	36	36	36	36	36	36	36	36	424	1,072
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	54	54	54	54	36	36	36	36	36	36	36	36	36	36	36	36	424	1,072

Method of Implementation: Navy Drive-in Modification:: Installation Name: ECP-6475 Aux Power Unit Hydraulic Accumulator Suppor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	72 / 1.558	0 / 0.000	72 / 1.558	- / -	- / -	- / -	- / -	0 / 0.000	72 / 1.558
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: ECP-6475 Aux Power Unit Hydraulic Accumulator Suppor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	72 / 1.558	0 / 0.000	72 / 1.558	- / -	- / -	- / -	- / -	0 / 0.000	72 / 1.558

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	18	18	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
Out	-	-	-	-	-	-	-	-	-	18	18	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6480: Navy Flight Demo Squadron (Blue Angels)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	11 / 10.389	- / -	- / -	- / -	0 / 0.000	11 / 10.389
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 6.851	- / -	0 / 0.000	7 / 6.851
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	11 / 10.389	- / -	7 / 6.851	- / -	0 / 0.000	18 / 17.240

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0525 / F-18 Series											Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)																															
Installation Information																															
Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6480: Navy Flight Demo Squadron (Blue Angels)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	5	-	-	-	-	-	-	4	3	-	-	-	-	-	18
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	5	-	-	-	-	-	-	4	3	-	-	-	-	-	18
Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6487: Retrofit to Address Y491 Bulkhead Cracks																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	18 / 3.218	- / -	- / -	- / -	0 / 0.000	18 / 3.218																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		- / -	- / -	- / -	- / -	- / -	- / -	18 / 3.218	- / -	- / -	- / -	0 / 0.000	18 / 3.218																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	18
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	18

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Contractor Field Team:: Installation Name: ECP-6495 STS Electrohydraulic Test Stand Obsolescence Upg

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.783	- / -	- / -	- / -	0 / 0.000	5 / 0.783
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.783	- / -	- / -	- / -	0 / 0.000	5 / 0.783

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	5

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6499 Update of the Lateral Stick Position Sensor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	100 / 10.000	- / -	- / -	- / -	0 / 0.000	100 / 10.000
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 10.180	- / -	- / -	0 / 0.000	100 / 10.180
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 10.363	- / -	0 / 0.000	100 / 10.363
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 10.550	0 / 0.000	100 / 10.550
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 10.740	100 / 10.740

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)																															
Installation Information																															
Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6499 Update of the Lateral Stick Position Sensor																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 10.933	100 / 10.933																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	100 / 10.000	100 / 10.180	100 / 10.363	100 / 10.550	200 / 21.673	600 / 62.766																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	200	600
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	200	600
Method of Implementation (Organic): ECP 615 GGU-12/A Catalyst Sieve Bed Sets - Not Installed																				Installation Quantity: 12											
Method of Implementation (Organic): ECP-6213R2 / TEF Redesign																				Installation Quantity: 543											
Method of Implementation (Organic): ECP-6392C1 F/A-18E/F & EA-18G Alternate Angle-of-Attack Transmitter - Not Installed																				Installation Quantity: 472											
Method of Implementation (Organic): ECP 6417C1 - Cabin Diverter Valve Redesign - Not Installed																				Installation Quantity: 2											
Method of Implementation (Organic): ECP-XX50: F/A-18E/F Fuel Related Upgrade Issues																				Installation Quantity: 500											
Method of Implementation (Organic): ECP-XX60: NACES Retrofit Upgrades																				Installation Quantity: 525											
Method of Implementation (Organic): XX61 - BLK III CFT Upgrade - Not Installed																				Installation Quantity: 31											
Method of Implementation (Organic): ECP-6476 In-Flight Refueling Pressure Regulator Removal - Not Installed																				Installation Quantity: 582											

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)		
Installation Information		
Method of Implementation (Organic): ECP-6478 ECS Items 51 & 26 Improvements - Not Installed		Installation Quantity: 4
Method of Implementation (Organic): ECP 6488 - Secondary Bleed air regulator & Shut Off Valve Improvement		Installation Quantity: 2
Method of Implementation (Organic): ECP-9557MB: NACES Upgrade (Sequencer) - Not Installed		Installation Quantity: 5250
Footnotes: (21) Kits were procured under OSIP 19-01, starting in FY10, installs are funded under OSIP 14-03 (22) Kits were procured under OSIP 19-01, starting in FY10, installs are funded under OSIP 14-03 (23) Kits were procured under OSIP 19-01, starting in FY10, installs are funded under OSIP 14-03 (24) Kits were procured under OSIP 12-03, Starting in FY10, installs are funded under OSIP 14-03 (25) Kits were procured under OSIP 19-01, Starting in FY10, installs are funded under OSIP 14-03 (26) Kits were procured under OSIP 12-03, Starting in FY10, installs are funded under OSIP 14-03 (27) Kits were procured under OSIP 13-03, Starting in FY10, installs are funded under OSIP 14-03 (28) Kits were procured under OSIP 13-03, Starting in FY10, installs are funded under OSIP 14-03 (29) Kits were procured under OSIP 19-01, Starting in FY10, installs are funded under OSIP 14-03 (30) Kits were procured under OSIP 13-03, Starting in FY10, installs are funded under OSIP 14-03 (31) ECP-6231 kits were purchased under OSIP 19-01 (32) installs are required and listed as OOW (33) ECP-6394R1 AYC-1682 is a drain hole, and there is no cost for kits. (34) Installation of four kits procured in FY17 are funded in OSIP 13-19 in FY19. (35) This cost element includes the following ECPs related to Fatigue Test (FT) 50 for Structures: ECP-6183R1 FT50 Failure of Upper Wing Skin Splice Plate; ECP-6239R1 FT50 18K Fuselage Outboard Formal @Y679 Failure; ECP-6247R1 FT50 18K Y520 Former Cracks at Lower Drop Link; ECP-6266 FT50 18K Y555.5 and Y568 Former Cracks at Keel Longerons Life Limit; ECP-6303R1 FT50 18K Y577 Former Redesign; ECP-6304R1 FT50 18K Web and Wing Drag Longerons Redesign; ECP-6306R1 FT50 18K Y618 Inboard Former (74A342314) Redesign; ECP-6326 FT50 Fuel Barrier Web at Y510; ECP-6408C1 F/A-18 E/F FT50 Y233 Bulkhead Z90 Floor Attachment Retrofit; ECP-6411 F/A-18 E/F FT50 Inner-Wing Upper Splice Fitting @ Aft Fastener Skin on (36) This cost element includes the following ECPs related to Fatigue Tests (FTs) 76/77/78 for Wings: ECP-6243 FT76 Jackpoint Support Fitting Life Limit; ECP-6275C1 FT77 Wing Inboard Closure Rib Life Limit; ECP-6282 FT50/FT77 Post CRI Inner Wing Retrofit; ECP-6285C1: FT77 Lower Wing Skin Splice Fitting Life Limit; ECP-6292 FT76 Avionics Bay 3 & 4 Door Hinges; ECP-6295 FT77 Wing Spar 6 Life Limit; ECP-6309 FT77 Retrofit ECP for the Outer Wing; ECP-6341 FT77/78 Aileron Retrofit (37) This cost element includes the following ECPs related to the Main Landing Gear (MLG): ECP-6104 MLG Door Bushing Migration ECP-6194 MLG Trunnion Bearing Loose Retention Nut ECP-6196C1 MLG R/H Upper Planing Link Attach Fitting Failure		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(38) Installation kits N/R increases in FY19 and FY20 due to Block III retrofit efforts. (39) Software funding in FY17 is for ECP-6480: Navy Flight Demo Squadron (Blue Angels) Super Hornet. (40) FY17 funding includes funding for ECP-6480: Navy Flight Demo Squadron (Blue Angels) Super Hornet. (41) Installation costs vary by FY due to different ECPs being installed. (42) Kits were provided as I/W. More installs due to I/W OOW installs Trades with Boeing and/or ATSUGI		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	351.480	84.277	68.897	71.068	0.000	71.068	144.272	109.902	112.615	147.148	1,936.920	3,026.579
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	351.480	84.277	68.897	71.068	0.000	71.068	144.272	109.902	112.615	147.148	1,936.920	3,026.579
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	351.480	84.277	68.897	71.068	0.000	71.068	144.272	109.902	112.615	147.148	1,936.920	3,026.579
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational, Safety and Improvement Program (OSIP) is required to retrofit upgrades, manage obsolescence issues, and improvements to various avionics systems that have been or are being incorporated into fleet aircraft, to provide updates to Automated Maintenance Environment (AME) and the integrated electronic technical manuals, and to provide mission planning updates. Specifically for mission planning, the F/A-18 Unique Planning Component (UPC) for the Joint Mission Planning System (JMPS) must implement frequent software changes in conjunction with aircraft modifications. The JMPS and Airborne Electronic Attack (AEA) UPC changes required in conjunction with System Configuration Set (SCS) changes must include software regression tests to ensure proper operation and integration with other aircraft systems in JMPS components, and the core mission planning equipment and software procured elsewhere within the Navy budget. Upgrades include replacement of the Hi-8mm video tape recorder with a retrofit of Solid State Recorder (SSR) (ECP-1146-12 and ECP-6212R1) into United States Navy and Marine Corps Lot 4-25 F/A-18A+/B/C/D/E/F aircraft. Installation of the Cockpit Video Recording System (CVRS) is a mandatory pre-requisite for the SSR upgrade for F/A-18C/D. This OSIP includes the retrofit completion of the CVRS in unmodified F/A-18C/D aircraft. Upgrades also include replacement of the black and white Heads Up Display (HUD) camera with a retrofit of a color HUD camera (ECP-6491) to address technology obsolescence and configuration differences introduced by the Joint Helmet Mounted Cueing System (JHMCS) in Lot 4-11 F/A-18A-D aircraft (Lot 7-9 F/A-18A++ will require wiring modification). Installation of the SSR for Lots 23-24 F/A-18E/F (ECP-6212R1) will be performed concurrent with the upgrade retrofit installation of the Type 2 Advanced Mission Computer (AMC) and the JHMCS in OSIP 24-00. This OSIP includes replacement of the AN/AVQ-36 Head-Up Display (HUD) and the entire Block 2 F/A-18E/F and EA-18G display suite (5x5 and 8x10 Advanced Multipurpose Displays (AMPD), Multipurpose Color Display Replacement (MPCDR), Up Front Control Display Replacement (UFCDR), and Engine Fuel Display Replacement (EFDR)) with the Advanced Cockpit System (ACS) into United States Navy Lot 26 and up F/A-18E/F and EA-18G aircraft to address technology obsolescence and increase display capability required for the Advanced Capability Mission Computer (ACMC). The ACS consists of a Low-Profile HUD (LPHUD), 10x19 Large Area Display (LAD) and Low-Profile Engine Fuel Display (LPEFD). This OSIP also includes replacement for the SSR/USSR with a High Speed Video Network (HSVN) Digital Video Recorder (HDVR) (ECP-TBD) into United States Navy Lot 23 and up F/A-18E/F and EA-18G aircraft to address technology obsolescence and include Cyber Security Information Assurance through Type-1 data encryption capability. HDVR is required for installation of the ACS. Upgrades also include the Digital Video Mapping Computer (DVMC) which will provide additional graphics processing required by the ACS. HDVR and DVMC retrofit is being planned for Organizational level installation with no Depot labor requirements. This OSIP also includes a requirement to retrofit the Deployable Flight Incident Recorder Set (DFIRS) (ECP-6273) to address component obsolescence including the search and rescue satellite aided tracking beacon. Upgrades include an F/A-18 retrofit installation of the AMC (ECP-6267R1) as a replacement for the AYK-14 computer. Upgrade includes Store Management Processor (SMP) AVC 5506 incorporation required to support ECP-6267R1. Upgrade includes a retrofit installation of the Advanced Capability Mission Computer (ACMC) (ECP-6459, ECP-6459C1) into EA-18G aircraft. Upgrades include a retrofit of the Fiber Channel Network Switch-24 (FCNS-24) (ECP-6456, ECP-6456C1) into EA-18G aircraft. Upgrades also include retrofit installation of various display hardware improvements to enable increased aircrew												

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
situational awareness such as replacement of the Multipurpose Color Display (MPCD) with MPCD Replacement (MPCDR) (ECP-6220, ECP-6220C2, and ECP-6220C3) to meet hardware requirement for OFP display improvements. Upgrades include retrofit of USMC F/A-18C/D aircraft with the ACMC, display upgrades including the left/right 5x5 advanced multi-purpose display, up-front control display-replacement, and MPCDR, stores management system upgrades, DTU and associated software and engineering requirements. Efforts include Upgrades of Type 2 and Type 3 Advanced Mission Computers (AMC) to meet increased OFP processing throughput requirements, including adding a 4th Processor Card to Type III AMC. The efforts will include integration of the hardware and the software as well as the Integrated Logistics Support (ILS) products. This USMC upgrade effort is funded in OSIP 23-04 through FY16 and is realigned beginning in FY17 to OSIP 21-00, where it is more appropriate. It will also support updates to Operational Flight Program (OFP) for on-going aircraft modernization and modification efforts which necessitate periodic software releases. The procurement of SCS is not a standalone cost but integration for the overall improvement to the end item to allow the integration of new capabilities and or performances to be complete. The SCS builds anticipated are used to support retrofit hardware configuration changes and the accompanying software change and associated testing driven by the Aircraft Procurement, Navy 5 (APN-5) funded OSIPs. SCS integration will comprise of OFP, recurring and non-recurring engineering, Naval Integrated Fire Control (NIFCA) required modifications, Link 16 Inject modifications, support equipment and simulation equipment test program sets updates, operational analysis and functional retrofit implementation of aircrew and maintenance training systems, OFP memory loader verifier set personal computer memory card international association cards, and update of SCS to allow single point loading of software from the advanced memory unit or digital memory device and associated software licenses and data rights and publication updates. The miniaturized airborne Global Positioning System (GPS) receiver retrofit implements an advanced GPS that increases platform navigation accuracy and smart weapon targeting solutions. This OSIP will implement a Precision Approach and Landing Capability (PALC) that will provide an onboard precision approach capability in the event of adverse weather conditions. The PALC requirement can be met with either the Civilian Instrument Landing System (C-ILS) or the Wide Area Augmentation System (WAAS). Efforts include verifying and validating altimetry data related to the Reduced Vertical Separation Minimum (RVSM) mandate which reduces the vertical separation between aircraft flying between FL290 (29,000 ft.) and FL410 (41,000 ft.) inclusive, from 2000-ft minimum to 1000-ft minimum. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: All Validation and Verification installs for SSR (ECP-1146-12) have been completed. HDVR is planned to begin USN aircraft integration beginning FY 2019 concurrent with Block III Super Hornet production.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Capability and Reliability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)													
A Kits													
Recurring													
1.1.1) ECP-6212R1 F/A-18E SSR - NonOrganic ⁽⁴³⁾	40 / 0.699	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.699	
1.1.2) ECP-6212R1 F/A-18F SSR - NonOrganic ⁽⁴⁴⁾	56 / 1.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 1.101	
1.1.3) ECP 1146-12 (SSR Hi8) AFC-633 Lot 18-22 E/F - NonOrganic	32 / 0.308	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.308	
1.1.4) DFIRS - Organic	- / -	- / -	- / -	- / -	- / -	- / -	50 / 2.856	90 / 5.295	45 / 2.745	45 / 2.790	179 / 11.298	409 / 24.984	
1.1.5) Civilian ILS A-kits (ECP 6380) - NonOrganic	152 / 12.322	7 / 0.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	159 / 12.882	
1.1.6) Type 2 Advanced Mission Computer (AMC) kits (ECP 6267R1) - NonOrganic ⁽⁴⁵⁾	61 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	61 / 0.000	
1.1.7) HDVR - Organic	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.442	144 / 8.117	121 / 6.957	121 / 7.096	240 / 14.328	634 / 36.940	
1.1.8) F/A-18E ACS - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.205	- / -	12 / 7.521	27 / 17.260	213 / 138.886	254 / 164.872	
1.1.9) F/A-18F and EA-18G ACS - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.494	- / -	9 / 6.995	27 / 21.404	317 / 256.321	355 / 286.214	
1.1.10) A-Kits Archive - Organic	727 / 10.652	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	727 / 10.652	
1.1.11) Prior Year Install Costs - Organic	391 / 0.301	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	391 / 0.301	
Subtotal: Recurring	- / 25.383	- / 0.560	- / -	- / -	- / -	- / -	- / 5.997	- / 13.412	- / 24.218	- / 48.550	- / 420.833	- / 538.953	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 11.246	- / 12.995	- / 0.505	- / 3.516	- / -	- / 3.516	- / 5.402	- / 0.879	- / 0.072	- / -	- / -	- / 34.615	
Subtotal: Non-Recurring	- / 11.246	- / 12.995	- / 0.505	- / 3.516	- / -	- / 3.516	- / 5.402	- / 0.879	- / 0.072	- / -	- / 0.000	- / 34.615	
B Kits													
Recurring													
2.1.1) Stores Management Upgrade (SMUG) (ECP 6042) - NonOrganic ⁽⁴⁶⁾	59 / 1.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 1.878	
2.1.2) F/A-18C/D Cockpit Video Recording System (CVRS) - NonOrganic	17 / 0.219	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.219	
2.1.3) Display Improvements (DVMC-104) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 3.200	113 / 11.526	439 / 45.674	584 / 60.400	
2.1.4) ECP 6459 Advanced Capability Mission Computer (ACMC) - Organic	15 / 14.930	19 / 19.342	20 / 20.720	21 / 22.148	- / -	21 / 22.148	33 / 35.430	5 / 5.465	- / -	- / -	22 / 24.478	135 / 142.513	

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Capability and Reliability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.1.5) ECP 6456 Fibre Channel Network Switch (FCNS-24) - Organic	- / -	23 / 4.215	31 / 5.783	21 / 3.988	- / -	21 / 3.988	28 / 5.413	31 / 6.101	9 / 1.803	10 / 2.040	- / -	153 / 29.343	
2.1.6) Type 3 Mission Computer 4th Processor - Organic	- / -	- / -	- / -	- / -	- / -	- / -	342 / 11.543	100 / 3.443	359 / 12.606	261 / 9.348	- / -	1,062 / 36.940	
2.1.7) PALC B-Kits - Organic	- / -	- / -	- / -	32 / 1.628	- / -	32 / 1.628	60 / 3.060	60 / 3.090	60 / 3.120	60 / 3.182	334 / 18.070	606 / 32.150	
2.1.8) Civilian ILS B-kits - NonOrganic	5 / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.040	
2.1.9) SCS - Organic	- / 27.165	- / 1.877	- / 2.698	- / 3.513	- / -	- / 3.513	- / 6.080	- / 5.500	- / 6.131	- / 7.131	- / 1,011.414	- / 1,071.509	
2.1.10) MP/UPC Software - Organic	- / 20.048	- / 3.539	- / 2.016	- / 2.876	- / -	- / 2.876	- / 8.340	- / 5.202	- / 5.000	- / 5.020	- / 129.566	- / 181.607	
2.1.11) 27C (SCS) - Organic	- / 13.012	- / 9.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.962	
2.1.12) 29C (SCS) - Organic	- / 0.440	- / 0.699	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.139	
2.1.13) H12 (SCS) - Organic	- / 11.690	- / 3.666	- / 0.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.420	
2.1.14) H14 (SCS) - Organic	- / 3.576	- / 2.479	- / 4.065	- / 2.935	- / -	- / 2.935	- / -	- / -	- / -	- / -	- / -	- / 13.055	
2.1.15) H16 (SCS) - Organic	- / 12.534	- / 1.415	- / 2.939	- / 4.617	- / -	- / 4.617	- / 17.166	- / 5.841	- / 5.766	- / 5.188	- / -	- / 55.466	
2.1.16) H18 (SCS) - Organic	- / -	- / -	- / 1.350	- / 1.900	- / -	- / 1.900	- / 4.000	- / 10.000	- / 11.000	- / 11.000	- / 2.000	- / 41.250	
2.1.17) H20 (SCS) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	- / 15.953	- / 13.152	- / 13.603	- / 4.397	- / 49.105	
2.1.18) H22 (SCS) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	- / 2.000	- / 60.000	- / 64.000	
2.1.19) ALQ-214 JMPS UPC - Organic	- / 16.502	- / 2.204	- / 2.601	- / 2.382	- / -	- / 2.382	- / 5.000	- / 5.000	- / -	- / -	- / -	- / 33.689	
2.1.20) B-Kits Archive - Organic	908 / 92.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	908 / 92.010	
Subtotal: Recurring	- / 214.044	- / 49.386	- / 42.236	- / 45.987	- / -	- / 45.987	- / 98.032	- / 65.595	- / 63.778	- / 70.038	- / 1,295.599	- / 1,944.695	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 24.561	- / 1.172	- / 4.531	- / 2.133	- / -	- / 2.133	- / 16.283	- / 11.549	- / 6.533	- / 6.174	- / 2.600	- / 75.536	
Subtotal: Non-Recurring	- / 24.561	- / 1.172	- / 4.531	- / 2.133	- / -	- / 2.133	- / 16.283	- / 11.549	- / 6.533	- / 6.174	- / 2.600	- / 75.536	
Subtotal: Core Avionics Improvements / Upgrades (OSIP 023-04)	2,463 / 275.234	49 / 64.113	51 / 47.272	74 / 51.636	- / -	74 / 51.636	525 / 125.714	430 / 91.435	647 / 94.601	664 / 124.762	1,744 / 1,719.032	6,647 / 2,593.799	
Subtotal: Procurement, All Modification Items	- / 275.234	- / 64.113	- / 47.272	- / 51.636	- / -	- / 51.636	- / 125.714	- / 91.435	- / 94.601	- / 124.762	- / 1,719.032	- / 2,593.799	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 1.440	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.440	
3.2) Data	- / 8.243	- / 0.244	- / 0.104	- / 0.157	- / -	- / 0.157	- / -	- / -	- / -	- / -	- / -	- / 8.748	
3.3) Training Equipment	- / 1.904	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 2.504	
3.4) Support Equipment	- / 6.361	- / 0.561	- / 2.272	- / 0.785	- / -	- / 0.785	- / 0.760	- / 0.800	- / 0.800	- / 0.800	- / 8.000	- / 21.139	
3.5) ILS	- / 14.432	- / 1.573	- / 1.601	- / 1.630	- / -	- / 1.630	- / 1.659	- / 1.689	- / 1.719	- / 1.752	- / 9.595	- / 35.650	
3.6) Other Support	- / 38.056	- / 14.103	- / 14.357	- / 14.616	- / -	- / 14.616	- / 14.952	- / 15.221	- / 15.495	- / 15.772	- / 81.469	- / 224.041	

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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Capability and Reliability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Support</i>	- / 70.436	- / 16.481	- / 18.334	- / 17.188	- / -	- / 17.188	- / 17.371	- / 17.710	- / 18.014	- / 18.324	- / 99.664	- / 293.522	
Installation													
<i>Modification Item 1 of 1:</i> Core Avionics Improvements / Upgrades (OSIP 023-04)	- / 5.810	- / 3.683	- / 3.291	- / 2.244	- / 0.000	- / 2.244	- / 1.187	- / 0.757	- / 0.000	- / 4.062	- / 118.224	- / 139.258	
<i>Subtotal: Installation</i>	- / 5.810	- / 3.683	- / 3.291	- / 2.244	- / -	- / 2.244	- / 1.187	- / 0.757	- / -	- / 4.062	- / 118.224	- / 139.258	
Total													
Total Cost (Procurement + Support + Installation)	351.480	84.277	68.897	71.068	0.000	71.068	144.272	109.902	112.615	147.148	1,936.920	3,026.579	

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)							
Manufacturer Information							
Manufacturer Name: Boeing - Civilian ILS B-kits				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - F/A-18C/D Cockpit Video Recording System (CVRS)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: General Electric (SMUG ECP 6042)				Manufacturer Location: Grand Rapids, MI			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Various - SSR Mod Installs				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 31			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: N/A - Type 2 Advanced Mission Computer (AMC) kits				Manufacturer Location: N/A			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - Civilian ILS				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2017						

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates	Apr 2018						
Manufacturer Name: Boeing - ECP 1146-12				Manufacturer Location: St Louis			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 31			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - Civilian ILS B-kits				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2017						
Delivery Dates	Apr 2018						
Manufacturer Name: Boeing - Civilian ILS B-kits				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - F/A-18E ACS				Manufacturer Location: St Louis			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Jan 2020		Jan 2022	Jan 2023
Delivery Dates				Sep 2020		Sep 2022	Sep 2023
Manufacturer Name: Boeing - F/A-18F and EA-18G ACS				Manufacturer Location: St Louis			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Jan 2020		Jan 2022	Jan 2023
Delivery Dates				Sep 2020		Sep 2022	Sep 2023
Manufacturer Name: Various - USMC Avionics Upgrade Kits (AMCs and Displays)				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 9				Production Leadtime (<i>in Months</i>): 12			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)																															
Manufacturer Information																															
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates										Sep 2019				Sep 2020				Sep 2021													
Delivery Dates										Sep 2020				Sep 2021				Sep 2022													
Installation Information																															
Method of Implementation: Navy Field mod Team:: Installation Name: SSR Mod Installs																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		51 / 0.559		24 / 0.269		15 / 0.168		6 / 0.067		0 / 0.000		6 / 0.067		- / -		- / -		- / -		- / -		0 / 0.000		96 / 1.063							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		51 / 0.559		24 / 0.269		15 / 0.168		6 / 0.067		0 / 0.000		6 / 0.067		- / -		- / -		- / -		- / -		0 / 0.000		96 / 1.063							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	51	12	3	4	5	5	3	3	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96
Out	51	12	3	4	5	5	3	3	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96
Method of Implementation: Navy Drive In Modification:: Installation Name: ECP 1146-12 (SSR Hi8) AFC-633 Lot 18-22 E/F																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		3 / 0.027		- / -		10 / 0.009		10 / 0.011		0 / 0.000		10 / 0.011		5 / 0.005		4 / 0.004		- / -		- / -		0 / 0.000		32 / 0.056							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: ECP 1146-12 (SSR Hi8) AFC-633 Lot 18-22 E/F

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 0.027	- / -	10 / 0.009	10 / 0.011	0 / 0.000	10 / 0.011	5 / 0.005	4 / 0.004	- / -	- / -	0 / 0.000	32 / 0.056

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	-	-	-	-	3	3	2	2	3	3	2	2	2	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	32
Out	3	-	-	-	-	3	3	2	2	3	3	2	2	2	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	32

Method of Implementation: Navy Drive-In Modification:: Installation Name: Civilian ILS A-kits (ECP 6380)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	105 / 2.648	27 / 0.812	20 / 0.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	152 / 4.080
FY 2017	- / -	- / -	7 / 0.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 0.289
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	105 / 2.648	27 / 0.812	27 / 0.909	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	159 / 4.369

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0525 / F-18 Series												Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)																															
Installation Information																															
Method of Implementation: Navy Drive-In Modification:: Installation Name: Civilian ILS A-kits (ECP 6380)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	105	7	7	7	6	5	5	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	159
Out	105	7	7	7	6	5	5	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	159
Method of Implementation: Navy Field Modification Team:: Installation Name: Type 2 Advanced Mission Computer (AMC) kits (ECP 6																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		13 / 2.343		15 / 2.400		13 / 2.117		13 / 2.156		0 / 0.000		13 / 2.156		7 / 1.182		- / -		- / -		- / -		0 / 0.000		61 / 10.198							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		13 / 2.343		15 / 2.400		13 / 2.117		13 / 2.156		0 / 0.000		13 / 2.156		7 / 1.182		- / -		- / -		- / -		0 / 0.000		61 / 10.198							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	3	4	4	4	4	3	3	3	4	3	3	3	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61
Out	13	3	4	4	4	4	3	3	3	4	3	3	3	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: F/A-18E ACS

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.345	- / -	- / -	0 / 0.000	2 / 0.345
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.152	0 / 0.000	12 / 2.152
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 4.941	27 / 4.941
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	213 / 38.979	213 / 38.979
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.345	- / -	12 / 2.152	240 / 43.920	254 / 46.417

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	3	3	3	3	240	254	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	3	3	3	3	240	254	

Method of Implementation: Navy Drive In Modification:: Installation Name: F/A-18F and EA-18G ACS

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.408	- / -	- / -	0 / 0.000	2 / 0.408
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.910	0 / 0.000	9 / 1.910
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 5.832	27 / 5.832

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: F/A-18F and EA-18G ACS

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	317 / 68.472	317 / 68.472
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.408	- / -	9 / 1.910	344 / 74.304	355 / 76.622

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	3	2	2	2	344	355
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	3	2	2	2	344	355

Method of Implementation: Drive-In Modification:: Installation Name: Stores Management Upgrade (SMUG) (ECP 6042)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	13 / 0.008	17 / 0.012	18 / 0.013	11 / 0.010	0 / 0.000	11 / 0.010	- / -	- / -	- / -	- / -	0 / 0.000	59 / 0.043
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	13 / 0.008	17 / 0.012	18 / 0.013	11 / 0.010	0 / 0.000	11 / 0.010	- / -	- / -	- / -	- / -	0 / 0.000	59 / 0.043

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0525 / F-18 Series												Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)																															
Installation Information																															
Method of Implementation: Drive-In Modification:: Installation Name: Stores Management Upgrade (SMUG) (ECP 6042)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	4	4	4	5	4	4	5	5	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	13	4	4	4	5	4	4	5	5	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Method of Implementation: Navy Drive-In Modification:: Installation Name: F/A-18C/D Cockpit Video Recording System (CVRS)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		13 / 0.225	- / -	4 / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	17 / 0.300																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		13 / 0.225	- / -	4 / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	17 / 0.300																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	13	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)																															
Installation Information																															
Method of Implementation: Navy Field Modification Team:: Installation Name: Civilian ILS B-kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	5 / 0.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.190																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	5 / 0.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.190																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Method of Implementation (Organic): DFIRS																														Installation Quantity: 409	
Method of Implementation (Organic): HDVR																														Installation Quantity: 634	
Method of Implementation (Organic): A-Kits Archive - Not Installed																														Installation Quantity: 727	
Method of Implementation (Organic): Prior Year Install Costs - Not Installed																														Installation Quantity: 391	
Method of Implementation (Organic): Display Improvements (DVMC-104)																														Installation Quantity: 584	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)		
Installation Information		
Method of Implementation (Organic): ECP 6459 Advanced Capability Mission Computer (ACMC)		Installation Quantity: 135
Method of Implementation (Organic): ECP 6456 Fibre Channel Network Switch (FCNS-24)		Installation Quantity: 153
Method of Implementation (Organic): Type 3 Mission Computer 4th Processor - Not Installed		Installation Quantity: 1062
Method of Implementation (Organic): PALC B-Kits - Not Installed		Installation Quantity: 606
Method of Implementation (Organic): B-Kits Archive - Not Installed		Installation Quantity: 908
Footnotes: ⁽⁴³⁾ ECP-6212R1 installs were realigned to match concurrent install schedule with Type 2 AMC (ECP-6267R1). ECP-6212R1 (AFC-557) applies to E/F Lots 23-25, and is dependent upon Type II Mission Computer prerequisite install from ECP-6267R1 (AFC-507 Lot 25 and AFC-506 Lot 23-24). AFC-507 is complete for E/F. AFC-506 has experienced significant delays due to the complexity of the aircraft modification. AFC-557 val/ver activity closed in FY14 enabling issuance of the technical directive to begin installs in Lot 25E/F. AFC-506 was released in FY15 for Lot 23-24 E/F and installs have been scheduled to coincide with AFC-557. ⁽⁴⁴⁾ ECP-6212R1 installs were realigned to match concurrent install schedule with Type 2 AMC (ECP-6267R1). ECP-6212R1 (AFC-557) applies to E/F Lots 23-25, and is dependent upon Type II Mission Computer prerequisite install from ECP-6267R1 (AFC-507 Lot 25 and AFC-506 Lot 23-24). AFC-507 is complete for E/F. AFC-506 has experienced significant delays due to the complexity of the aircraft modification. AFC-557 val/ver activity closed in FY14 enabling issuance of the technical directive to begin installs in Lot 25E/F. AFC-506 was released in FY15 for Lot 23-24 E/F and installs have been scheduled to coincide with AFC-557. ⁽⁴⁵⁾ Type 2 AMC A-kits were procured under BLI 05770 and are being installed under BLI 05250. Type 2 AMC B-kits have been removed from aircraft and replaced with Type 3 AMC kits, so there is no cost for B-kits. The B-kits are O-level installs so there is no associated install cost or schedule for B-kits. ⁽⁴⁶⁾ Kits were procured as a Life of Type Buy in FY14.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	164.729	1.219	1.113	0.324	0.000	0.324	0.000	0.000	0.000	0.000	0.000	167.385
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	164.729	1.219	1.113	0.324	0.000	0.324	0.000	0.000	0.000	0.000	0.000	167.385
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	164.729	1.219	1.113	0.324	0.000	0.324	0.000	0.000	0.000	0.000	0.000	167.385
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The LITENING Advanced Targeting (AT) Pod (AN-AAQ-28) possesses qualities essential to the Marine Corps' F/A-18A+/C/D's in the execution of operations within the combat spectrum providing the Marine Air Ground Task Force with crucial capabilities in the expeditionary land based environment. LITENING AT Pod capabilities include: laser/Infrared (IR) marker functionality, image data link functionality, cooperative laser guided illumination, laser spot tracker, and limited weapons damage assessment capability. Northrop Grumman's LITENING pod has demonstrated improved reliability and maintainability during combat operation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

LITENING is a commercial off the shelf non-developmental item. This Operational, Safety and Improvement Program (OSIP) funds hardware for modifications to include personal computer memory card international association cards, station four adapters, wiring kits, loaders, etc. as well as desired software enhancements to take advantage of new capabilities. LITENING kits for F/A-18D (lots 14 and up) were procured in prior years and have reconnaissance wiring. LITENING kits for F/A-18D (lots 12 and 13) are engineered for aircraft without reconnaissance wiring and were procured in FY13.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A+/C/D				Modification Type: CAPABILITY IMPROVEMENTS				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)													
A Kits													
Recurring													
1.1.1) F/A-18C A-kits - NonOrganic ⁽⁴⁷⁾		95 / 2.912	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 2.912	
1.1.2) F/A-18D A-Kits - NonOrganic		25 / 1.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 1.013	
1.1.3) A-kits Archive - Organic		87 / 3.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	87 / 3.191	
Subtotal: Recurring		- / 7.116	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 7.116	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.225	
Subtotal: Non-Recurring		- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.225	
B Kits													
Recurring													
2.1.1) B-kits Archive - Organic		64 / 120.716	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / 120.716	
Subtotal: Recurring		- / 120.716	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 120.716	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 6.216	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.216	
Subtotal: Non-Recurring		- / 6.216	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.216	
Subtotal: Litening AT Targeting Pod (OSIP 024-04)		271 / 135.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	271 / 135.273	
Subtotal: Procurement, All Modification Items		- / 135.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 135.273	
Support (All Modification Items)													
3.1) Engineering Change Orders		- / 10.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.025	
3.2) Data		- / 2.853	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.853	
3.3) Training Equipment		- / 0.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.289	
3.4) Support Equipment		- / 0.484	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.484	
3.5) ILS ⁽⁴⁸⁾		- / 2.567	- / 0.094	- / 0.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.759	
3.6) Other Support ⁽⁴⁹⁾		- / 12.365	- / 0.480	- / 0.444	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.289	
Subtotal: Support		- / 28.583	- / 0.574	- / 0.542	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 29.699	
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A+/C/D				Modification Type: CAPABILITY IMPROVEMENTS				Related RDT&E PEs:				
	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Financial Plan												
Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)	- / 0.873	- / 0.645	- / 0.571	- / 0.324	- / 0.000	- / 0.324	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2.413
Subtotal: Installation	- / 0.873	- / 0.645	- / 0.571	- / 0.324	- / -	- / 0.324	- / -	- / -	- / -	- / -	- / 0.000	- / 2.413
Total												
Total Cost (Procurement + Support + Installation)	164.729	1.219	1.113	0.324	0.000	0.324	0.000	0.000	0.000	0.000	0.000	167.385

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:				
Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)												
Manufacturer Information												
Manufacturer Name: Northrop Grumman - F/A-18C A-kits						Manufacturer Location: Shamburg, IL						
Administrative Leadtime (in Months): 9						Production Leadtime (in Months): 2						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: Northrop Grumman - F/A-18D A-kits						Manufacturer Location: Shamburg, IL						
Administrative Leadtime (in Months): 12						Production Leadtime (in Months): 25						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: Northrop Grumman - F/A-18D A-kits						Manufacturer Location: Shamburg, IL						
Administrative Leadtime (in Months): 12						Production Leadtime (in Months): 25						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime (in Months): 0						Production Leadtime (in Months): 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Navy Field Modification Team:: Installation Name: F/A-18C A-kits												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	71 / 0.792	11 / 0.361	13 / 0.247	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	95 / 1.400
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: F/A-18C A-kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	71 / 0.792	11 / 0.361	13 / 0.247	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	95 / 1.400

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	71	5	6	-	-	4	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95
Out	71	5	6	-	-	4	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95

Method of Implementation: Navy Field Modification Team:: Installation Name: F/A-18D A-Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.081	7 / 0.284	8 / 0.324	8 / 0.324	0 / 0.000	8 / 0.324	- / -	- / -	- / -	- / -	0 / 0.000	25 / 1.013
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.081	7 / 0.284	8 / 0.324	8 / 0.324	0 / 0.000	8 / 0.324	- / -	- / -	- / -	- / -	0 / 0.000	25 / 1.013

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Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)											
ID Code (A=Service Ready, B=Not Service Ready) :														MDAP/MAIS Code:																	
Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)																															
Installation Information																															
Method of Implementation: Navy Field Modification Team:: Installation Name: F/A-18D A-Kits																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	2	-	4	1	2	5	2	-	1	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
Out	2	-	4	1	2	5	2	-	1	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
Method of Implementation (Organic): A-kits Archive - Not Installed																				Installation Quantity: 87											
Method of Implementation (Organic): B-kits Archive - Not Installed																				Installation Quantity: 64											
Footnotes: ⁽⁴⁷⁾ Installs are aligned to the schedule provided by CNAF, to be completed with kits already procured. The kits were originally intended to be installed in FY15 and FY16. ⁽⁴⁸⁾ ILS costs are required for ongoing installs within this OSIP. ⁽⁴⁹⁾ Other Support costs are required for ongoing installs within this OSIP.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	942.463	219.347	130.400	165.683	0.000	165.683	181.508	96.375	52.728	120.307	76.783	1,985.594
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	942.463	219.347	130.400	165.683	0.000	165.683	181.508	96.375	52.728	120.307	76.783	1,985.594
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	942.463	219.347	130.400	165.683	0.000	165.683	181.508	96.375	52.728	120.307	76.783	1,985.594
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
The F/A-18E/F and EA-18G program has developed and integrated the APG-79 Active Electronically Scanned Array (AESA) radar system for installation in Lot 26 and subsequent Block II, Super Hornet and Growler aircraft. The integration of the APG-79 AESA radar system into the F/A-18E /F and EA-18G greatly improves the weapon system's threat detection range, high resolution synthetic aperture radar ground mapping and targeting capability, aircraft survivability and situational awareness. APG-79 AESA Radar Producibility Enhancement (ECP 6279) is an umbrella ECP and is comprised of Electro Magnetic Interference Upgrades (ECP 6298), Waveform Generator Firmware Upgrade (ECP 6329), and Power Conditioning Unit Upgrade to -120 (ECP 6314). The Configuration D upgrade includes the following ECPs: General Purpose Processor (GPP)3 (ECP 6381); 5th and 6th Channel (ECP 6344); Waveform Generator (ECP 6346), Waveform Generator- R2 Firmware (ECP 6346R2), and General Purpose Processor (GPP)3 General Purpose Controller (GPC) (ECP 6381). Corrections, modifications, and upgrades to Radar software is supported in compliance with system configuration set (SCS) builds.												
This Operational, Safety and Improvement Program (OSIP) also includes recurring and non-recurring efforts for reliability and operational safety improvements to, as well as obsolescence mitigation for, the APG-65 and APG-73 radars. These efforts include: retrofit incorporation of APG-73 into F/A-18 A+C/D- AFC 585 Kits (ECP 620), Modification of radar ON-500/USM interconnecting group Operational Test Program Set (OTPS) plug in unit radio frequency cables (ECP 1132-11), modification of radar ON-451/USM interconnecting group Shop Replaceable Assembly (SRA) OTPS (ECP 1133-11), incorporation of radar ON-415/USM interconnecting group OTPS plug in unit extender cables (ECP 1134-11), incorporation of radar ON-415/USM interconnecting group receiver test program set extender cables (ECP 1135-11), modification of F/A-18 APG-73 radar receiver 2A2 SRA Part Number (P/N) 5144070-10 TO P/N 5144070-20 (ECP 1190-15), modification of F/A-18 APG-73 radar power supply 7A1 SRA (ECP 1198-16), and obsolete microcircuit upgrade (ECP 1187-15).												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:												
Forward fit of the APG-79 AESA radar system began with 8 units in Lot 27, 12 units in Lot 28 and 22 units in Lot 29. Beginning in Lot 30, all F/A-18 E/F and EA-18G aircraft will be delivered with the APG-79 AESA radar. This OSIP includes the retrofit of the APG-79 AESA system into 133 Lot 26-29 F/A-18E/F aircraft originally delivered with APG-73. Obsolescence is included for the APG-79 AESA to address non-recurring activities driven by vanishing suppliers and limited military demand for commercial parts/components. The procurement of kits commenced in FY 2008 with the first installation occurring in FY 2009.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: AVIONICS UPGRADE				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)													
A Kits													
Recurring													
1.1.1) Radome (ECP-6038) - NonOrganic		131 / 37.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	131 / 37.494	
1.1.2) ECP 620 A3 KITS AFC 585 - NonOrganic		30 / 0.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.734	
Subtotal: Recurring		- / 38.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 38.228	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 4.395	- / 1.808	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.203	
Subtotal: Non-Recurring		- / 4.395	- / 1.808	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.203	
B Kits													
Recurring													
2.1.1) Modules Kits (WRAs) (ECP-6279) - NonOrganic (50)		167 / 69.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	167 / 69.660	
2.1.2) GPP3 (ECP 6381) - Organic		16 / 4.646	370 / 78.272	75 / 30.755	123 / 50.430	- / -	123 / 50.430	30 / 12.870	- / -	- / -	- / -	614 / 176.973	
2.1.3) 5th and 6th Channel (ECP 6344) - NonOrganic		16 / 2.892	370 / 53.833	75 / 28.880	123 / 47.355	- / -	123 / 47.355	30 / 12.090	- / -	- / -	- / -	614 / 145.050	
2.1.4) Waveform Generator HW (ECP 6346) - Organic		16 / 1.939	370 / 32.782	75 / 7.300	123 / 11.931	- / -	123 / 11.931	16 / 2.448	- / -	- / -	- / -	600 / 56.400	
2.1.5) Waveform Generator FW (ECP 6346) - Organic		- / -	- / -	95 / 1.140	50 / 0.610	- / -	50 / 0.610	45 / 0.540	15 / 0.180	- / -	- / -	205 / 2.470	
2.1.6) APG-65/73 obsolescence - Organic (51)		- / 2.461	- / -	- / 3.250	- / 3.305	- / -	- / 3.305	- / 14.073	- / 8.315	- / 1.468	- / 10.100	- / 11.776	- / 54.748
2.1.7) APG-79 obsolescence - Organic (52)		- / 4.399	- / -	- / 3.878	- / 2.728	- / -	- / 2.728	- / 12.679	- / 9.603	- / 1.448	- / 10.363	- / 12.500	- / 57.598
2.1.8) B-Kits Archive - Organic		- / 456.387	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 456.387	
Subtotal: Recurring		- / 542.384	- / 164.887	- / 75.203	- / 116.359	- / -	- / 116.359	- / 54.700	- / 18.098	- / 2.916	- / 20.463	- / 24.276	- / 1,019.286
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 221.582	- / 17.178	- / 18.808	- / 18.971	- / -	- / 18.971	- / 78.873	- / 38.786	- / 14.084	- / 56.508	- / 13.365	- / 478.155
Subtotal: Non-Recurring		- / 221.582	- / 17.178	- / 18.808	- / 18.971	- / -	- / 18.971	- / 78.873	- / 38.786	- / 14.084	- / 56.508	- / 13.365	- / 478.155
Subtotal: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)		376 / 806.589	1,110 / 183.873	320 / 94.011	419 / 135.330	- / -	419 / 135.330	121 / 133.573	15 / 56.884	- / 17.000	- / 76.971	- / 37.641	2,361 / 1,541.872
Subtotal: Procurement, All Modification Items		- / 806.589	- / 183.873	- / 94.011	- / 135.330	- / -	- / 135.330	- / 133.573	- / 56.884	- / 17.000	- / 76.971	- / 37.641	- / 1,541.872
Support (All Modification Items)													
3.1) Engineering Change Orders		- / 34.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.268

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: AVIONICS UPGRADE				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
3.2) Software - Legacy Radar Software Upgrades ⁽⁵³⁾	- / 7.518	- / 6.881	- / 8.508	- / 4.010	- / -	- / 4.010	- / 8.922	- / 4.319	- / 7.953	- / 12.537	- / 12.760	- / 73.408	
3.3) Software - AESA Short Range Improvement S/W Upgrade ⁽⁵⁴⁾	- / 5.191	- / 12.915	- / 8.779	- / 5.349	- / -	- / 5.349	- / 14.348	- / 14.996	- / 11.258	- / 15.310	- / 15.935	- / 104.081	
3.4) Data	- / 1.526	- / 0.008	- / 0.250	- / 0.250	- / -	- / 0.250	- / 0.250	- / 0.250	- / 0.255	- / 0.255	- / 0.255	- / 3.299	
3.6) Support Equipment	- / 13.076	- / 1.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.078	
3.7) ILS	- / 7.353	- / 0.242	- / 0.246	- / 0.250	- / -	- / 0.250	- / 0.255	- / 0.259	- / 0.264	- / 0.269	- / 3.225	- / 12.363	
3.8) Other Support	- / 57.835	- / 13.651	- / 13.688	- / 13.934	- / -	- / 13.934	- / 14.185	- / 14.441	- / 14.700	- / 14.965	- / 6.967	- / 164.366	
<i>Subtotal: Support</i>	- / 126.767	- / 34.699	- / 31.471	- / 23.793	- / -	- / 23.793	- / 37.960	- / 34.265	- / 34.430	- / 43.336	- / 39.142	- / 405.863	
Installation													
Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)	- / 9.107	- / 0.775	- / 4.918	- / 6.560	- / 0.000	- / 6.560	- / 9.975	- / 5.226	- / 1.298	- / 0.000	- / 0.000	- / 37.859	
<i>Subtotal: Installation</i>	- / 9.107	- / 0.775	- / 4.918	- / 6.560	- / -	- / 6.560	- / 9.975	- / 5.226	- / 1.298	- / -	- / 0.000	- / 37.859	
Total													
Total Cost (Procurement + Support + Installation)	942.463	219.347	130.400	165.683	0.000	165.683	181.508	96.375	52.728	120.307	76.783	1,985.594	

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series		Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)							
Manufacturer Information							
Manufacturer Name: Raytheon - ECP 6344				Manufacturer Location: El Segundo, CA			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jun 2017	Mar 2018	Mar 2019	Mar 2020			
Delivery Dates	Jul 2018	Sep 2019	Sep 2020	Sep 2021			
Manufacturer Name: Raytheon - ECP 6279				Manufacturer Location: El Segundo, CA			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Multi				Manufacturer Location: Multi			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 6038				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 9				Production Leadtime (<i>in Months</i>): 19			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA & FRC SW North Island - ECP 620				Manufacturer Location: Orange Park, Florida & San Diego, CA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

Installation Information

Method of Implementation: Various:: Installation Name: Prior Year Installs

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	218 / 9.107	70 / 0.514	40 / 3.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	328 / 12.653
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	218 / 9.107	70 / 0.514	40 / 3.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	328 / 12.653

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	218	17	16	22	15	6	12	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	328
Out	218	17	16	22	15	6	12	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	328

Method of Implementation: FRC:: Installation Name: 5th and 6th Channel (ECP 6344)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	16 / 0.261	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	16 / 0.261
FY 2017	- / -	- / -	46 / 1.886	160 / 6.560	0 / 0.000	160 / 6.560	164 / 6.888	- / -	- / -	- / -	0 / 0.000	370 / 15.334
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.087	- / -	- / -	- / -	0 / 0.000	75 / 3.087
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	123 / 5.226	- / -	- / -	0 / 0.000	123 / 5.226
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.298	- / -	0 / 0.000	30 / 1.298
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)																																							
Installation Information																																							
Method of Implementation: FRC:: Installation Name: 5th and 6th Channel (ECP 6344)																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																										
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
Total		- / -	16 / 0.261	46 / 1.886	160 / 6.560	0 / 0.000	160 / 6.560	239 / 9.975	123 / 5.226	30 / 1.298	- / -	0 / 0.000	614 / 25.206																										
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	4	4	4	4	-	-	-	46	52	54	54	-	69	70	70	30	31	31	31	30	8	8	7	7	-	-	-	-	-	614								
Out	-	4	4	4	4	-	-	-	46	52	54	54	-	69	70	70	30	31	31	31	30	8	8	7	7	-	-	-	-	-	614								
Method of Implementation (Organic): GPP3 (ECP 6381)																														Installation Quantity: 614									
Method of Implementation (Organic): Waveform Generator HW (ECP 6346)																														Installation Quantity: 600									
Method of Implementation (Organic): Waveform Generator FW (ECP 6346)																														Installation Quantity: 205									
Footnotes: ⁽⁵⁰⁾ ECP 6279 installs are dependent upon squadron availability. ⁽⁵¹⁾ Costs for obsolescence kits vary because obsolescence issues are not an ongoing effort for a single item and are not subject to inflation driven increases. The requirement for obsolescence kits was determined by evaluating historic life of type buy costs for analogous systems. These costs were projected to support future obsolescence issues in the affected components. Obsolescence efforts have been underfunded for the past, causing the program to reallocate current-year budget to cover emergent obsolescence mitigation efforts per Resource Sponsor direction. The increases from year to year are necessary to recover from several years of shortfalls. ⁽⁵²⁾ Costs for obsolescence kits vary because obsolescence issues are not an ongoing effort for a single item and are not subject to inflation driven increases. The requirement for obsolescence kits was determined by evaluating historic life of type buy costs for analogous systems. These costs were projected to support future obsolescence issues in the affected components. Obsolescence efforts have been underfunded for the past few years, causing the program to reallocate current-year budget to cover emergent obsolescence mitigation efforts per Resource Sponsor direction. The increases from year to year are necessary to recover from several years of shortfalls. ⁽⁵³⁾ There are no quantities associated with software modifications. ⁽⁵⁴⁾ There are no quantities associated with software modifications.																																							

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 13 / EW Unique (OSIP 021-08)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	219.604	15.275	49.040	41.302	0.000	41.302	28.797	34.353	30.860	31.597	82.150	532.978
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	219.604	15.275	49.040	41.302	0.000	41.302	28.797	34.353	30.860	31.597	82.150	532.978
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	219.604	15.275	49.040	41.302	0.000	41.302	28.797	34.353	30.860	31.597	82.150	532.978
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Purchase additional ALR-67(V)3 Radar Warning Receiver (RWR) systems and ALQ-214(V)4/5 self-protection onboard jammer systems to be used to retrofit F/A-18C/D/E/F platforms. These systems will replace existing ALR-67(V)2 RWR and ALQ-126B or ALQ-165 jammer systems. This will significantly increase aircrew survivability in the legacy F/A-18. The repetitive obsolescence issues of the V(2), ALQ-165, and ALQ-126B systems is a consistent issue in the F/A-18 community. The RWR ALR-67(V)3 is the threat recognition providing situational awareness for the aircrew and is vital to their own safety as well as providing the opportunity to support the ground troops. The jammer ALQ-214 provides incremental, significant improvement in survivability against RF threats. These retrofits reduce the risk of lost aircraft and aircrew in a hostile environment, improves close air support, and reduces the risk of blue on blue fratricide. The Operational, Safety and Improvement Program (OSIP) also performs required safety of flight modifications, addresses obsolescence issues and incorporates system improvements for all electronic warfare unique requirements to include hardware and software modifications. Current ECPs include ECP 622 (ALR-67(V)3), ECP 6441 (Antenna replacement), ECP 6389 (ALQ-214(V)4/5) Software and ITEMS updates are also required as a result of these modifications. ALR-67(V)3 and ALQ-214(V)4/5 kit procurements are required for aircraft installation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: ALR-67V(3) development and integration efforts started in FY10 and delivery and installs of A-kits began in FY14 and will continue through FY20 on the ALR-67(V)3 and FY24 on the ALQ-214.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 13 / EW Unique (OSIP 021-08)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18C/D/E/F ALR-67(V)3 Retrofit				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: EW Unique (OSIP 021-08)													
A Kits													
Recurring													
1.1.1) ALR 67(V)3 (ECP 622) -- OCO - NonOrganic ⁽⁵⁵⁾	100 / 4.123	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 4.123	
1.1.2) ALR 67(V)3 (ECP 622) - NonOrganic	- / -	24 / 5.640	10 / 4.490	34 / 15.280	- / -	34 / 15.280	5 / 2.292	5 / 2.338	5 / 2.385	5 / 2.432	- / -	88 / 34.857	
1.1.3) ECP 6389 (ALQ-214) - Organic	5 / 0.863	- / -	15 / 32.040	7 / 14.952	- / -	7 / 14.952	8 / 16.048	10 / 21.470	9 / 18.513	7 / 17.017	14 / 34.715	75 / 155.618	
1.1.4) ECP 6441 - Organic	- / -	90 / 2.882	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 2.882	
1.1.5) A-Kits Archive - Organic	5 / 0.863	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.863	
Subtotal: Recurring	- / 5.849	- / 8.522	- / 36.530	- / 30.232	- / -	- / 30.232	- / 18.340	- / 23.808	- / 20.898	- / 19.449	- / 34.715	- / 198.343	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 2.792	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.792	
Subtotal: Non-Recurring	- / 2.792	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.792	
B Kits													
Recurring													
2.1.1) B-Kits Archive - Organic	- / 163.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 163.408	
Subtotal: Recurring	- / 163.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 163.408	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 12.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.190	
Subtotal: Non-Recurring	- / 12.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 12.190	
Subtotal: EW Unique (OSIP 021-08)	110 / 184.239	114 / 8.522	25 / 36.530	41 / 30.232	- / -	41 / 30.232	13 / 18.340	15 / 23.808	14 / 20.898	12 / 19.449	14 / 34.715	358 / 376.733	
Subtotal: Procurement, All Modification Items	- / 184.239	- / 8.522	- / 36.530	- / 30.232	- / -	- / 30.232	- / 18.340	- / 23.808	- / 20.898	- / 19.449	- / 34.715	- / 376.733	
Support (All Modification Items)													
3.2) Software - ALR-67(V)3 system S/W upgrade	- / 17.475	- / 5.000	- / 2.714	- / 1.981	- / -	- / 1.981	- / 0.986	- / 1.542	- / 0.780	- / 2.782	- / -	- / 33.260	
3.3) Data	- / 1.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.045	
3.4) Training Equipment	- / 0.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.276	
3.5) Support Equipment	- / 7.321	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.321	
3.6) ILS	- / 2.617	- / 0.140	- / 0.500	- / 0.510	- / -	- / 0.510	- / 0.520	- / 0.531	- / 0.541	- / 0.552	- / 2.815	- / 8.726	
3.7) Other Support	- / 5.856	- / 1.165	- / 7.911	- / 8.069	- / -	- / 8.069	- / 8.231	- / 8.395	- / 8.563	- / 8.734	- / 44.545	- / 101.469	
Subtotal: Support	- / 34.590	- / 6.305	- / 11.125	- / 10.560	- / -	- / 10.560	- / 9.737	- / 10.468	- / 9.884	- / 12.068	- / 47.360	- / 152.097	
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 13 / EW Unique (OSIP 021-08)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18C/D/E/F ALR-67(V)3 Retrofit				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
	Modification Item 1 of 1: EW Unique (OSIP 021-08)	- / 0.775	- / 0.448	- / 1.385	- / 0.510	- / 0.000	- / 0.510	- / 0.720	- / 0.077	- / 0.078	- / 0.080	- / 0.075	- / 4.148
Subtotal: Installation	- / 0.775	- / 0.448	- / 1.385	- / 0.510	- / -	- / 0.510	- / 0.720	- / 0.077	- / 0.078	- / 0.080	- / 0.075	- / 4.148	
Total													
Total Cost (Procurement + Support + Installation)	219.604	15.275	49.040	41.302	0.000	41.302	28.797	34.353	30.860	31.597	82.150	532.978	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 13 / EW Unique (OSIP 021-08)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: EW Unique (OSIP 021-08)												
Manufacturer Information												
Manufacturer Name: Raytheon - ALR-67(V)3 (ECP 622)							Manufacturer Location: Forrest, MS					
Administrative Leadtime (<i>in Months</i>): 9							Production Leadtime (<i>in Months</i>): 9					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Feb 2018	Jul 2018	Jul 2019	Jul 2020	Jul 2021	Jul 2022	Jul 2023					
Delivery Dates	Jul 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	Apr 2023	Apr 2024					
Manufacturer Name: Raytheon - ALR-67(V)3 (ECP 622) - OCO							Manufacturer Location: Forrest, MS					
Administrative Leadtime (<i>in Months</i>): 9							Production Leadtime (<i>in Months</i>): 9					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: Raytheon - ALR-67(V)3 USMC Cong Add							Manufacturer Location: Forrest, MS					
Administrative Leadtime (<i>in Months</i>): 6							Production Leadtime (<i>in Months</i>): 18					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Navy Drive-In Modification:: Installation Name: ALR 67(V)3 (ECP 622) -- OCO												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	14 / 0.775	5 / 0.448	48 / 1.025	24 / 0.360	0 / 0.000	24 / 0.360	9 / 0.210	- / -	- / -	- / -	0 / 0.000	100 / 2.818
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	14 / 0.775	5 / 0.448	48 / 1.025	24 / 0.360	0 / 0.000	24 / 0.360	9 / 0.210	- / -	- / -	- / -	0 / 0.000	100 / 2.818

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0525 / F-18 Series											Modification Number / Title: 13 / EW Unique (OSIP 021-08)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: EW Unique (OSIP 021-08)																															
Installation Information																															
Method of Implementation: Navy Drive-In Modification:: Installation Name: ALR 67(V)3 (ECP 622) -- OCO																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	14	-	2	3	-	12	12	12	12	6	6	6	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
Out	14	-	2	3	-	12	12	12	12	6	6	6	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
Method of Implementation: Navy Drive-In Modification:: Installation Name: ALR 67(V)3 (ECP 622)																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		24 / 0.360		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		24 / 0.360					
FY 2018		- / -		- / -		- / -		10 / 0.150		0 / 0.000		10 / 0.150		- / -		- / -		- / -		- / -		- / -		0 / 0.000		10 / 0.150					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		34 / 0.510		- / -		- / -		- / -		- / -		0 / 0.000		34 / 0.510					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.077		- / -		- / -		- / -		0 / 0.000		5 / 0.077					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.078		- / -		- / -		0 / 0.000		5 / 0.078					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.080		0 / 0.000		5 / 0.080					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.075		5 / 0.075					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		24 / 0.360		10 / 0.150		0 / 0.000		10 / 0.150		34 / 0.510		5 / 0.077		5 / 0.078		5 / 0.080		5 / 0.075		88 / 1.330							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	24	-	-	5	5	-	-	17	17	-	-	2	3	-	-	2	3	-	-	2	3	5	88
Out	-	-	-	-	-	-	-	-	24	-	-	5	5	-	-	17	17	-	-	2	3	-	-	2	3	-	-	2	3	5	88
Method of Implementation (Organic): ECP 6389 (ALQ-214) - Not Installed																															
																							Installation Quantity: 75								
Method of Implementation (Organic): ECP 6441																															
																							Installation Quantity: 90								

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 13 / EW Unique (OSIP 021-08)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: EW Unique (OSIP 021-08)		
Installation Information		
Method of Implementation (Organic): A-Kits Archive		Installation Quantity: 5

Footnotes:
(55) ALR 67(V)3 (ECP 622) OCO Qty 100 being installed with Baseline funding.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	212.370	43.468	32.505	25.165	0.000	25.165	50.615	37.715	41.431	91.428	10.317	545.014
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	212.370	43.468	32.505	25.165	0.000	25.165	50.615	37.715	41.431	91.428	10.317	545.014
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	212.370	43.468	32.505	25.165	0.000	25.165	50.615	37.715	41.431	91.428	10.317	545.014
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Operational, Safety and Improvement Program (OSIP) 001-10 will implement a common configuration and capability across all F/A-18A-F and EA-18G aircraft. Improving platform performance in all mission areas including Surface Warfare (SuW), air-to-air, strike, Suppression of Enemy Air Defenses (SEAD)/Defensive Electronic Counter Measurements (DECD) and interoperability which will result in a reduction of a number of aircraft and weapons to execute SuW and strike missions in most stressing scenarios, decrease in time on target to execute SuW, SEAD/DECD missions in major combat operations scenarios and will improve survivability due to decreased time on target. The F/A-18 program has developed and integrated multiple systems to be installed in Lot 26 and subsequent block 2 and block 3 aircraft. The integration of the systems: ECP 6253 - Distributed Targeting System (DTS), Distributed Targeting Processor - Network (DTP-N), ECP 6442 - Data Transfer Unit (DTU), ECP 6393 - Digital Memory Device (DMD), Advanced Navigation (ANAV), ECP 6318 - Upgraded Solid State Recorder (USSR), digital cueing systems and G4 processor, and interoperability modifications due to multifunctional information distribution system low volume terminal and digital communication system radio military-standard will greatly improve the weapon systems threat capability. This OSIP will implement the required architecture in support of Navigation Plan 2030. The ANAV retrofit implements an advanced inertial navigation system/global positioning system that increases platform navigation accuracy and smart weapon targeting solutions. Due to ANAV obsolescence and continued aircraft production, the ANAV retrofit for E/F Lots 26-29 (ECP 6340R1) (TD574) has been put into abeyance in order to supply retrofit ANAVs for production aircraft deliveries. The current plan is for the PMW170 ANAV-M program to replace the ANAV, which will allow the ANAV retrofit program to be completed. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: DMD, ANAV, and digital countermeasure receiver were fully developed in FY 2008. DTS achieved IOC in Oct 2013. DTP-N is scheduled to complete non-recurring engineering in 2019, with procurement scheduled for 2020 and fielding in 2021. DTU has completed development up to and including Physical Configuration Audit. USSR (ECP-6318) is fully developed and being installed (EA-18G is complete, F/A-18F ongoing). USSR RMM Upgrade has been cancelled. USSR has reached terminal end of production due to technology obsolescence and will be replaced by the HDVR (OSIP 23-04). Conversion of Lots 30-32.5 from 12 channel ANAVS to 24 channel ANAVs was complete in July 2017.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Avionics Upgrade				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)													
A Kits													
Recurring													
1.1.1) USSR A-Kit - NonOrganic		175 / 7.474	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	175 / 7.474	
1.1.2) DTS A1 KITS (LOTS 26-29) (ECP 6253) - NonOrganic ⁽⁵⁶⁾		169 / 6.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	169 / 6.165	
1.1.3) DTP-N A-kits (A1) - Organic		- / -	- / -	- / -	- / -	- / -	24 / 0.413	23 / 0.403	26 / 0.464	87 / 1.566	- / -	160 / 2.846	
1.1.4) DTP-N A-kits (A2) - Organic		- / -	- / -	- / -	- / -	- / -	12 / 0.124	16 / 0.169	24 / 0.258	84 / 0.924	- / -	136 / 1.475	
1.1.5) DMD A Kit (LOTS 26-29) - NonOrganic		75 / 5.242	55 / 1.955	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	130 / 7.197	
1.1.6) DMD Replacement Kits - NonOrganic		91 / 0.929	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 0.929	
1.1.7) DTU A-kits - Organic		28 / 0.000	- / -	90 / 0.001	101 / 0.001	- / -	101 / 0.001	110 / 0.001	110 / 0.001	- / -	65 / 0.001	605 / 0.006	
1.1.8) A-Kits Archive - Organic		532 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	532 / 0.800	
Subtotal: Recurring		- / 20.610	- / 1.955	- / 0.001	- / 0.001	- / -	- / 0.001	- / 0.538	- / 0.573	- / 0.723	- / 2.490	- / 0.001	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽⁵⁷⁾		- / 13.189	- / -	- / -	- / 1.050	- / -	- / 1.050	- / 6.886	- / -	- / -	- / -	- / 21.125	
Subtotal: Non-Recurring		- / 13.189	- / -	- / -	- / 1.050	- / -	- / 1.050	- / 6.886	- / -	- / -	- / -	- / 0.000	
B Kits													
Recurring													
2.1.1) ANAV kit with WRA - NonOrganic		166 / 16.077	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	166 / 16.077	
2.1.2) DTS B kits (lots 26 and above) (ECP 6253) - Organic		314 / 78.300	54 / 13.068	51 / 11.810	7 / 1.650	- / -	7 / 1.650	5 / 1.214	- / -	- / -	- / -	431 / 106.042	
2.1.3) DTP-N B-kits (DTP-N, MSU, BDCs) - Organic		- / -	- / -	- / -	- / -	- / -	- / -	24 / 20.424	23 / 17.831	26 / 21.328	87 / 70.771	160 / 130.354	
2.1.4) DTU Kits - Organic		47 / 2.690	138 / 9.366	90 / 5.400	101 / 6.082	- / -	101 / 6.082	101 / 6.192	110 / 6.865	110 / 6.988	85 / 5.497	782 / 49.080	
2.1.5) DTU Ground Encryptor - Organic		25 / 1.170	157 / 8.149	94 / 4.606	100 / 4.988	- / -	100 / 4.988	100 / 5.078	91 / 4.704	86 / 4.526	75 / 4.018	728 / 37.239	
2.1.6) DTU Memory Modules - Organic ⁽⁵⁸⁾		252 / 0.462	398 / 1.500	558 / 1.060	624 / 1.207	- / -	624 / 1.207	530 / 1.044	501 / 1.004	616 / 1.257	600 / 1.246	4,079 / 8.780	
2.1.7) DTU AME Cables - Organic		63 / 0.081	80 / 0.196	88 / 0.114	80 / 0.106	- / -	80 / 0.106	81 / 0.109	10 / 0.014	31 / 0.043	25 / 0.036	458 / 0.699	
2.1.8) B-Kits Archive - Organic		739 / 29.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	739 / 29.605	
Subtotal: Recurring		- / 128.385	- / 32.279	- / 22.990	- / 14.033	- / -	- / 14.033	- / 34.061	- / 30.418	- / 34.142	- / 81.568	- / 0.000	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽⁵⁹⁾		- / 6.443	- / -	- / 1.769	- / 0.312	- / -	- / 0.312	- / 3.108	- / 1.323	- / 1.701	- / -	- / 15.924	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Avionics Upgrade				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Non-Recurring</i>	- / 6.443	- / -	- / 1.769	- / 0.312	- / -	- / 0.312	- / 3.108	- / 1.323	- / 1.701	- / -	- / 1.268	- / 15.924	
<i>Subtotal: Network Centric Operations: (OSIP 001-10)</i>	2,676 / 168.627	882 / 34.234	971 / 24.760	1,013 / 15.396	- / -	1,013 / 15.396	978 / 44.593	884 / 32.314	1,029 / 36.566	1,043 / 84.058	65 / 1.269	9,541 / 441.817	
<i>Subtotal: Procurement, All Modification Items</i>	- / 168.627	- / 34.234	- / 24.760	- / 15.396	- / -	- / 15.396	- / 44.593	- / 32.314	- / 36.566	- / 84.058	- / 1.269	- / 441.817	
Support (All Modification Items)													
3.2) Data	- / 2.501	- / -	- / 0.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.666	
3.3) Training Equipment	- / -	- / -	- / -	- / 0.337	- / -	- / 0.337	- / -	- / -	- / -	- / 1.728	- / -	- / 2.065	
3.4) Support Equipment	- / 11.128	- / 1.253	- / 0.302	- / 0.388	- / -	- / 0.388	- / 0.807	- / 0.090	- / 0.090	- / -	- / -	- / 14.058	
3.5) ILS	- / 11.220	- / 1.799	- / 2.566	- / 2.605	- / -	- / 2.605	- / 2.588	- / 2.636	- / 2.683	- / 2.742	- / 1.952	- / 30.791	
3.6) Other Support	- / 13.578	- / 2.657	- / 2.708	- / 2.498	- / -	- / 2.498	- / 2.018	- / 2.054	- / 2.092	- / 2.900	- / 7.096	- / 37.601	
<i>Subtotal: Support</i>	- / 38.427	- / 5.709	- / 5.741	- / 5.828	- / -	- / 5.828	- / 5.413	- / 4.780	- / 4.865	- / 7.370	- / 9.048	- / 87.181	
Installation													
<i>Modification Item 1 of 1:</i> Network Centric Operations: (OSIP 001-10)	- / 5.316	- / 3.525	- / 2.004	- / 3.941	- / 0.000	- / 3.941	- / 0.609	- / 0.621	- / 0.000	- / 0.000	- / 0.000	- / 16.016	
<i>Subtotal: Installation</i>	- / 5.316	- / 3.525	- / 2.004	- / 3.941	- / -	- / 3.941	- / 0.609	- / 0.621	- / -	- / -	- / 0.000	- / 16.016	
Total													
Total Cost (Procurement + Support + Installation)	212.370	43.468	32.505	25.165	0.000	25.165	50.615	37.715	41.431	91.428	10.317	545.014	

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)							
Manufacturer Information							
Manufacturer Name: Boeing - USSR (A-Kit)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 30			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - DMD Replacement Kits				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 15			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ANAV kit with WRA				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - DMD A Kit (LOTS 26-29)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 33			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2017						
Delivery Dates	Jul 2020						
Manufacturer Name: Boeing - DTS A1 KITS (LOTS 26-29)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 9				Production Leadtime (<i>in Months</i>): 28			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0525 / F-18 Series											Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)										
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:																					
Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)																																
Manufacturer Information																																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Delivery Dates																																
Installation Information																																
Method of Implementation: Various:: Installation Name: Prior Year Procurements																																
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		319 / 4.966		128 / 3.435		48 / 1.785		106 / 3.715		0 / 0.000		106 / 3.715		- / -		- / -		- / -		- / -		0 / 0.000		601 / 13.901								
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
Total		319 / 4.966		128 / 3.435		48 / 1.785		106 / 3.715		0 / 0.000		106 / 3.715		- / -		- / -		- / -		- / -		0 / 0.000		601 / 13.901								
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot	
In	319	18	18	45	47	9	13	13	13	26	26	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	601	
Out	319	18	18	45	47	9	13	13	13	26	26	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	601	
Method of Implementation: Navy Field Modification Team:: Installation Name: DMD A Kit (LOTS 26-29)																																
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		21 / 0.350		5 / 0.090		12 / 0.219		12 / 0.226		0 / 0.000		12 / 0.226		25 / 0.500		- / -		- / -		- / -		0 / 0.000		75 / 1.385								
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		12 / 0.109		43 / 0.621		- / -		- / -		0 / 0.000		55 / 0.730								
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)																															
Installation Information																															
Method of Implementation: Navy Field Modification Team:: Installation Name: DMD A Kit (LOTS 26-29)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		21 / 0.350	5 / 0.090	12 / 0.219	12 / 0.226	0 / 0.000	12 / 0.226	37 / 0.609	43 / 0.621	- / -	- / -	0 / 0.000	130 / 2.115																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	21	-	-	-	5	3	3	3	3	3	3	3	3	9	8	8	12	14	14	15	-	-	-	-	-	-	-	-	-	-	-
Out	21	-	-	-	5	3	3	3	3	3	3	3	3	9	8	8	12	14	14	15	-	-	-	-	-	-	-	-	-	-	-
Method of Implementation (Organic): DTP-N A-kits (A1) - Not Installed																														Installation Quantity: 160	
Method of Implementation (Organic): DTP-N A-kits (A2) - Not Installed																														Installation Quantity: 136	
Method of Implementation (Organic): DTU A-kits - Not Installed																														Installation Quantity: 605	
Method of Implementation (Organic): A-Kits Archive - Not Installed																														Installation Quantity: 532	
Method of Implementation (Organic): DTS B kits (lots 26 and above) (ECP 6253)																														Installation Quantity: 431	
Method of Implementation (Organic): DTP-N B-kits (DTP-N, MSU, BDCs)																														Installation Quantity: 160	
Method of Implementation (Organic): DTU Kits - Not Installed																														Installation Quantity: 782	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)		
Installation Information		
Method of Implementation (Organic): DTU Ground Encryptor - Not Installed		Installation Quantity: 728
Method of Implementation (Organic): DTU Memory Modules - Not Installed		Installation Quantity: 4079
Method of Implementation (Organic): DTU AME Cables - Not Installed		Installation Quantity: 458
Method of Implementation (Organic): B-Kits Archive - Not Installed		Installation Quantity: 739
Footnotes: ⁽⁵⁶⁾ DTS Kit installs were delayed due to non-availability of fleet aircraft. ⁽⁵⁷⁾ Install Kits N/R in FY19 and FY20 are for DTS engineering in support of Block III retrofits. ⁽⁵⁸⁾ DTU Memory Modules are procured with a quantity of 5 per aircraft. ⁽⁵⁹⁾ Increase in FY18 is due to NRE efforts for Distributed Targeting Processor-Network (DTP-N).		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	104.581	31.077	34.804	46.905	0.000	46.905	73.526	94.790	103.558	106.107	185.867	781.215
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	104.581	31.077	34.804	46.905	0.000	46.905	73.526	94.790	103.558	106.107	185.867	781.215
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	104.581	31.077	34.804	46.905	0.000	46.905	73.526	94.790	103.558	106.107	185.867	781.215
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

With EA-18G aircraft achieving initial operational capability in FY2009, an Operational, Safety and Improvement Program (OSIP) to perform required safety of flight modifications, address obsolescence issues, and incorporate system improvements was established. Funding supports the retrofit of the ALQ-99 tactical jamming system. ECP 6360, the Joint Tactical Terminal-Receiver (JTT-R) was developed to replace the Multi-Mission Advanced Tactical Terminal (MATT) to address MATT obsolescence and capability deficiencies. OSIP funding was used to retrofit the aircraft with JTT-R at the completion of the development program. Future SATCOM (i.e. JTT-R) modifications will exist on EA-18G and will require funding for software and hardware updates. OSIP funding will also support a common configuration and airborne electronic attack (AEA) I-level standup which includes the procurement and fielding of operational test program sets (OTPS) as support equipment for the I-level stand up. Funds are required to support Weapons Replaceable Assemblies (WRAs) and Shop Replaceable Assemblies (SRAs) to achieve depot standup SRA/WRA capability. EA-18G software modifications are budgeted to support and stay abreast with emerging electronic warfare threats and the software modifications required to react to those threats. OSIP funding will be used to retrofit ALQ-218(V)2 hardware and software on board the EA-18G for increased emitter detection (ECP 6482 Airborne Electronic Attack Systems Enhancements (ASE)). ECP 6312 (EA-18G AESA Blanking Wire Group and CCS Mid-board Group A) supports Counter Communications Set (CCS)/ AESA Blanking capabilities during future jamming operations for EA-18G. This ECP adds CCS provisional wiring as well as a blanking wire from the AESA/Electronic Interface Blanking Unit (EIBU) to the ALQ-218(V)2 onboard the EA-18G. ECP 6441 is for removal/replacement of EA-18G ALR-67(V)3 antennas with placeholders for the EA-18G to support future jamming capabilities. ECP 6444 is part of the weight reduction initiative in order to support future EA-18G modifications and jamming capabilities. ECP 6479 is an EA-18G aircraft wiring modification supporting the software upgrade of Time Difference of Arrival (TDOA) one pulse per second signal. ECP 6464 addresses EIBU obsolescence and incorporates the Radio Frequency Blanking Unit (RFBU) as a form, fit, function replacement to the EIBU to support EA-18G operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Aircraft production A-kit buys in FY10-13 [58 aircraft (A/C)] with installs in FY11-14 (58 A/C) using Aircraft Procurement, Navy-1. Retrofit A-kit buys in FY13-15 (54 a/c) with installations in FY15-17. Retrofit B-kit procurements in FY13-FY15 with O-level installs beginning in FY16 in alignment with H-10 fleet release.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: EA-18G			Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: EA-18G Unique OSIP (011-10)													
A Kits													
Recurring													
1.1.1) A-kits Archive - Organic		- / 6.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.620	
1.1.2) ECP 6312 - EA-18G AESA Blanking Wire Group A and CCS Mid-board Group A - NonOrganic		4 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.400	
1.1.3) ECP 6444 - EA-18G Weight Reduction Initiative - NonOrganic		2 / 0.110	13 / 0.715	- / -	8 / 0.440	- / -	8 / 0.440	12 / 0.660	16 / 0.896	24 / 1.344	24 / 1.368	61 / 3.538 160 / 9.071	
1.1.4) ECP 6479 - One Pulse Per Second (1PPS) - NonOrganic		155 / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	155 / 0.025	
1.1.5) ECP 6482 - ASE (ALQ-218 Modifications) - NonOrganic		- / -	- / -	- / -	8 / 0.008	- / -	8 / 0.008	12 / 0.012	16 / 0.016	24 / 0.024	24 / 0.024	63 / 0.063 147 / 0.147	
Subtotal: Recurring		- / 7.155	- / 0.715	- / -	- / 0.448	- / -	- / 0.448	- / 0.672	- / 0.912	- / 1.368	- / 1.392	- / 3.601 - / 16.263	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 1.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.730	
Subtotal: Non-Recurring		- / 1.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.730	
B Kits													
Recurring													
2.1.1) EA-18G Hardback (ALQ-99) - Organic		83 / 16.177	14 / 2.999	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	97 / 19.176	
2.1.2) ECP 6441 - Removal/Replacement of EA-18G ALR-67v3 - Organic		38 / 1.251	122 / 2.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 4.101	
2.1.3) ECP 6464 - RFBU - Organic		- / -	- / -	77 / 3.850	77 / 3.927	- / -	77 / 3.927	- / -	- / -	- / -	- / -	154 / 7.777	
2.1.4) ECP 6482 ASE - (ALQ-218 Modifications (WRAs)) - NonOrganic ⁽⁶⁰⁾		- / -	- / -	- / -	8 / 11.520	- / -	8 / 11.520	12 / 17.591	16 / 23.878	24 / 36.166	24 / 36.529	63 / 96.845 147 / 222.529	
2.1.5) ECP 6482 ASE - (ALQ-218 Modifications (AEA/ GBP)) - NonOrganic		5 / 5.000	- / -	- / -	8 / 2.880	- / -	8 / 2.880	12 / 4.398	16 / 5.978	24 / 9.066	24 / 9.163	58 / 22.378 147 / 58.863	
2.1.6) EA-18G SCS - Organic ⁽⁶¹⁾		- / 2.832	- / 8.677	- / 3.690	- / 7.035	- / -	- / 7.035	- / 30.456	- / 41.667	- / 36.100	- / 37.300	- / 15.000 - / 182.757	
2.1.7) B-Kits Archive - Organic		- / 52.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 52.933	
Subtotal: Recurring		- / 78.193	- / 14.526	- / 7.540	- / 25.362	- / -	- / 25.362	- / 52.445	- / 71.523	- / 81.332	- / 82.992	- / 134.223 - / 548.136	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 5.797	- / 8.297	- / 8.645	- / 4.538	- / -	- / 4.538	- / 2.240	- / 2.300	- / -	- / -	- / 31.817	
Subtotal: Non-Recurring		- / 5.797	- / 8.297	- / 8.645	- / 4.538	- / -	- / 4.538	- / 2.240	- / 2.300	- / -	- / -	- / 0.000 - / 31.817	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: EA-18G				Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT					Related RDT&E PEs:				

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: EA-18G Unique OSIP (011-10)</i>	287 / 92.875	149 / 23.538	77 / 16.185	109 / 30.348	- / -	109 / 30.348	48 / 55.357	64 / 74.735	96 / 82.700	96 / 84.384	245 / 137.824	1,171 / 597.946
<i>Subtotal: Procurement, All Modification Items</i>	- / 92.875	- / 23.538	- / 16.185	- / 30.348	- / -	- / 30.348	- / 55.357	- / 74.735	- / 82.700	- / 84.384	- / 137.824	- / 597.946
Support (All Modification Items)												
3.2) Data	- / 2.469	- / 1.944	- / 1.851	- / 1.898	- / -	- / 1.898	- / 1.505	- / 1.520	- / 1.530	- / 0.230	- / 0.525	- / 13.472
3.3) Training Equipment	- / -	- / 0.172	- / 0.750	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.500	- / 0.200	- / 0.200	- / 0.200	- / 3.022
3.4) Support Equipment	- / 1.333	- / 0.772	- / 5.167	- / 5.363	- / -	- / 5.363	- / 5.385	- / 6.023	- / 5.625	- / 5.065	- / 5.550	- / 40.283
3.5) ILS	- / 2.540	- / 1.750	- / 2.405	- / 2.450	- / -	- / 2.450	- / 2.491	- / 2.530	- / 2.575	- / 2.620	- / 7.630	- / 26.991
3.6) Other Support ⁽⁶²⁾	- / 5.116	- / 2.901	- / 3.460	- / 5.450	- / -	- / 5.450	- / 5.510	- / 5.594	- / 5.680	- / 5.712	- / 5.750	- / 45.173
<i>Subtotal: Support</i>	- / 11.458	- / 7.539	- / 13.633	- / 15.661	- / -	- / 15.661	- / 15.391	- / 16.167	- / 15.610	- / 13.827	- / 19.655	- / 128.941
Installation												
Modification Item 1 of 1: EA-18G Unique OSIP (011-10)	- / 0.248	- / 0.000	- / 4.986	- / 0.896	- / 0.000	- / 0.896	- / 2.778	- / 3.888	- / 5.248	- / 7.896	- / 28.388	- / 54.328
<i>Subtotal: Installation</i>	- / 0.248	- / -	- / 4.986	- / 0.896	- / -	- / 0.896	- / 2.778	- / 3.888	- / 5.248	- / 7.896	- / 28.388	- / 54.328
Total												
Total Cost (Procurement + Support + Installation)	104.581	31.077	34.804	46.905	0.000	46.905	73.526	94.790	103.558	106.107	185.867	781.215

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: EA-18G Unique OSIP (011-10)							
Manufacturer Information							
Manufacturer Name: Northrop Grumman - ECP 6482 GBP				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Delivery Dates			Sep 2019	Sep 2020	Sep 2021	Sep 2022	Sep 2023
Manufacturer Name: Boeing - ECP 6444				Manufacturer Location: St. Louis			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Sep 2017		Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Delivery Dates	May 2018		Sep 2019	Sep 2020	Sep 2021	Sep 2022	Sep 2023
Manufacturer Name: Boeing - ECP 6312 EA-18G AESA Blanking Wire Group A and CCS Mid-board Group A				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 12				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP 6479 1PPS				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP 6482 - ASE (ALQ-218 Modifications)				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Delivery Dates			Sep 2019	Sep 2020	Sep 2021	Sep 2022	Sep 2023
Manufacturer Name: Northrop Grumman - ECP 6482 WRAs				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0525 / F-18 Series											Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)										
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:																					
Modification Item 1 of 1: EA-18G Unique OSIP (011-10)																																
Manufacturer Information																																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Delivery Dates										Sep 2019				Sep 2020				Sep 2021				Sep 2022				Sep 2023						
Manufacturer Name: DRS - IBS Receiver Replacement (JTTR)													Manufacturer Location: Johnstown, PA																			
Administrative Leadtime (<i>in Months</i>): 4													Production Leadtime (<i>in Months</i>): 24																			
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Contract Dates																																
Delivery Dates																																
Installation Information																																
Method of Implementation: Navy Field Modification Team:: Installation Name: ECP 6312 - EA-18G AESA Blanking Wire Group A and C																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years		1 / 0.248	- / -	- / -	1 / 0.109	0 / 0.000	1 / 0.109	2 / 0.218	- / -	- / -	- / -	- / -	4 / 0.575																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		1 / 0.248	- / -	- / -	1 / 0.109	0 / 0.000	1 / 0.109	2 / 0.218	- / -	- / -	- / -	0 / 0.000	4 / 0.575																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
Out	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: EA-18G Unique OSIP (011-10)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 6444 - EA-18G Weight Reduction Initiative																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																			
Prior Years	- / -	- / -	2 / 0.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.620																			
FY 2017	- / -	- / -	13 / 4.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	13 / 4.030																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.640	- / -	- / -	- / -	0 / 0.000	8 / 0.640																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.972	- / -	- / -	0 / 0.000	12 / 0.972																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.312	- / -	0 / 0.000	16 / 1.312																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.992	0 / 0.000	24 / 1.992																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.016	24 / 2.016																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	61 / 5.124	61 / 5.124																			
Total	- / -	- / -	15 / 4.650	- / -	- / -	- / -	8 / 0.640	12 / 0.972	16 / 1.312	24 / 1.992	85 / 7.140	160 / 16.706																			
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	7	8	-	-	-	-	2	2	2	2	3	3	3	3	4	4	4	4	6	6	6	6	85	160
Out	-	-	-	-	-	-	-	7	8	-	-	-	-	2	2	2	2	3	3	3	3	4	4	4	4	6	6	6	6	85	160
Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 6479 - One Pulse Per Second (1PPS)																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																			
Prior Years	- / -	- / -	72 / 0.336	83 / 0.387	0 / 0.000	83 / 0.387	- / -	- / -	- / -	- / -	0 / 0.000	155 / 0.723																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0525 / F-18 Series											Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)										
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:																					
Modification Item 1 of 1: EA-18G Unique OSIP (011-10)																																
Installation Information																																
Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 6479 - One Pulse Per Second (1PPS)																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																			
Total		- / -	- / -	72 / 0.336	83 / 0.387	0 / 0.000	83 / 0.387	- / -	- / -	- / -	- / -	0 / 0.000	155 / 0.723																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	24	24	24	24	24	24	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155	
Out	-	-	-	-	-	-	24	24	24	24	24	24	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155	
Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 6482 - ASE (ALQ-218 Modifications)																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																			
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.640	- / -	- / -	- / -	0 / 0.000	8 / 0.640																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.972	- / -	- / -	0 / 0.000	12 / 0.972																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.312	- / -	0 / 0.000	16 / 1.312																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.968	0 / 0.000	24 / 1.968																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.992	24 / 1.992																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 5.229	63 / 5.229																			
Total		- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.640	12 / 0.972	16 / 1.312	24 / 1.968	87 / 7.221	147 / 12.113																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	-	3	3	3	3	4	4	4	4	6	6	6	6	87	147	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	-	3	3	3	3	4	4	4	4	6	6	6	6	87	147	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: EA-18G Unique OSIP (011-10)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 6482 ASE - (ALQ-218 Modifications (WRAs))																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.640	- / -	- / -	- / -	0 / 0.000	8 / 0.640																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.972	- / -	- / -	0 / 0.000	12 / 0.972																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.312	- / -	0 / 0.000	16 / 1.312																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.968	0 / 0.000	24 / 1.968																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.992	24 / 1.992																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 5.229	63 / 5.229																			
Total	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.640	12 / 0.972	16 / 1.312	24 / 1.968	87 / 7.221	147 / 12.113																			
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	-	3	3	3	3	4	4	4	4	6	6	6	6	87	147
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	-	3	3	3	3	4	4	4	4	6	6	6	6	87	147
Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 6482 ASE - (ALQ-218 Modifications (AEA/GBP))																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	- / -	- / -	- / -	5 / 0.400	0 / 0.000	5 / 0.400	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.400																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.640	- / -	- / -	- / -	0 / 0.000	8 / 0.640																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.972	- / -	- / -	0 / 0.000	12 / 0.972																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.312	- / -	0 / 0.000	16 / 1.312																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.968	0 / 0.000	24 / 1.968																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.992	24 / 1.992																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	58 / 4.814	58 / 4.814																			

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: EA-18G Unique OSIP (011-10)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 6482 ASE - (ALQ-218 Modifications (AEA/GBP))																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
Total		- / -	- / -	- / -	5 / 0.400	0 / 0.000	5 / 0.400	8 / 0.640	12 / 0.972	16 / 1.312	24 / 1.968	82 / 6.806	147 / 12.098																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	2	3	2	2	2	2	3	3	3	3	4	4	4	4	6	6	6	6	82	147
Out	-	-	-	-	-	-	-	-	-	-	-	2	3	2	2	2	2	3	3	3	3	4	4	4	4	6	6	6	6	82	147
Method of Implementation (Organic): EA-18G Hardback (ALQ-99)																				Installation Quantity: 97											
Method of Implementation (Organic): ECP 6441 - Removal/Replacement of EA-18G ALR-67v3																				Installation Quantity: 160											
Method of Implementation (Organic): ECP 6464 - RFBU																				Installation Quantity: 154											
Footnotes: ⁽⁶⁰⁾ Funding in FY20 - FY22 includes costs for the Low Band Dedicated Receiver (LBDR) Weapons Replaceable Assembly (WRA). ⁽⁶¹⁾ Increases in FY20 - FY23 is due to addition of Advance Modes 1 and 2, Reactive Electronic Attack Measures (REAM), and Cognitive EW software upgrades. ⁽⁶²⁾ Other Support costs increase in FY19 due to ALQ-218 modification efforts.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 16 / Power and Propulsion (11-13)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	50.480	34.326	47.346	68.212	0.000	68.212	60.506	67.740	66.603	67.935	0.000	463.148
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	50.480	34.326	47.346	68.212	0.000	68.212	60.506	67.740	66.603	67.935	0.000	463.148
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	50.480	34.326	47.346	68.212	0.000	68.212	60.506	67.740	66.603	67.935	0.000	463.148
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This OSIP incorporates safety and life-limiting propulsion and power corrective actions to resolve safety and readiness concerns. Corrections to design deficiencies found during post production test and evaluation and discovered during fleet operations that have resulted in safety and reliability degradation must be corrected. The requirement to upgrade or modify the engine, system secondary power system, electrical system, and fuel systems is critical in maintaining sustainable fleet reliability, safety, and performance and is necessary to meet mission requirements. Modifications include Generator Convertor Units (GCUs), GCU Peculiar Support Equipment (PSE), electrical power and secondary power systems for service life extension.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 16 / Power and Propulsion (11-13)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G			Modification Type: Safety, Readiness, Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: Power and Propulsion (11-13)												
B Kits												
Recurring												
2.1.1) GCU Reliability Upgrade midterm (ECP 6421) Pt 3 G3/G4 - Organic	240 / 30.395	175 / 30.625	193 / 33.775	234 / 40.950	- / -	234 / 40.950	120 / 21.000	121 / 21.175	93 / 16.275	- / -	- / -	1,176 / 194.195
2.1.2) Archived ECPs - Organic	1,628 / 1.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,628 / 1.888
2.1.3) GCU Reliability Upgrade midterm Pt 3 (ECP 6421) G4 - Organic	4 / 0.810	3 / 0.795	40 / 10.600	91 / 24.115	- / -	91 / 24.115	137 / 36.305	164 / 43.460	178 / 47.170	- / -	- / -	617 / 163.255
Subtotal: Recurring	- / 33.093	- / 31.420	- / 44.375	- / 65.065	- / -	- / 65.065	- / 57.305	- / 64.635	- / 63.445	- / -	- / 0.000	- / 359.338
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic ⁽⁶³⁾	- / 0.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.813	- / -	- / 47.091
Subtotal: Non-Recurring	- / 0.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.813	- / 0.000	- / 47.091
Subtotal: Power and Propulsion (11-13)	1,872 / 33.371	178 / 31.420	233 / 44.375	325 / 65.065	- / -	325 / 65.065	257 / 57.305	285 / 64.635	271 / 63.445	- / 46.813	- / -	3,421 / 406.429
Subtotal: Procurement, All Modification Items	- / 33.371	- / 31.420	- / 44.375	- / 65.065	- / -	- / 65.065	- / 57.305	- / 64.635	- / 63.445	- / 46.813	- / 0.000	- / 406.429
Support (All Modification Items)												
3.2) Data	- / 0.002	- / -	- / 0.061	- / 0.159	- / -	- / 0.159	- / 0.247	- / 0.097	- / 0.097	- / -	- / -	- / 0.663
3.3) Training Equipment	- / 0.119	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.119
3.4) Support Equipment ⁽⁶⁴⁾	- / 9.532	- / 0.106	- / 0.060	- / 0.087	- / -	- / 0.087	- / -	- / -	- / -	- / 18.000	- / -	- / 27.785
3.5) ILS	- / 0.641	- / 0.507	- / 0.516	- / 0.525	- / -	- / 0.525	- / 0.535	- / 0.545	- / 0.554	- / 0.565	- / -	- / 4.388
3.6) Other Support	- / 6.815	- / 2.293	- / 2.334	- / 2.376	- / -	- / 2.376	- / 2.419	- / 2.463	- / 2.507	- / 2.557	- / -	- / 23.764
Subtotal: Support	- / 17.109	- / 2.906	- / 2.971	- / 3.147	- / -	- / 3.147	- / 3.201	- / 3.105	- / 3.158	- / 21.122	- / 0.000	- / 56.719
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	50.480	34.326	47.346	68.212	0.000	68.212	60.506	67.740	66.603	67.935	0.000	463.148

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 16 / Power and Propulsion (11-13)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Power and Propulsion (11-13)		
Footnotes: ⁽⁶³⁾ NRE funding in FY23 is for engineering efforts for ECP 6421 G5. ⁽⁶⁴⁾ Support equipment increases in FY23 for depot stand up of ECP 6421 G4.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 17 / Infrared Search and Track (IRST) (04-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	154.888	2.478	3.655	86.595	0.000	86.595	88.435	181.810	211.698	177.619	448.004	1,355.182
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	154.888	2.478	3.655	86.595	0.000	86.595	88.435	181.810	211.698	177.619	448.004	1,355.182
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	154.888	2.478	3.655	86.595	0.000	86.595	88.435	181.810	211.698	177.619	448.004	1,355.182
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Infrared Search and Track (IRST) will provide the F/A-18E/F (Lot 26 and up) with an Alternative Fire Control System in a high electronic attack/radar denied environment. IRST is an evolutionary program using a block approach. This Operational, Safety and Improvement Program (OSIP) is used to procure Block I IRST systems [Low Rate Initial Production (LRIP) lots 1 and 2] as well as Block II Engineering Change Proposal (ECP) modifications and incorporation including retrofit and forward fit [LRIP lots 3 through 5 and FRP]. Block II modifications include changes to the Infrared Receiver (IRR) and processor and any subsystem that supports the IRR or processor. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: IRST development began in FY2008. IRST Block I Milestone B occurred on 17 June 2011 and the Acquisition Decision Memorandum was signed 12 July 2011. Block I Milestone C occurred on 02 December 2014 and the Acquisition Decision Memorandum (ADM) was signed 24 March 2015. IRST was reclassified as an Acquisition Category IC Major Defense Acquisition Program (P510) on 5 November 2016. The ACAT IC APB was signed 13 February 2017. The Full Rate Production milestone decision review is scheduled for 3rd Quarter FY 2021 with Initial Operational Capability scheduled for 4th Quarter FY 2021.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 17 / Infrared Search and Track (IRST) (04-14)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18 E/F				Modification Type: CAPABILITY IMPROVEMENTS				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Infrared Search and Track (IRST) (04-14)													
B Kits													
Recurring													
2.1.1) IRST B-kits (Block I) - Organic ⁽⁶⁵⁾	18 / 135.411	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 135.411	
2.1.2) IRST B-kits (Block II) - Organic	- / -	- / -	- / -	6 / 63.832	- / -	6 / 63.832	12 / 69.713	25 / 95.761	40 / 144.066	40 / 126.290	29 / 89.850	152 / 589.512	
2.1.3) IRST B-Kits (Block I to Block II) - Organic ⁽⁶⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 45.699	- / -	- / -	3 / 5.680	18 / 51.379	
Subtotal: Recurring	- / 135.411	- / -	- / -	- / 63.832	- / -	- / 63.832	- / 69.713	- / 141.460	- / 144.066	- / 126.290	- / 95.530	- / 776.302	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽⁶⁷⁾	- / 12.142	- / 1.341	- / 0.850	- / 15.430	- / -	- / 15.430	- / 9.513	- / 28.005	- / 18.144	- / 26.755	- / 205.462	- / 317.642	
Subtotal: Non-Recurring	- / 12.142	- / 1.341	- / 0.850	- / 15.430	- / -	- / 15.430	- / 9.513	- / 28.005	- / 18.144	- / 26.755	- / 205.462	- / 317.642	
Subtotal: Infrared Search and Track (IRST) (04-14)	18 / 147.553	- / 1.341	- / 0.850	6 / 79.262	- / -	6 / 79.262	12 / 79.226	40 / 169.465	40 / 162.210	40 / 153.045	32 / 300.992	188 / 1,093.944	
Subtotal: Procurement, All Modification Items	- / 147.553	- / 1.341	- / 0.850	- / 79.262	- / -	- / 79.262	- / 79.226	- / 169.465	- / 162.210	- / 153.045	- / 300.992	- / 1,093.944	
Support (All Modification Items)													
3.2) Data	- / 0.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.008	
3.4) Support Equipment ⁽⁶⁸⁾	- / 0.295	- / 0.159	- / 1.219	- / -	- / -	- / -	- / 1.826	- / 4.815	- / 41.807	- / 16.740	- / 139.020	- / 205.881	
3.5) ILS	- / 1.876	- / 0.431	- / 0.444	- / 0.937	- / -	- / 0.937	- / 0.956	- / 0.975	- / 0.994	- / 1.014	- / 1.035	- / 8.662	
3.6) Other Support	- / 5.156	- / 0.547	- / 1.142	- / 6.396	- / -	- / 6.396	- / 6.427	- / 6.555	- / 6.687	- / 6.820	- / 6.957	- / 46.687	
Subtotal: Support	- / 7.335	- / 1.137	- / 2.805	- / 7.333	- / -	- / 7.333	- / 9.209	- / 12.345	- / 49.488	- / 24.574	- / 147.012	- / 261.238	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	154.888	2.478	3.655	86.595	0.000	86.595	88.435	181.810	211.698	177.619	448.004	1,355.182	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 17 / Infrared Search and Track (IRST) (04-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Infrared Search and Track (IRST) (04-14)		
Footnotes: ⁽⁶⁵⁾ IRST kits are O-level install items and have no related install cost/schedule. ⁽⁶⁶⁾ Quantity of 18 "Block I to Block II" kits will convert Block I kits to Block II kits. ⁽⁶⁷⁾ Installation Equipment N/R increases in FY19 due to NRE required for ramp up of Block II program (C.E. 2.1.2). Funding also increases in FY21 due to NRE required for ramp up of Block I retrofit security enhancements (Block I to Block II, C.E. 2.1.3). ⁽⁶⁸⁾ Support Equipment increases in FY22 and FY23 for I-Level stand up.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 18 / Automated Information Systems (AIS) (OSIP 018-14)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	94.629	32.042	44.189	54.651	0.000	54.651	53.976	54.754	53.837	54.913	106.468	549.459
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	94.629	32.042	44.189	54.651	0.000	54.651	53.976	54.754	53.837	54.913	106.468	549.459
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	94.629	32.042	44.189	54.651	0.000	54.651	53.976	54.754	53.837	54.913	106.468	549.459
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational, Safety and Improvement Program (OSIP) will cover F/A-18 A-D, E/F and EA-18G Automated Maintenance Environment (AME), which includes initial procurement of software licenses, data rights, and technical publication updates including Integrated Electronic Technical Manuals (IETMs). This OSIP also covers Information Assurance (IA) and Weapon engineering, Integrated, Naval Aviation Technical Information Product (NATIP) and Naval Air Training and Operating Procedures Standardization (NATOPS) (WINN). NATIP and NATOPS are permanent flight clearances. This OSIP is required to provide updated/modified data for F/A-18 and EA-18G aircrew (user's manuals, pocket guides, safety-of-flight envelopes and tactical /non-tactical system employment envelopes) associated with approved aircraft engineering changes that update/enhance aircraft operational capabilities. WINN tactical employment data developed and distributed via NATIP are mandated by Office of the Chief of Naval Operations Instructions (OPNAVINST) 3510.15. WINN non-tactical employment data developed and distributed via NATOPS are mandated by OPNAVINST 3710. This OSIP will also provide Information Assurance (IA) compliance for F/A-18 A-F and EA-18G systems by updating certification and accreditation (C&A) documentation, and future IA mandates in order to maintain the Authority to Operate (ATO) for all required C&A approval. Modifications incorporated for AME integration are authorized via associated SCS software builds, SPAWAR Program Of Record (POR) Acquisition Decision Memorandums, and Engineering Change Proposals (ECPs).												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: F/A-18A-D, E/F and G NATIP: Classified and unclassified product development was completed in FY15 for F/A-18A-D and F/A-18E/F, and end of FY17/18 for EA-18G. Updates to published classified/unclassified chapters are increasing as additional chapters are fielded and new SCS developments (27C, H14, H16, H18) mature. F/A-18 and EA-18G NATOPS: Development is complete and updates are ongoing.												
The C&A status of F/A-18 AME (FAME) 1.0 is as follows: FAME 1.0 has been granted an ATO with both the United States Navy (USN) and the United States Marine Corps (USMC) until 1 July 2019.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 18 / Automated Information Systems (AIS) (OSIP 018-14)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Automated Information Systems (AIS) (OSIP 018-14)													
B Kits													
Recurring													
2.1.1) Automated Maintenance Environment (AME) software mod - Organic	- / 16.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.642	
<i>Subtotal: Recurring</i>	- / 16.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 16.642	
<i>Subtotal: Automated Information Systems (AIS) (OSIP 018-14)</i>	- / 16.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.642	
<i>Subtotal: Procurement, All Modification Items</i>	- / 16.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 16.642	
Support (All Modification Items)													
3.2) Software ⁽⁶⁹⁾	- / 40.750	- / 18.013	- / 29.908	- / 40.113	- / -	- / 40.113	- / 39.176	- / 39.819	- / 38.634	- / 39.571	- / 28.179	- / 314.163	
3.3) Data ⁽⁷⁰⁾	- / 20.305	- / 6.941	- / 7.066	- / 7.193	- / -	- / 7.193	- / 7.323	- / 7.323	- / 7.454	- / 7.454	- / 43.282	- / 114.341	
3.6) ILS	- / 2.731	- / 1.403	- / 1.428	- / 1.454	- / -	- / 1.454	- / 1.480	- / 1.507	- / 1.534	- / 1.561	- / 7.806	- / 20.904	
3.7) Other Support	- / 14.201	- / 5.685	- / 5.787	- / 5.891	- / -	- / 5.891	- / 5.997	- / 6.105	- / 6.215	- / 6.327	- / 27.201	- / 83.409	
<i>Subtotal: Support</i>	- / 77.987	- / 32.042	- / 44.189	- / 54.651	- / -	- / 54.651	- / 53.976	- / 54.754	- / 53.837	- / 54.913	- / 106.468	- / 532.817	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	94.629	32.042	44.189	54.651	0.000	54.651	53.976	54.754	53.837	54.913	106.468	549.459	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 18 / Automated Information Systems (AIS) (OSIP 018-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Automated Information Systems (AIS) (OSIP 018-14)		
Footnotes: ⁽⁶⁹⁾ (A) Funding for software was realigned from the Data cost element to a new Software cost element for accuracy. (B) Software funding is for the AME system, a suite of integrated software applications in support of operational level maintenance for F/A-18A-F and EA-18G. The modifications to the software are driven by the ADM from the Naval Tactical Command Support Systems program Optimized Organization Maintenance Activity (OOMA) release 831-01.05.11 policy/guidance directing F/A-18 and EA-18G to modify F/A-18 AME software release that integrates with OOMA/Naval Aviation Logistics Command Management Information System (NALCOMIS) software. (C) Funding varies each year due to the PMA265 re-accreditation process which is required to receive certification for ATO for F/A-18 A-F and EA-18G aircraft. ⁽⁷⁰⁾ Funding for Data cost element is required due to the transition of technical publication data and IETMs from several OSIPs into this OSIP. Technical publications data and IETMS modifications driven by AME and SCS software upgrades will be reflected in this OSIP. ECP driven technical data changes will be annotated per specific OSIPs.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	34.766	45.252	87.424	137.254	0.000	137.254	137.910	210.756	210.836	296.372	3,134.079	4,294.649
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	34.766	45.252	87.424	137.254	0.000	137.254	137.910	210.756	210.836	296.372	3,134.079	4,294.649
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	34.766	45.252	87.424	137.254	0.000	137.254	137.910	210.756	210.836	296.372	3,134.079	4,294.649
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Incorporation of structural and sub-systems enhancements and changes are required to extend the F/A-18E/F service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY2043. Enhancements and changes include resolution of discrepancies identified as a result of Service Life Assessment Program (SLAP) analysis and in-service experience. These enhancements and changes include modifications to the entire airframe and aircraft sub-systems to extend flight hours, as well as modifications to ensure landing gear, catapult and attachment components can extend total landings. These modifications include: Block 1 Forward Fuselage, Block 2 Forward Fuselage, Inner Wing Panel (Pre-CRI), Inner Wing Panel (CRI), Outer Wing Panel (Pre-CRI), Outer Wing Panel (CRI), Center Fuselage, Aft Fuselage, Vertical Tail, Hydraulic Systems, Landing Gear Systems, Fuel Delivery Systems, Environmental Control Systems, and Mechanical Systems. The unacceptable alternative to retrofitting would be the failure to reach full fatigue life for these aircraft and to not correct the structural defects discovered on fatigue test articles. In many cases, the mission capability of the aircraft would be adversely affected in addition to its reduced service life. As a result, aircraft may be prematurely removed from useful service. SLAP analyzes the critical structural and sub-system areas to determine crack initiation. Service Life Extension Program (SLEP) will transition into a full turn-key operation to install SLEP kits to achieve the Service Life Modification (SLM). The aircraft will be inducted by the Original Equipment Manufacturer (OEM) and returned to the fleet as a fully modified aircraft with an extended service life to achieve fleet missions. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Currently all Lot 21 through 41 aircraft have service life limits established by the F/A-18 and EA-18G Service Life Bulletin without the service life management plan modifications to extended the service life. The OEMs are currently performing structures and sub-systems SLAP. As SLAP analysis is completed, "hot spots" are reviewed to determine the best approach for extending specific areas of concern. Until FY18, NRE for service life modifications were grouped into one of five series of Zonal ECPs (6465, 6466, 6467, 6468, and 6469) according to aircraft block and location. Zonal ECP NRE will continue through FY19, and subsystems ECPs beyond; but starting in FY18 will begin a transition to a holistic SLM effort based on the entire aircraft. In an effort to reduce exigent procurement lead times and resulting high out-of-reporting rates associated with traditional, disparate piece part kit procurements and installation, SLM relies on a turn-key approach utilizing the OEM to extend aircraft service life. SLM includes all material / kit and labor / installation costs to modify service life from 6,000 flight hours to 7,500 flight hours. NRE will continue until a SLEP full kit is developed and the aircraft service life will be extended to 9,000 flight hours.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18E/F and EA-18G				Modification Type: SAFETY / LIFE EXTENSION				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: F/A-18E/F and EA-18G SLEP (OSIP 020-14)													
A Kits													
Recurring													
1.1.1) ECP-6465 Block 1 Forward Fuselage - NonOrganic	4 / 0.159	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.159	
1.1.2) ECP-6469: Inner Wing Panel (Pre-CRI) - NonOrganic	2 / 7.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.435	
1.1.3) ECP-6469: Outer Wing Panel (Pre-CRI) - NonOrganic	2 / 0.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.064	
1.1.4) Service Life Modification (SLM) - Organic	- / -	- / -	3 / 15.600	7 / 37.055	- / -	7 / 37.055	20 / 105.872	29 / 173.846	31 / 176.046	39 / 268.934	517 / 2,736.791	646 / 3,514.144	
Subtotal: Recurring	- / 7.658	- / -	- / 15.600	- / 37.055	- / -	- / 37.055	- / 105.872	- / 173.846	- / 176.046	- / 268.934	- / 2,736.791	- / 3,521.802	
Non-Recurring													
1.2.1) Installation Kit N/R - Organic ⁽⁷¹⁾	- / 22.669	- / 34.859	- / 54.668	- / 82.416	- / -	- / 82.416	- / 13.982	- / 18.320	- / 16.386	- / 12.415	- / 27.801	- / 283.516	
Subtotal: Non-Recurring	- / 22.669	- / 34.859	- / 54.668	- / 82.416	- / -	- / 82.416	- / 13.982	- / 18.320	- / 16.386	- / 12.415	- / 27.801	- / 283.516	
Subtotal: F/A-18E/F and EA-18G SLEP (OSIP 020-14)	8 / 30.327	- / 34.859	3 / 70.268	7 / 119.471	- / -	7 / 119.471	20 / 119.854	29 / 192.166	31 / 192.432	39 / 281.349	517 / 2,764.592	654 / 3,805.318	
Subtotal: Procurement, All Modification Items	- / 30.327	- / 34.859	- / 70.268	- / 119.471	- / -	- / 119.471	- / 119.854	- / 192.166	- / 192.432	- / 281.349	- / 2,764.592	- / 3,805.318	
Support (All Modification Items)													
3.2) Data	- / 2.625	- / 3.183	- / 3.183	- / 0.225	- / -	- / 0.225	- / 0.229	- / 0.233	- / 0.237	- / 0.242	- / -	- / 10.157	
3.4) Support Equipment	- / -	- / 0.074	- / 1.255	- / 3.139	- / -	- / 3.139	- / 4.808	- / 5.104	- / 4.675	- / 1.047	- / -	- / 20.102	
3.5) ILS ⁽⁷²⁾	- / 1.367	- / 1.194	- / 1.216	- / 1.238	- / -	- / 1.238	- / 1.260	- / 1.283	- / 1.306	- / 1.329	- / 135.885	- / 146.078	
3.6) Other Support ⁽⁷³⁾	- / 0.447	- / 5.942	- / 11.347	- / 12.991	- / -	- / 12.991	- / 11.759	- / 11.970	- / 12.186	- / 12.405	- / 233.602	- / 312.649	
Subtotal: Support	- / 4.439	- / 10.393	- / 17.001	- / 17.593	- / -	- / 17.593	- / 18.056	- / 18.590	- / 18.404	- / 15.023	- / 369.487	- / 488.986	
Installation													
Modification Item 1 of 1: F/A-18E/F and EA-18G SLEP (OSIP 020-14)	- / 0.000	- / 0.000	- / 0.155	- / 0.190	- / 0.000	- / 0.190	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.345	
Subtotal: Installation	- / 0.000	- / -	- / 0.155	- / 0.190	- / -	- / 0.190	- / -	- / -	- / -	- / -	- / 0.000	- / 0.345	
Total													
Total Cost (Procurement + Support + Installation)	34.766	45.252	87.424	137.254	0.000	137.254	137.910	210.756	210.836	296.372	3,134.079	4,294.649	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)						
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:							
Modification Item 1 of 1: F/A-18E/F and EA-18G SLEP (OSIP 020-14)													
Manufacturer Information													
Manufacturer Name: Boeing - SLEP ECPs (2 year leadtime) ⁽⁷⁴⁾						Manufacturer Location: St Louis, MO							
Administrative Leadtime (in Months): 4						Production Leadtime (in Months): 20							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022							
Delivery Dates	Sep 2018	Sep 2019	Sep 2020	Sep 2021	Sep 2022	Sep 2023							
Manufacturer Name: Boeing - SLEP ECPs (1 yr leadtime)						Manufacturer Location: St Louis, MO							
Administrative Leadtime (in Months): 4						Production Leadtime (in Months): 8							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Manufacturer Name: Boeing - ECP-6465						Manufacturer Location: St Louis, MO							
Administrative Leadtime (in Months): 4						Production Leadtime (in Months): 20							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Manufacturer Name: TBD						Manufacturer Location: TBD							
Administrative Leadtime (in Months): 0						Production Leadtime (in Months): 0							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Installation Information													
Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6465 Block 1 Forward Fuselage													
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
	Prior Years	- / -	- / -	4 / 0.155	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.155
	FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Modification Item 1 of 1: F/A-18E/F and EA-18G SLEP (OSIP 020-14)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6465 Block 1 Forward Fuselage

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 0.155	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.155

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Out	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4

Method of Implementation: Navy Drive-In Modification:: Installation Name: SLEP Installs (1 year leadtime)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	4 / 0.190	0 / 0.000	4 / 0.190	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.190
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	4 / 0.190	0 / 0.000	4 / 0.190	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.190

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Exhibit P-3a, Individual Modification: PB 2019 Navy																				Date: February 2018																			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: F/A-18E/F and EA-18G SLEP (OSIP 020-14)																																							
Installation Information																																							
Method of Implementation: Navy Drive-In Modification:: Installation Name: SLEP Installs (1 year leadtime)																																							
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4								
Out	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4								
Method of Implementation (Organic): Service Life Modification (SLM)																														Installation Quantity: 646									

Footnotes:

- ⁽⁷¹⁾ NRE is required in future years due to development of multiple ECPs as locations of the aircraft are determined to need extension. Each structural zone ECP will require multiple revisions for multiple requirements. Each of these efforts will require NRE. FY18-FY19 SLM NRE increase cost due to two site stand up and FY21 NRE increase due to third site stand up
- ⁽⁷²⁾ ILS funding increases in FY18 due to ramp up of SLEP efforts.
- ⁽⁷³⁾ Other Support funding increases in FY18 due to ramp up of SLEP efforts.
- ⁽⁷⁴⁾ Validation/verification kits have a longer lead time than recurring kits with a two year leadtime.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 20 / Priority Stores Integration (OSIP 10-16)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8.567	17.293	10.536	13.550	0.000	13.550	13.374	15.942	15.676	15.989	26.958	137.885
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8.567	17.293	10.536	13.550	0.000	13.550	13.374	15.942	15.676	15.989	26.958	137.885
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8.567	17.293	10.536	13.550	0.000	13.550	13.374	15.942	15.676	15.989	26.958	137.885
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The purpose of this Operational Safety Improvement Program (OSIP) is to facilitate aircraft capability upgrades to carry priority stores for F/A-18A-F and EA-18G aircraft. Priority Stores Integration contains fleet required air to air and air to ground weapon configurations upgrades to support fleet requirements provided by OPNAV N98 and Commander, Naval Air Forces. This OSIP will provide for F/A-18A-F and EA-18G aircraft weapon systems software and aeromechanical hardware upgrades needed during fleet operations to ensure that mission readiness and safety of flight regimes are maintained. It will also allow for weapon capability expansion through engineering, logistics, obsolescence updates and verification and validation of incorporated engineering changes. Specifically this will provide mission flexibility by updating System Configuration Set (SCS) software in response to weapon software upgrades and weapon carriage and release characteristics. Hardware and software modifications may be incorporated for the following efforts: Universal Armament Interface (UAI), Air Intercept Missile (AIM)-7, AIM-120, AIM-9, Joint Standoff Weapon (JSOW), Joint Direct Attack Munition (JDAM), Laser JDAM (LJDAM), Guided Bomb Unit (GBU)-10/12/16/24, Harpoon, Standoff Land Attack Missile Extended Range (SLAM-ER), underwater time bomb mines, aerial weapon fuzes, High Speed Anti-Radiation Missile (HARM), Advanced Anti-Radiation Guided Missile (AARGM), aircraft rocket systems, Advanced Guided Missile (AGM)-65 Maverick, M61 aerial rotary cannon, ALQ-99, ALQ-218, ALE-43, Cluster Bomb Units (CBUs), aerial countermeasure flares and smoke emitters, General Purpose (GP) bombs, Laser Guided Training Rounds (LGTRs), Small Diameter Bomb (SDB)-II, the Offensive Anti Surface Warfare (OASuW), Long Range Antiship Missile (LRASM), Miniature Air Launched Decoy (MALD), Next Generation Jammer (NGJ) pod, Bomb Releasable Unit (BRU)-32, BRU-55, Launcher Ariel Unit (LAU)-127, LAU-116, LAU-115, LAU-117, LAU-118, Adapter Unit (ADU)-773, SUU-62, SUU-63, SUU-78, SUU-79 and the SUU-80. This OSIP will provide aircraft platform growth flexibility with all upgrades to existing weapons, future weapons, and weapon subsystem upgrades to F/A-18A-F and EA-18G aircraft. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Weapons are procured with Weapons Procurement, Navy (WPN) funding. Hardware and software modifications to the aircraft in order to utilize the weapons are funded with APN-5.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 20 / Priority Stores Integration (OSIP 10-16)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Priority Stores Integration (OSIP 10-16)													
A Kits													
Recurring													
1.1.1) ECP XXXB - LAU-116 - Organic	- / -	- / -	1,232 / 0.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,232 / 0.518	
1.1.2) ECP XXXC - LAU-127 - Organic	- / -	- / -	- / -	616 / 0.528	- / -	616 / 0.528	616 / 0.537	616 / 0.547	616 / 0.557	616 / 0.567	- / -	3,080 / 2.736	
1.1.3) ECP XXXD - SUU-63 - Organic	- / -	50 / 2.500	50 / 2.550	75 / 3.902	- / -	75 / 3.902	75 / 3.980	- / -	- / -	- / -	- / -	250 / 12.932	
1.1.4) ECP XXXE - SUU-79 - Organic	- / -	- / -	1,232 / 0.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,232 / 0.518	
1.1.5) ECP XXXF - SUU-80 - Organic	- / -	- / -	- / -	616 / 0.527	- / -	616 / 0.527	616 / 0.536	616 / 1.116	616 / 0.405	616 / 0.405	- / -	3,080 / 2.989	
Subtotal: Recurring	- / 0.000	- / 2.500	- / 3.586	- / 4.957	- / -	- / 4.957	- / 5.053	- / 1.663	- / 0.962	- / 0.972	- / 0.000	- / 19.693	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / 0.500	- / 0.500	- / -	- / 0.500	- / 0.500	- / 4.094	- / 5.986	- / 2.346	- / -	- / 13.926	
Subtotal: Non-Recurring	- / 0.000	- / -	- / 0.500	- / 0.500	- / -	- / 0.500	- / 0.500	- / 4.094	- / 5.986	- / 2.346	- / 0.000	- / 13.926	
B Kits													
Recurring													
2.1.1) 29C (SCS) - Organic	- / -	- / -	- / 0.235	- / 1.119	- / -	- / 1.119	- / 0.891	- / -	- / -	- / -	- / -	- / 2.245	
2.1.2) H16 (SCS) - Organic	- / 2.777	- / 4.547	- / 0.247	- / 0.887	- / -	- / 0.887	- / 0.721	- / 3.852	- / 2.269	- / 2.073	- / -	- / 17.373	
2.1.3) H18 (SCS) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.009	- / 13.355	- / 17.364	
Subtotal: Recurring	- / 2.777	- / 4.547	- / 0.482	- / 2.006	- / -	- / 2.006	- / 1.612	- / 3.852	- / 2.269	- / 6.082	- / 13.355	- / 36.982	
Subtotal: Priority Stores Integration (OSIP 10-16)	- / 2.777	50 / 7.047	2,514 / 4.568	1,307 / 7.463	- / -	1,307 / 7.463	1,307 / 7.165	1,232 / 9.609	1,232 / 9.217	1,232 / 9.400	- / 13.355	8,874 / 70.601	
Subtotal: Procurement, All Modification Items	- / 2.777	- / 7.047	- / 4.568	- / 7.463	- / -	- / 7.463	- / 7.165	- / 9.609	- / 9.217	- / 9.400	- / 13.355	- / 70.601	
Support (All Modification Items)													
3.5) ILS	- / -	- / 0.184	- / 0.188	- / 0.191	- / -	- / 0.191	- / 0.195	- / 0.199	- / 0.203	- / 0.207	- / 1.057	- / 2.424	
3.6) Other Support	- / 5.790	- / 10.062	- / 5.780	- / 5.896	- / -	- / 5.896	- / 6.014	- / 6.134	- / 6.256	- / 6.382	- / 12.546	- / 64.860	
Subtotal: Support	- / 5.790	- / 10.246	- / 5.968	- / 6.087	- / -	- / 6.087	- / 6.209	- / 6.333	- / 6.459	- / 6.589	- / 13.603	- / 67.284	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	8.567	17.293	10.536	13.550	0.000	13.550	13.374	15.942	15.676	15.989	26.958	137.885	

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Exhibit P-3a, Individual Modification: PB 2019 Navy				Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 20 / Priority Stores Integration (OSIP 10-16)	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: Priority Stores Integration (OSIP 10-16)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 21 / Physiological Episode (PE) Mitigation (OSIP 13-19)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	30.094	0.000	30.094	25.762	15.809	24.931	16.809	44.592	157.997
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	30.094	0.000	30.094	25.762	15.809	24.931	16.809	44.592	157.997
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	30.094	0.000	30.094	25.762	15.809	24.931	16.809	44.592	157.997
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational, Safety and Improvement Program (OSIP) funds modifications to mitigate aircrew Physiological Episodes (PE) in F/A-18 A-F and E/A-18G by correcting aircraft deficiencies and addressing safety and reliability issues via Engineering Change Proposals (ECPs). All aircraft systems that contribute to aircrew life support can be causal factors in physiological events. This includes the Onboard Oxygen Generating System (OBOGS) and all associated piping, valves, and monitors, the Environmental Control System (ECS) and all associated ducting, valves, and sensors, hardware and software, and aircrew alerting systems to provide cautions and warning of failures or potential hazards. Modifications to the aircraft will focus on addressing the highest likelihood causal factors for PEs. This includes the ECS system and cockpit structural improvements to improve the stability and control of cabin pressurization. It also includes OBOGS hardware and software improvements, including all aircraft and aircrew gear used to deliver and monitor breathing gas to ensure aircrew are receiving the optimized levels of oxygen during all regimes of flight, to include the possibility of a new MILSTAN 3050 compliant oxygen concentrator. This OSIP also addresses all aircrew flight gear that could affect aircrew performance and/or physiology prior to or during flight. Modifications will include Expanded Emergency Oxygen System and Automatic Backup Oxygen System (ABOS) to provide seamless delivery of oxygen to aircrew during emergency operations or systems failure; cabin altitude monitoring and alerting to warn aircrew to hazardous conditions or systems failures, including the Cabin Pressure and Monitoring Systems (CPOMS); and air quality monitoring and filtration systems to ensure adequacy and purity of aircrew breathing gas. Development Status/Major Milestones: Each change has been or will be tested prior to installation into the F-18 A-F and E/A-18G. ECPs (6416, 6477, 6478, 6488, and 6500) for PE efforts are realigned from OSIP 14-03 to OSIP 13-19 beginning in FY19.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 21 / Physiological Episode (PE) Mitigation (OSIP 13-19)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F-18 A-F and E/A-18G				Modification Type: Safety				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: Physiological Episode (PE) Mitigation (OSIP 13-19)												
A Kits												
Recurring												
1.1.1) ECP-6416 Environment Control Sys Anti-Ice Duct Bracket - NonOrganic ⁽⁷⁵⁾	190 / 0.000	- / -	- / -	77 / 0.762	- / -	77 / 0.762	78 / 0.786	- / -	- / -	- / -	- / -	345 / 1.548
1.1.2) ECP-6477 ECS Item 001 Primary Bleed Air Pressure Regulator & shutoff - NonOrganic ⁽⁷⁶⁾	1 / 0.000	- / -	- / -	47 / 1.010	- / -	47 / 1.010	200 / 4.500	156 / 3.563	156 / 3.627	253 / 4.243	- / -	813 / 16.943
1.1.3) ECP-6478 ECS Items 51 & 26 Improvements - NonOrganic ⁽⁷⁷⁾	- / -	4 / 0.000	- / -	72 / 0.889	- / -	72 / 0.889	72 / 0.905	72 / 0.911	72 / 0.921	72 / 0.937	358 / 5.026	722 / 9.589
1.1.4) ECP 6488 - Secondary Bleed air regualator & Shut Off Valve Improvement - Organic	- / -	- / -	- / -	360 / 4.100	- / -	360 / 4.100	43 / 0.677	- / -	- / -	- / -	- / -	403 / 4.777
1.1.5) ECP-6500 ECS Heater Element on Flow Valve Servo Air Supply Line - NonOrganic	- / -	- / -	- / -	148 / 6.700	- / -	148 / 6.700	50 / 2.291	50 / 2.332	50 / 2.374	52 / 2.513	- / -	350 / 16.210
1.1.6) ECP-6506 Cabin Pressure and OBOGS Monitoring System Improvements - Organic	- / -	- / -	- / -	150 / 13.200	- / -	150 / 13.200	74 / 6.607	- / -	105 / 9.541	- / -	300 / 25.303	629 / 54.651
1.1.7) ECP-XX01 / F/A-18E/F ECS Subsystem Upgrade Issues - NonOrganic	- / -	- / -	- / -	72 / 0.501	- / -	72 / 0.501	72 / 0.610	72 / 0.519	72 / 0.529	140 / 1.046	- / -	428 / 3.205
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 27.162	- / -	- / 27.162	- / 16.376	- / 7.325	- / 16.992	- / 8.739	- / 30.329	- / 106.923
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / -	- / 1.738	- / -	- / 1.738	- / -	- / -	- / -	- / -	- / -	- / 1.738
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 1.738	- / -	- / 1.738	- / -	- / -	- / -	- / -	- / 0.000	- / 1.738
Subtotal: Physiological Episode (PE) Mitigation (OSIP 13-19)	191 / 0.000	4 / 0.000	- / -	926 / 28.900	- / -	926 / 28.900	589 / 16.376	350 / 7.325	455 / 16.992	517 / 8.739	658 / 30.329	3,690 / 108.661
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 28.900	- / -	- / 28.900	- / 16.376	- / 7.325	- / 16.992	- / 8.739	- / 30.329	- / 108.661
Support (All Modification Items)												
3.5) ILS	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.600	- / 1.600
3.6) Other Support	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 1.500	- / 4.000
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.700	- / -	- / 0.700	- / 0.700	- / 0.700	- / 0.700	- / 0.700	- / 2.100	- / 5.600
Installation												
Modification Item 1 of 1: Physiological Episode (PE) Mitigation (OSIP 13-19)	- / 0.000	- / 0.000	- / 0.000	- / 0.494	- / 0.000	- / 0.494	- / 8.686	- / 7.784	- / 7.239	- / 7.370	- / 12.163	- / 43.736

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 21 / Physiological Episode (PE) Mitigation (OSIP 13-19)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F-18 A-F and E/A-18G			Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.494	- / -	- / 0.494	- / 8.686	- / 7.784	- / 7.239	- / 7.370	- / 12.163	- / 43.736
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	30.094	0.000	30.094	25.762	15.809	24.931	16.809	44.592	157.997

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 21 / Physiological Episode (PE) Mitigation (OSIP 13-19)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Physiological Episode (PE) Mitigation (OSIP 13-19)							
Manufacturer Information							
Manufacturer Name: Boeing - ECP-6500 ECS Heater Element on Flow Valve Servo Air Supply Line					Manufacturer Location: St. Louis, MO		
Administrative Leadtime (<i>in Months</i>): 3					Production Leadtime (<i>in Months</i>): 9		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates			Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: Boeing - F/A-18E/F ECS Subsystem Upgrade Issues					Manufacturer Location: St. Louis, MO		
Administrative Leadtime (<i>in Months</i>): 9					Production Leadtime (<i>in Months</i>): 16		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jun 2019	Jun 2020	Jun 2021	Jun 2022	Jun 2023
Delivery Dates			Oct 2020	Oct 2021	Oct 2022	Oct 2023	Oct 2024
Manufacturer Name: Boeing - ECP 6477					Manufacturer Location: St. Louis, MO		
Administrative Leadtime (<i>in Months</i>): 3					Production Leadtime (<i>in Months</i>): 12		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates			Dec 2019	Dec 2020	Dec 2021	Dec 2022	Dec 2023
Manufacturer Name: Boeing - ECPs 6416 Environmental Control Sys Anti-Ice Duct Bracket					Manufacturer Location: St. Louis, MO		
Administrative Leadtime (<i>in Months</i>): 12					Production Leadtime (<i>in Months</i>): 24		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Oct 2019	Oct 2020			
Delivery Dates			Oct 2021	Oct 2022			
Manufacturer Name: Boeng - ECP 6478					Manufacturer Location: St. Louis, MO		
Administrative Leadtime (<i>in Months</i>): 9					Production Leadtime (<i>in Months</i>): 15		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jun 2019	Jun 2020	Jun 2021	Jun 2022	Jun 2023
Delivery Dates			Oct 2020	Oct 2021	Oct 2022	Oct 2023	Oct 2024

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 21 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Physiological Episode (PE) Mitigation (OSIP 13-19)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6416 Environment Control Sys Anti-Ice Duct Brack

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	72 / 0.472	0 / 0.000	72 / 0.472	72 / 0.481	46 / 0.489	- / -	- / -	0 / 0.000	190 / 1.442
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 0.498	- / -	0 / 0.000	77 / 0.498
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	78 / 0.507	0 / 0.000	78 / 0.507
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	72 / 0.472	0 / 0.000	72 / 0.472	72 / 0.481	46 / 0.489	77 / 0.498	78 / 0.507	0 / 0.000	345 / 2.447

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	10	-	19	19	19	20	20	20	19	19	-	345
Out	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	10	-	19	19	19	20	20	20	19	19	-	345

Method of Implementation: Navy Drive In Modification:: Installation Name: ECP-6477 ECS Item 001 Primary Bleed Air Pressure Reg

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	1 / 0.015	0 / 0.000	1 / 0.015	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.015
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	47 / 0.705	- / -	- / -	- / -	0 / 0.000	47 / 0.705
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 3.054	- / -	- / -	0 / 0.000	200 / 3.054
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	156 / 2.424	- / -	0 / 0.000	156 / 2.424
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	156 / 2.468	0 / 0.000	156 / 2.468
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	253 / 4.075	253 / 4.075

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 21 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Physiological Episode (PE) Mitigation (OSIP 13-19)

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: ECP-6477 ECS Item 001 Primary Bleed Air Pressure Reg

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.015	0 / 0.000	1 / 0.015	47 / 0.705	200 / 3.054	156 / 2.424	156 / 2.468	253 / 4.075	813 / 12.741

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	-	-	10	10	10	17	50	50	50	50	39	39	39	39	39	39	39	39	253	813
Out	-	-	-	-	-	-	-	-	-	-	1	-	-	10	10	10	17	50	50	50	50	39	39	39	39	39	39	39	39	253	813

Method of Implementation: Navy Drive In Modification:: Installation Name: ECP-6478 ECS Items 51 & 26 Improvements

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	4 / 0.007	0 / 0.000	4 / 0.007	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.007
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.243	- / -	- / -	0 / 0.000	72 / 0.243
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.247	- / -	0 / 0.000	72 / 0.247
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.252	0 / 0.000	72 / 0.252
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.257	72 / 0.257
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.504	72 / 0.504
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	358 / 2.551	358 / 2.551
Total	- / -	- / -	- / -	4 / 0.007	0 / 0.000	4 / 0.007	- / -	72 / 0.243	72 / 0.247	72 / 0.252	502 / 3.312	722 / 4.061

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 21 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:									

Modification Item 1 of 1: Physiological Episode (PE) Mitigation (OSIP 13-19)

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: ECP-6478 ECS Items 51 & 26 Improvements

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	502	722
Out	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	502	722

Method of Implementation: Navy Drive In Modification:: Installation Name: ECP-6500 ECS Heater Element on Flow Valve Servo Air

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	148 / 7.500	- / -	- / -	- / -	0 / 0.000	148 / 7.500
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 3.818	- / -	- / -	0 / 0.000	50 / 3.818
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 3.886	- / -	0 / 0.000	50 / 3.886
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 3.956	0 / 0.000	50 / 3.956
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 4.027	52 / 4.027
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	148 / 7.500	50 / 3.818	50 / 3.886	50 / 3.956	52 / 4.027	350 / 23.187

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	37	37	12	12	13	13	12	12	13	13	12	12	13	13	52	350
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	37	37	12	12	13	13	12	12	13	13	12	12	13	13	52	350

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 21 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Physiological Episode (PE) Mitigation (OSIP 13-19)

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: ECP-XX01 / F/A-18E/F ECS Subsystem Upgrade Issues

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.180	- / -	- / -	0 / 0.000	72 / 0.180
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.184	- / -	0 / 0.000	72 / 0.184
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.187	0 / 0.000	72 / 0.187
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.190	72 / 0.190
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 0.559	140 / 0.559
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.180	72 / 0.184	72 / 0.187	212 / 0.749	428 / 1.300

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	212	428
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	212	428

Method of Implementation (Organic): ECP 6488 - Secondary Bleed air regualator & Shut Off Valve Improvement	Installation Quantity: 403

Method of Implementation (Organic): ECP-6506 Cabin Pressure and OBOGS Monitoring System Improvements - Not Installed	Installation Quantity: 629

Footnotes:

⁽⁷⁵⁾ Quantity of 190 kits procured prior to FY17 were procured under OSIP 14-03. Funding for installs in FY19 - FY21 are realigned to OSIP 13-19 beginning in FY19.

⁽⁷⁶⁾ Quantity of one kit was procured prior to FY17 in OSIP 14-03, install is funded in FY19 under OSIP 13-19.

⁽⁷⁷⁾ Quantity of four kits procured in FY17 under OSIP 14-03 will be install in FY19 under OSIP 13-19.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 22 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	265.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	265.409
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	265.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	265.409
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	265.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	265.409
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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[illegible]

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 22 / Inactive OSIPs	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0528 / H-53 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,537.312	61.665	39.662	70.997	0.000	70.997	63.509	54.582	66.231	74.253	148.869	2,117.080
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,537.312	61.665	39.662	70.997	0.000	70.997	63.509	54.582	66.231	74.253	148.869	2,117.080
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,537.312	61.665	39.662	70.997	0.000	70.997	63.509	54.582	66.231	74.253	148.869	2,117.080
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
DESCRIPTION: This line item funds modifications to the CH-53E - 146 and MH-53E - 34 aircraft. The aircraft inventories to be modified vary by Operational, Safety, and Improvement Program, dependent on kit modification production lead-time. The CH-53E is a seven blade main rotor and a four-blade canted tail rotor helicopter powered by three T64-GE-416/416A/419 turbo shaft engines. The CH-53E aircraft are capable of both land and ship based transport of heavy equipment, supplies, and personnel. The MH-53E is similar to the CH-53E with additional capabilities for Airborne Mine Countermeasures, Vertical On-Board Delivery, and Special Missions which require longer range and more precise navigation than that of the CH-53E. The overall goal of the modifications budgeted in FY19 is increased communication and navigation, integrated mechanical diagnostics and condition based maintenance, propulsion and power, degraded visual environment mitigation, survivability and sustainment initiatives, and fleet operation and safety performance in the H-53 community. Commencing in FY19, this line item will also fund the CH-53K "King Stallion". The CH-53K is designed to address CH-53E performance degradation, fatigue life, interoperability, maintenance supportability, and other operational concerns and support Marine Air-Ground Task Force heavy-lift requirements in the 21st century joint environment, and is the only heavy-lift platform that can lift the Marine Air-Ground Task Force ashore. The CH-53K provides significant improvements in range and payload, performance, cargo handling, turn-around times, reliability and maintainability, interoperability and survivability.												
Notes:												
1. Navy active and Navy reserve: CH-53E: 140 active and 6 reserve; MH-53E: 27 active and 7 reserve aircraft comprise the H-53 fleet. Navy active and Navy reserve funds have been budgeted to provide capability to all 180 H-53 aircraft.												
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023		
Navy	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	58.869	35.043	70.272	-	70.272	62.990	53.561	64.849	73.214		
NR	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	2.796	4.619	0.725	-	0.725	0.519	1.021	1.382	1.039		
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	61.665	39.662	70.997	-	70.997	63.509	54.582	66.231	74.253		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0528 / H-53 Series			
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A									

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / INTEGRATED MECH DIAG (OSIP 007-98) (SAFETY, READINESS, AND MAINTAINABILITY)				- / 172.842	- / 5.013	- / 3.896	- / 6.196	- / 0.000	- / 6.196
P-3a	2 / NACELLES (OSIP 009-01) (MISSION/MISSION ENHANCEMENT)				- / 40.435	- / 0.848	- / 10.010	- / 8.096	- / 0.000	- / 8.096
P-3a	3 / H-53 ERIIP (OSIP 010-05) (SAFETY, READINESS AND MAINTAINABILITY)				- / 188.780	- / 2.195	- / 0.000	- / 5.000	- / 0.000	- / 5.000
P-3a	4 / H-53 A/C SUSTAINMENT (OSIP 008-06) (MISSION/ PERFORMANCE SUSTAINMENT)				- / 265.788	- / 17.417	- / 13.685	- / 25.100	- / 0.000	- / 25.100
P-3a	5 / DIRCM (OSIP 010-08) (MISSION/PERFORMANCE SUSTAINMENT)				- / 207.027	- / 0.985	- / 0.646	- / 0.052	- / 0.000	- / 0.052
P-3a	6 / H-53 AVIONICS (OSIP 031-12) (MISSION/PERFORMANCE SUSTAINMENT)				- / 28.600	- / 35.207	- / 11.425	- / 7.521	- / 0.000	- / 7.521
P-3a	7 / Correction of Deficiencies (OSIP 007-19) (Safety, Reliability, Improved Mission Capability)			390	- / 0.000	- / 0.000	- / 0.000	- / 11.010	- / 0.000	- / 11.010
P-3a	8 / CH-53K Production Upgrades (OSIP 008-19) (Mission Capability, Reliability, Safety)				- / 0.000	- / 0.000	- / 0.000	- / 8.022	- / 0.000	- / 8.022
P-3a	9 / Archived OSIPS (Various)				- / 633.840	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,537.312	- / 61.665	- / 39.662	- / 70.997	- / 0.000	- / 70.997

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / INTEGRATED MECH DIAG (OSIP 007-98) (SAFETY, READINESS, AND MAINTAINABILITY)				- / 2.315	- / 1.821	- / 1.857	- / 1.894	- / 0.000	- / 195.834
P-3a	2 / NACELLES (OSIP 009-01) (MISSION/MISSION ENHANCEMENT)				- / 0.576	- / 0.128	- / 0.000	- / 0.000	- / 0.000	- / 60.093
P-3a	3 / H-53 ERIIP (OSIP 010-05) (SAFETY, READINESS AND MAINTAINABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 195.975
P-3a	4 / H-53 A/C SUSTAINMENT (OSIP 008-06) (MISSION/ PERFORMANCE SUSTAINMENT)				- / 13.609	- / 9.283	- / 6.692	- / 7.205	- / 87.767	- / 446.546
P-3a	5 / DIRCM (OSIP 010-08) (MISSION/PERFORMANCE SUSTAINMENT)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 208.710
P-3a	6 / H-53 AVIONICS (OSIP 031-12) (MISSION/PERFORMANCE SUSTAINMENT)				- / 15.563	- / 21.943	- / 29.883	- / 28.828	- / 34.019	- / 212.989
P-3a	7 / Correction of Deficiencies (OSIP 007-19) (Safety, Reliability, Improved Mission Capability)			390	- / 19.490	- / 16.746	- / 24.713	- / 31.187	- / 24.877	- / 128.023
P-3a	8 / CH-53K Production Upgrades (OSIP 008-19) (Mission Capability, Reliability, Safety)				- / 11.956	- / 4.661	- / 3.086	- / 5.139	- / 2.206	- / 35.070
P-3a	9 / Archived OSIPS (Various)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 633.840
P-40	Total Gross/Weapon System Cost				- / 63.509	- / 54.582	- / 66.231	- / 74.253	- / 148.869	- / 2,117.080

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0528 / H-53 Series	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: N/A			
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.			
Justification: The FY2019 funding request is required for critical safety, obsolescence, avionics, readiness, and mission system modifications for the CH/MH-53E and CH-53K. Funding increase from FY2018 to FY2019 includes modifications required to provide retrofit kits for common Navy configuration. This funding mitigates the inability to meet Required Operational Capabilities (ROC)/Projected Operational Environment (POE) aircraft requirements and ensures the MH-53E community remains viable and capable to meet all fleet needs. Commencement of CH-53K modifications and funding for increased reliability and readiness efforts impacting the T64 engine and fuel control improvement program. The FY 2019 funding request was reduced by \$0.743M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.			

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 1 / INTEGRATED MECH DIAG (OSIP 007-98)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	172.842	5.013	3.896	6.196	0.000	6.196	2.315	1.821	1.857	1.894	0.000	195.834
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	172.842	5.013	3.896	6.196	0.000	6.196	2.315	1.821	1.857	1.894	0.000	195.834
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	172.842	5.013	3.896	6.196	0.000	6.196	2.315	1.821	1.857	1.894	0.000	195.834
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Integrated Mechanical Diagnostics (IMD) is a helicopter monitoring and diagnostics system that provides continuous on board monitoring and diagnostics of engine health, gearbox and drive train vibrations, oil debris, Rotor Track and Balance (RTB). Full incorporation of the IMD system capabilities will allow rapid transition from the current costly philosophies of the 70s to today's cost wise initiatives and concepts. Lessons learned from this effort were incorporated into the solicitation for the fleet wide IMD effort with CH/MH-53E aircraft designated as the lead platforms. IMD produces the aircraft interface required to implement Military Flight Operations Quality Assurance (MFOQA), a capability designed to provide hazard monitoring and mitigation. Additionally, IMDS includes support equipment for RTB, including Virtual Master Blade System (VMBS). Condition Based Maintenance (CBM) is hosted within the aircraft IMDS/Health and Usage Monitoring System (HUMS), intended to direct maintenance by predicting failures based on real-time assessment of equipment condition obtained from Integrated Mechanical Diagnostics System (IMDS) embedded sensors. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Advanced diagnostics enhancements and airframe structural life extension database interfaces are being incorporated to provide comprehensive platform operational and maintenance status awareness to the Squadron Commanders and key decision makers. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP increases \$2.300M from FY2018 to FY2019. Increase is a result of Prognostic & Diagnostic Based Management (PDBM) software implementation (version 10.0/3.0), and four additional MH-53E kits to support the four Reconstitutionalized MH-53E A/C. Notes: 1. Prior Year totals have been updated to reflect corrected quantities and dollar values that were archived since PB18 budget submission. 2. Cost Element 1.1.1 MH-53E Kits - Four additional kits are being procured in FY19 to support the four Reconstitutionalized MH-53E A/C.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 1 / INTEGRATED MECH DIAG (OSIP 007-98)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total				Modification Type: SAFETY, READINESS, AND MAINTAINABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: INTEGRATED MECH DIAG (OSIP 007-98)													
A Kits													
Recurring													
1.1.1) MH-53E Kits (A-kits) - NonOrganic ⁽¹⁾	29 / 9.995	- / -	- / -	4 / 1.400	- / -	4 / 1.400	- / -	- / -	- / -	- / -	- / -	33 / 11.395	
1.1.2) Archived A Kits OSIP 007-98 - Organic	159 / 51.740	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	159 / 51.740	
1.1.3) Installation Cost - Prior Year - Organic	- / 13.220	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.220	
Subtotal: Recurring	- / 74.955	- / -	- / -	- / 1.400	- / -	- / 1.400	- / -	- / -	- / -	- / -	- / 0.000	- / 76.355	
B Kits													
Recurring													
2.1.1) CBM Installation Equipment - Organic ⁽²⁾	- / 9.359	- / 2.828	- / 1.843	- / 3.502	- / -	- / 3.502	- / 1.051	- / 0.850	- / 0.867	- / 0.884	- / -	- / 21.184	
2.1.2) CBM Installation Equipment - Reserve - Organic	- / 1.629	- / 0.221	- / 0.077	- / 0.146	- / -	- / 0.146	- / 0.044	- / 0.034	- / 0.035	- / 0.035	- / -	- / 2.221	
2.1.3) Archived B Kits - Organic	31 / 2.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 2.448	
Subtotal: Recurring	- / 13.436	- / 3.049	- / 1.920	- / 3.648	- / -	- / 3.648	- / 1.095	- / 0.884	- / 0.902	- / 0.919	- / 0.000	- / 25.853	
Subtotal: INTEGRATED MECH DIAG (OSIP 007-98)	219 / 88.391	- / 3.049	- / 1.920	4 / 5.048	- / -	4 / 5.048	- / 1.095	- / 0.884	- / 0.902	- / 0.919	- / -	223 / 102.208	
Subtotal: Procurement, All Modification Items	- / 88.391	- / 3.049	- / 1.920	- / 5.048	- / -	- / 5.048	- / 1.095	- / 0.884	- / 0.902	- / 0.919	- / 0.000	- / 102.208	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 0.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.217	
3.2) Data	- / 1.644	- / 0.241	- / 0.242	- / 0.021	- / -	- / 0.021	- / 0.020	- / 0.200	- / 0.204	- / 0.208	- / -	- / 2.780	
3.3) Data - Reserve	- / 0.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.143	
3.4) Software	- / 6.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.591	
3.5) Training Equipment	2 / 0.620	- / 0.034	- / 0.185	- / 0.008	- / -	- / 0.008	- / 0.020	- / 0.150	- / 0.153	- / 0.156	- / -	2 / 1.326	
3.6) Training Equipment - Reserve	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	
3.7) Support Equipment	- / 2.901	- / 0.011	- / 0.011	- / 0.005	- / -	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / 2.928	
3.8) Condition Based Maint (CBM)	- / 2.922	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.922	
3.9) ILS	- / 4.652	- / 0.292	- / 0.261	- / 0.123	- / -	- / 0.123	- / 0.115	- / 0.100	- / 0.102	- / 0.104	- / -	- / 5.749	
3.10) ILS - Reserve	- / 0.346	- / 0.012	- / 0.011	- / 0.005	- / -	- / 0.005	- / 0.005	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.394	
3.11) Other Support - Reserve	- / 2.196	- / 0.052	- / 0.051	- / 0.039	- / -	- / 0.039	- / 0.028	- / 0.020	- / 0.020	- / 0.021	- / -	- / 2.427	
3.12) Other Support	- / 58.423	- / 1.235	- / 1.215	- / 0.947	- / -	- / 0.947	- / 0.672	- / 0.462	- / 0.471	- / 0.481	- / -	- / 63.906	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 1 / INTEGRATED MECH DIAG (OSIP 007-98)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total					Modification Type: SAFETY, READINESS, AND MAINTAINABILITY					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Support</i>	- / 80.705	- / 1.877	- / 1.976	- / 1.148	- / -	- / 1.148	- / 0.860	- / 0.937	- / 0.955	- / 0.975	- / 0.000	- / 89.433	
Installation													
<i>Modification Item 1 of 1:</i> INTEGRATED MECH DIAG (OSIP 007-98)	- / 3.746	- / 0.087	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.360	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 4.193	
<i>Subtotal: Installation</i>	- / 3.746	- / 0.087	- / -	- / -	- / -	- / -	- / 0.360	- / -	- / -	- / -	- / 0.000	- / 4.193	
Total													
Total Cost (Procurement + Support + Installation)	172.842	5.013	3.896	6.196	0.000	6.196	2.315	1.821	1.857	1.894	0.000	195.834	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 1 / INTEGRATED MECH DIAG (OSIP 007-98)				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:				
Modification Item 1 of 1: INTEGRATED MECH DIAG (OSIP 007-98)												
Manufacturer Information												
Manufacturer Name: Goodrich-CH						Manufacturer Location: Vergennes, VT						
Administrative Leadtime (in Months): 11						Production Leadtime (in Months): 4						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: Goodrich-MH						Manufacturer Location: Vergennes, VT						
Administrative Leadtime (in Months): 6						Production Leadtime (in Months): 7						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Mar 2019									
Delivery Dates			Oct 2019									
Installation Information												
Method of Implementation: [none specified]:: Installation Name: MH-53E Kits (A-kits)												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	27 / 3.746	1 / 0.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	28 / 3.833
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.360	- / -	- / -	- / -	0 / 0.000	4 / 0.360
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	27 / 3.746	1 / 0.087	- / -	- / -	- / -	- / -	4 / 0.360	- / -	- / -	- / -	0 / 0.000	32 / 4.193

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Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0528 / H-53 Series										Modification Number / Title: 1 / INTEGRATED MECH DIAG (OSIP 007-98)											
ID Code (A=Service Ready, B=Not Service Ready) :														MDAP/MAIS Code:																	
Modification Item 1 of 1: INTEGRATED MECH DIAG (OSIP 007-98)																															
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: MH-53E Kits (A-kits)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	27	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Out	27	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Method of Implementation (Organic): Archived A Kits OSIP 007-98 - Not Installed																						Installation Quantity: 159									
Method of Implementation (Organic): Archived B Kits - Not Installed																						Installation Quantity: 31									
Footnotes: ⁽¹⁾ Cost Element 1.1.3 MH-53E Kits - of the 31 procured, 2 installed kits (OCO) have been archived, leaving 29 Kits - only 28 of the 29 are installing due to mishap. Included in the remaining 28 installs is 1 trainer kit (FY13). ⁽²⁾ Cost Element 2.1.1 CBM contract award occurs in FY19 causing increase in funding.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 2 / NACELLES (OSIP 009-01)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	40.435	0.848	10.010	8.096	0.000	8.096	0.576	0.128	0.000	0.000	0.000	60.093
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	40.435	0.848	10.010	8.096	0.000	8.096	0.576	0.128	0.000	0.000	0.000	60.093
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	40.435	0.848	10.010	8.096	0.000	8.096	0.576	0.128	0.000	0.000	0.000	60.093
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The CH/MH-53E Number 1 & Number 3 engine Nacelles are a safety risk due to Things Falling Off Aircraft (TFOA). TFOA incidents risk damage to the aircraft, threaten aircrew safety, and could potentially impact personnel and/or property on the ground. To date, 84 TFOA events have occurred and of the 84, 10 have impacted the tail rotor. New CH/MH-53E Nacelles incorporates improved material properties, design and positive locking/latching mechanisms to prevent TFOA. The procurement improves fleet safety and readiness. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP decreases \$1.914M from FY2018 to FY2019. FY2019 funding is required to complete the program's last procurement of CH/MH-53E Nacelles to support fleet safety and readiness. Notes: 1. Due to increasing complexity of the Nacelles install, installs will be performed by contractor field mod team. Prior year installs were organic.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 2 / NACELLES (OSIP 009-01)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E(149), MH-53E(28), 177 TOTAL					Modification Type: MISSION/MISSION ENHANCEMENT					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: NACELLES (OSIP 009-01)													
A Kits													
Recurring													
1.1.1) MH-53E Backbone A Kits - Organic	- / -	17 / 0.170	9 / 0.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.260	
1.1.2) MH-53E Backbone A Kits - Reserve - Organic	- / -	1 / 0.010	1 / 0.010	2 / 0.020	- / -	2 / 0.020	- / -	- / -	- / -	- / -	- / -	4 / 0.040	
1.1.3) CH-53E Backbone A Kits - Organic	48 / 0.551	16 / 0.160	54 / 0.540	22 / 0.220	- / -	22 / 0.220	- / -	- / -	- / -	- / -	- / -	140 / 1.471	
1.1.4) CH-53E Backbone A Kits - Reserve - Organic	- / -	- / -	6 / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.060	
1.1.5) MH-53E Kit - NonOrganic	21 / 5.138	- / -	4 / 0.869	1 / 0.217	- / -	1 / 0.217	- / -	- / -	- / -	- / -	- / -	26 / 6.224	
1.1.6) MH-53E Kits - Reserve - NonOrganic	2 / 0.497	- / -	2 / 0.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.932	
1.1.7) CH-53E KITS (Nacelles) - NonOrganic ⁽³⁾	85 / 16.214	- / -	26 / 5.650	29 / 6.302	- / -	29 / 6.302	- / -	- / -	- / -	- / -	- / -	140 / 28.166	
1.1.8) CH-53E KITS - (Nacelles) Reserve - NonOrganic	- / -	- / -	4 / 0.869	2 / 0.435	- / -	2 / 0.435	- / -	- / -	- / -	- / -	- / -	6 / 1.304	
1.1.9) Archived A Kits OSIP 09-01 - Organic	46 / 8.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 8.446	
Subtotal: Recurring	- / 30.846	- / 0.340	- / 8.523	- / 7.194	- / -	- / 7.194	- / -	- / -	- / -	- / -	- / 0.000	- / 46.903	
B Kits													
Non-Recurring													
2.1.1) Non-Recurring - Organic	- / 0.407	- / 0.226	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.633	
Subtotal: Non-Recurring	- / 0.407	- / 0.226	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.633	
Subtotal: NACELLES (OSIP 009-01)	202 / 31.253	34 / 0.566	106 / 8.523	56 / 7.194	- / -	56 / 7.194	- / -	- / -	- / -	- / -	- / -	398 / 47.536	
Subtotal: Procurement, All Modification Items	- / 31.253	- / 0.566	- / 8.523	- / 7.194	- / -	- / 7.194	- / -	- / -	- / -	- / -	- / 0.000	- / 47.536	
Support (All Modification Items)													
3.2) Data	- / 0.155	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.155	
3.5) ILS	- / 0.325	- / 0.063	- / 0.060	- / 0.038	- / -	- / 0.038	- / 0.038	- / 0.038	- / -	- / -	- / -	- / 0.562	
3.6) ILS - Reserve	- / 0.088	- / 0.004	- / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.096	
3.7) Other Support	- / 8.461	- / 0.206	- / 0.170	- / 0.090	- / -	- / 0.090	- / 0.090	- / 0.090	- / -	- / -	- / -	- / 9.107	
3.8) Other Support - Reserve	- / 0.153	- / 0.009	- / 0.007	- / 0.004	- / -	- / 0.004	- / -	- / -	- / -	- / -	- / -	- / 0.173	
Subtotal: Support	- / 9.182	- / 0.282	- / 0.241	- / 0.132	- / -	- / 0.132	- / 0.128	- / 0.128	- / -	- / -	- / 0.000	- / 10.093	
Installation													
Modification Item 1 of 1: NACELLES (OSIP 009-01)	- / 0.000	- / 0.000	- / 1.246	- / 0.770	- / 0.000	- / 0.770	- / 0.448	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2.464	
Subtotal: Installation	- / 0.000	- / -	- / 1.246	- / 0.770	- / -	- / 0.770	- / 0.448	- / -	- / -	- / -	- / 0.000	- / 2.464	
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 2 / NACELLES (OSIP 009-01)			
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: CH-53E(149), MH-53E(28), 177 TOTAL				Modification Type: MISSION/MISSION ENHANCEMENT				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Total Cost (Procurement + Support + Installation)	40.435	0.848	10.010	8.096	0.000	8.096	0.576	0.128	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series										Modification Number / Title: 2 / NACELLES (OSIP 009-01)																	
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																						
Modification Item 1 of 1: NACELLES (OSIP 009-01)																																
Manufacturer Information																																
Manufacturer Name: Sikorski Aircraft Corp										Manufacturer Location: Stratford, CT																						
Administrative Leadtime (<i>in Months</i>): 3										Production Leadtime (<i>in Months</i>): 12																						
Dates		FY 2017			FY 2018			FY 2019			FY 2020			FY 2021			FY 2022			FY 2023												
Contract Dates					Dec 2017			Nov 2018																								
Delivery Dates					Dec 2018			Nov 2019																								
Manufacturer Name: Sikorski Aircraft Corp										Manufacturer Location: Stratford, CT																						
Administrative Leadtime (<i>in Months</i>): 3										Production Leadtime (<i>in Months</i>): 12																						
Dates		FY 2017			FY 2018			FY 2019			FY 2020			FY 2021			FY 2022			FY 2023												
Contract Dates					Dec 2017			Nov 2018																								
Delivery Dates					Dec 2018			Nov 2019																								
Installation Information																																
Method of Implementation: Contractor Field Mod Team:: Installation Name: MH-53 Installs																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years		- / -	- / -	7 / 0.098	16 / 0.224	0 / 0.000	16 / 0.224	- / -	- / -	- / -	- / -	0 / 0.000	23 / 0.322																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	6 / 0.084	0 / 0.000	6 / 0.084	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.084																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.014	- / -	- / -	- / -	0 / 0.000	1 / 0.014																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		- / -	- / -	7 / 0.098	22 / 0.308	0 / 0.000	22 / 0.308	1 / 0.014	- / -	- / -	- / -	0 / 0.000	30 / 0.420																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	1	1	3	2	6	6	5	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Out	-	-	-	-	-	1	1	3	2	6	6	5	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0528 / H-53 Series										Modification Number / Title: 2 / NACELLES (OSIP 009-01)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: NACELLES (OSIP 009-01)																																							
Installation Information																																							
Method of Implementation: Contractor Field Mod Team:: Installation Name: CH-53 Installs																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																										
Prior Years		- / -	- / -	82 / 1.148	3 / 0.042	0 / 0.000	3 / 0.042	- / -	- / -	- / -	- / -	0 / 0.000	85 / 1.190																										
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2018		- / -	- / -	- / -	30 / 0.420	0 / 0.000	30 / 0.420	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.420																										
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.434	- / -	- / -	- / -	0 / 0.000	31 / 0.434																										
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
Total		- / -	- / -	82 / 1.148	33 / 0.462	0 / 0.000	33 / 0.462	31 / 0.434	- / -	- / -	- / -	0 / 0.000	146 / 2.044																										
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	16	16	25	25	6	9	9	9	7	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Out	-	-	-	-	-	16	16	25	25	6	9	9	9	7	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Method of Implementation (Organic): MH-53E Backbone A Kits																														Installation Quantity: 26									
Method of Implementation (Organic): MH-53E Backbone A Kits - Reserve																														Installation Quantity: 4									
Method of Implementation (Organic): CH-53E Backbone A Kits																														Installation Quantity: 140									
Method of Implementation (Organic): CH-53E Backbone A Kits - Reserve																														Installation Quantity: 6									
Method of Implementation (Organic): Archived A Kits OSIP 09-01																														Installation Quantity: 46									
Footnotes:																																							

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 2 / NACELLES (OSIP 009-01)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
⁽³⁾ Cost Element 1.1.8 prior year kits were installed organically		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 3 / H-53 ERIP (OSIP 010-05)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	188.780	2.195	0.000	5.000	0.000	5.000	0.000	0.000	0.000	0.000	0.000	195.975
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	188.780	2.195	0.000	5.000	0.000	5.000	0.000	0.000	0.000	0.000	0.000	195.975
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	188.780	2.195	0.000	5.000	0.000	5.000	0.000	0.000	0.000	0.000	0.000	195.975
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The T64 Engine Reliability Improvement Program (ERIP) upgrades top age related engine degraders, fatigue limiters, and performance degradation on the T64 engine. A concentrated effort is to upgrade the T64-416 engines to the T64-416A configuration by replacing components of the engine with improved hardware designs to increase reliability and reduce logistical requirements by conforming to one configuration. T64 engines will be modified to incorporate titanium nitride-coated compressor airfoils. Titanium nitride coating provides significantly improved durability and reliability for operation in austere environments. Degraded and obsolete peculiar support equipment will also be improved.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: 429 of 460 engines have been upgraded from the T64-416 to T64-416A configuration.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: FY2019 funding is allotted for non-recurring engineering to incorporate modifications and configuration changes for increased reliability and readiness of the T64 engine. Efforts will include development of an ECP for core engine and fuel control improvements and necessary support equipment upgrades.

Notes:

1. Due to PY OCO funding allocations, kits were procured in PY and installs are taking place based on fleet need and aircraft availability.
2. Cost Element 1.1.1 Starting in FY18 kits will be completed via O-level installations.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 3 / H-53 ERIP (OSIP 010-05)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: H-53 T64 Turbo-shaft engines				Modification Type: SAFETY, READINESS AND MAINTAINABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: H-53 ERIP (OSIP 010-05)													
B Kits													
Recurring													
1.1.1) PPC-119/419 Fuel Control/Pump Kits - NonOrganic ⁽⁴⁾		603 / 3.126	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	603 / 3.126	
1.1.2) PPC-119/419 Fuel Control/Pump Kits - Reserve - NonOrganic		39 / 0.202	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 0.202	
1.1.3) Improved Engine Gauges - Organic		528 / 4.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	528 / 4.750	
1.1.4) ARCHIVED B KITS - Organic		4,221 / 141.431	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,221 / 141.431	
Subtotal: Recurring		- / 149.509	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 149.509	
Non-Recurring													
1.2.1) Non-Recurring Engineering - Organic		- / 0.250	- / -	- / -	- / 5.000	- / -	- / 5.000	- / -	- / -	- / -	- / -	- / 5.250	
Subtotal: Non-Recurring		- / 0.250	- / -	- / -	- / 5.000	- / -	- / 5.000	- / -	- / -	- / -	- / 0.000	- / 5.250	
Subtotal: H-53 ERIP (OSIP 010-05)		5,391 / 149.759	- / -	- / -	- / 5.000	- / -	- / 5.000	- / -	- / -	- / -	- / -	5,391 / 154.759	
Subtotal: Procurement, All Modification Items		- / 149.759	- / -	- / -	- / 5.000	- / -	- / 5.000	- / -	- / -	- / -	- / 0.000	- / 154.759	
Support (All Modification Items)													
2.2) Data		- / 1.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.005	
2.3) Training Equipment		- / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.004	
2.4) Training Equipment-OCO		- / 0.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.506	
2.5) Support Equipment		- / 5.829	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.829	
2.6) ILS		- / 0.437	- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.482	
2.7) ILS - Reserve		- / 0.110	- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.155	
2.8) Other Support		- / 18.899	- / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.974	
2.9) Other Support - Reserve		- / 0.090	- / 0.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.124	
2.10) Other Support-OCO		- / 5.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.400	
Subtotal: Support		- / 32.280	- / 0.199	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 32.479	
Installation													
Modification Item 1 of 1: H-53 ERIP (OSIP 010-05)		- / 6.741	- / 1.996	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 8.737	
Subtotal: Installation		- / 6.741	- / 1.996	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.737	
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 3 / H-53 ERIP (OSIP 010-05)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: H-53 T64 Turbo-shaft engines				Modification Type: SAFETY, READINESS AND MAINTAINABILITY						Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Total Cost (Procurement + Support + Installation)	188.780	2.195	0.000	5.000	0.000	5.000	0.000	0.000	0.000	0.000	0.000	195.975	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0528 / H-53 Series										Modification Number / Title: 3 / H-53 ERIP (OSIP 010-05)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: H-53 ERIP (OSIP 010-05)																															
Manufacturer Information																															
Manufacturer Name: GE-PPC119-419															Manufacturer Location: Not Specified																
Administrative Leadtime (<i>in Months</i>): 10															Production Leadtime (<i>in Months</i>): 2																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: PPC119/419																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		308 / 6.741		38 / 1.996		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		346 / 8.737					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		308 / 6.741		38 / 1.996		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		346 / 8.737					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	308	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	346
Out	308	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	346
Method of Implementation (Organic): Improved Engine Gauges																															
																									Installation Quantity: 528						
Method of Implementation (Organic): ARCHIVED B KITS - Not Installed																															
																									Installation Quantity: 4221						

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 3 / H-53 ERIP (OSIP 010-05)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: ⁽⁴⁾ Cost Element 1.1.1 Starting in FY18 kits will be completed via O-level installations.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	265.788	17.417	13.685	25.100	0.000	25.100	13.609	9.283	6.692	7.205	87.767	446.546
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	265.788	17.417	13.685	25.100	0.000	25.100	13.609	9.283	6.692	7.205	87.767	446.546
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	265.788	17.417	13.685	25.100	0.000	25.100	13.609	9.283	6.692	7.205	87.767	446.546
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The H-53 aircraft is planned to be in service through Calendar Year 2029. The H-53 Aircraft Sustainment Strategy targets initiatives to remedy the top maintenance degraders, fatigue life limiters, and safety issues that impede the aircraft's ability to operate into the future. This program implements mitigations to H-53 component obsolescence structural limitations; landing gear, dynamic components, missions systems, life support, wiring improvements to aircrew safety and all other components required to fly the H-53E Fleet sustainment support in an affordable manner will continue until the H-53K becomes available. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The H-53 Sustainment Program Acquisition Strategy was approved by Program Executive Office (Aircraft) in December 2013 to be executed as one Abbreviated Acquisition Program (AAP) for Automatic Flight Control System (AFCS) and multiple independent projects related to safety, obsolescence, readiness and fatigue of all aircraft systems (e.g., fuel, rotor, drive, landing gear, electrical, hydraulic, lighting, tow, flight control, communication/navigation, pitot/static and cockpit instrumentation). Outside of the AFCS AAP, each year of the program involves non-recurring engineering (NRE) on some projects, leading to production and installation in out-years. Other projects require little or no NRE and can be acquired and installed quickly during routine maintenance. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP increases \$12.030M from FY2018 to FY2019. FY2019 provides funding for the #2 Engine Fire Prevention Kits, Safety Readiness Improvement Kits, and for the modifications required to bring four reconstituted MH-53E aircraft in line with U.S. Fleet Standards. This funding mitigates the inability to meet Required Operational Capabilities (ROC)/Projected Operational Environment (POE) aircraft requirements and ensures the MH-53E community remains viable and capable to meet all fleet needs. Notes: 1. Cost Element 1.1.8 Kapton kits - Four additional kits are being procured in FY19 to support the MH-53E Modification of four reconstituted A/C. 2. Cost Element 2.1.2 contains efforts with different quantities and scope each year which results in an overall cost variability. 3. Cost Element 2.1.8 Retrofit Kits for Common Navy Configuration - Created to support the modifications required to bring four reconstituted MH-53E aircraft in line with U.S. Fleet Standards. These efforts contain different quantities and scope each year resulting in overall cost variability through the completion of the modifications. Future Modifications: Forward Hydraulic Access Panel Soundproofing Retention Kits												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total				Modification Type: MISSION/PERFORMANCE SUSTAINMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)													
A Kits													
Recurring													
1.1.1) CH-53Aircrew Cooling OCO - NonOrganic		152 / 1.199	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	152 / 1.199	
1.1.2) Engine Start Valve Kits - Organic		- / -	- / -	534 / 0.801	- / -	- / -	- / -	- / -	- / -	- / -	180 / 0.550	714 / 1.351	
1.1.3) #2 Engine Fire Prevention Kits - NonOrganic		- / -	- / -	17 / 0.755	18 / 0.990	- / -	18 / 0.990	30 / 1.874	36 / 2.340	36 / 2.387	43 / 2.851	180 / 11.197	
1.1.4) #2 Engine Fire Prevention Kits - Reserve - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.871	13 / 0.871	
1.1.5) H-53 HEELS Rev-A - NonOrganic		146 / 0.102	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 0.102	
1.1.6) H-53 HEELS Rev-A - Reserve - NonOrganic		6 / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.004	
1.1.7) H-53 HEELS A1 and A3 replacement kits - NonOrganic ⁽⁵⁾		12 / 0.103	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.103	
1.1.8) Kapton Wiring Kits (H-53) - NonOrganic ⁽⁶⁾		170 / 20.740	- / -	- / -	4 / 4.000	- / -	4 / 4.000	- / -	- / -	- / -	- / -	174 / 24.740	
1.1.9) Kapton Wiring Kits (H-53) - Reserve - NonOrganic		1 / 0.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.143	
1.1.10) Kapton Harness Replacement Parts - Organic		230 / 4.452	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	230 / 4.452	
1.1.11) Obsolescent Components (H-53) - Organic		139 / 5.623	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	174 / 22.403	313 / 28.026	
1.1.12) AYC 1406 Tail Rotor Drive Shaft A Kits - NonOrganic		75 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 0.000	
1.1.13) ARCHIVED A KITS - Organic		1,343 / 73.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,343 / 73.072	
Subtotal: Recurring		- / 105.438	- / -	- / 1.556	- / 4.990	- / -	- / 4.990	- / 1.874	- / 2.340	- / 2.387	- / 2.851	- / 23.824	- / 145.260
Non-Recurring													
1.2.1) Installation Kits (including Automatic Flight Control System) - Organic		- / 40.700	- / 2.240	- / 2.027	- / 1.325	- / -	- / 1.325	- / 1.722	- / 0.726	- / 0.741	- / 0.741	- / 4.773	- / 54.995
1.2.2) Non-Recurring Engineering - Reserve (including AFCS) - Organic		- / 0.638	- / 0.106	- / 0.110	- / 0.110	- / -	- / 0.110	- / 0.110	- / 0.100	- / 0.102	- / 0.102	- / -	- / 1.378
1.2.3) Installation Kits (OCO) - Organic		- / 3.926	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.926
Subtotal: Non-Recurring		- / 45.264	- / 2.346	- / 2.137	- / 1.435	- / -	- / 1.435	- / 1.832	- / 0.826	- / 0.843	- / 0.843	- / 4.773	- / 60.299
B Kits													
Recurring													
2.1.2) Safety/Readiness Improvement Kits - Organic		7 / 0.791	21 / 3.908	15 / 2.751	24 / 4.548	- / -	24 / 4.548	17 / 3.210	13 / 2.370	9 / 1.679	8 / 1.551	158 / 6.004	272 / 26.812

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total				Modification Type: MISSION/PERFORMANCE SUSTAINMENT				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.3) Soundproofing Retention Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	164 / 8.350	164 / 8.350
2.1.4) Soundproofing Retention Kits - Reserve - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.650	13 / 0.650
2.1.5) SBU-29A Gyros B kit - Organic	212 / 0.514	720 / 1.867	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 0.515	1,132 / 2.896
2.1.6) AMARG Modifications - NonOrganic ⁽⁷⁾	- / -	- / -	2 / 0.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.481
2.1.7) IR Fire Detector - Organic	- / -	- / -	1,056 / 3.407	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,056 / 3.407
2.1.8) Retrofit Kits for Common Navy Configuration - Organic	- / -	- / -	- / -	- / 11.178	- / -	- / 11.178	- / 2.515	- / 2.000	- / -	- / -	- / -	- / 15.693
2.1.9) Forward Hydraulic Access Panel - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	- / 2.000
2.1.10) ARCHIVED B KITS - Organic	4,175 / 18.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,175 / 18.443
Subtotal: Recurring	- / 19.748	- / 5.775	- / 6.639	- / 15.726	- / -	- / 15.726	- / 5.725	- / 4.370	- / 1.679	- / 1.551	- / 17.519	- / 78.732
Non-Recurring												
2.2.1) Installation Cost - Prior Year - Organic	- / 3.552	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.552
2.2.2) Installation Equipment - Organic	- / 0.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.125
Subtotal: Non-Recurring	- / 3.677	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.677
Subtotal: H-53 A/C SUSTAINMENT (OSIP 008-06)	6,668 / 174.127	741 / 8.121	1,624 / 10.332	46 / 22.151	- / -	46 / 22.151	47 / 9.431	49 / 7.536	45 / 4.909	51 / 5.245	902 / 46.116	10,173 / 287.968
Subtotal: Procurement, All Modification Items	- / 174.127	- / 8.121	- / 10.332	- / 22.151	- / -	- / 22.151	- / 9.431	- / 7.536	- / 4.909	- / 5.245	- / 46.116	- / 287.968
Support (All Modification Items)												
3.1) Engineering Change Orders	- / 0.325	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.325
3.2) Data - OCO	- / 0.512	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.512
3.3) Data	- / 1.437	- / 0.387	- / 0.230	- / 0.100	- / -	- / 0.100	- / 0.237	- / 0.100	- / 0.102	- / 0.102	- / 4.729	- / 7.424
3.4) Data - Reserve	- / 0.106	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.020	- / 0.020	- / 0.020	- / -	- / 0.566
3.5) Training Equipment	6 / 0.030	- / 0.017	- / 0.018	- / 0.020	- / -	- / 0.020	- / 0.020	- / 0.020	- / 0.020	- / 0.020	- / -	6 / 0.165
3.6) Support Equipment	104 / 1.831	- / 0.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.850	104 / 2.689
3.7) ILS	- / 6.340	- / 0.500	- / 0.500	- / 0.260	- / -	- / 0.260	- / 0.360	- / 0.150	- / 0.153	- / 0.153	- / 3.978	- / 12.394
3.8) ILS - Reserve	- / 1.013	- / 0.100	- / 0.100	- / 0.050	- / -	- / 0.050	- / 0.100	- / 0.069	- / 0.070	- / 0.070	- / -	- / 1.572
3.9) Other Support	- / 49.206	- / 2.172	- / 1.900	- / 1.219	- / -	- / 1.219	- / 1.500	- / 0.663	- / 0.676	- / 0.676	- / 15.262	- / 73.274
3.10) Other Support - Reserve	- / 2.017	- / 0.151	- / 0.150	- / 0.150	- / -	- / 0.150	- / 0.150	- / 0.100	- / 0.102	- / 0.102	- / 15.798	- / 18.720
3.11) Other Support - OCO	- / 1.702	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.702
3.12) Interim Contractor support	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.270
Subtotal: Support	- / 64.789	- / 3.435	- / 2.998	- / 1.899	- / -	- / 1.899	- / 2.467	- / 1.122	- / 1.143	- / 1.143	- / 40.617	- / 119.613

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total				Modification Type: MISSION/PERFORMANCE SUSTAINMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Installation													
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)	- / 26.872	- / 5.861	- / 0.355	- / 1.050	- / 0.000	- / 1.050	- / 1.711	- / 0.625	- / 0.640	- / 0.817	- / 1.034	- / 38.965	
Subtotal: Installation	- / 26.872	- / 5.861	- / 0.355	- / 1.050	- / -	- / 1.050	- / 1.711	- / 0.625	- / 0.640	- / 0.817	- / 1.034	- / 38.965	
Total													
Total Cost (Procurement + Support + Installation)	265.788	17.417	13.685	25.100	0.000	25.100	13.609	9.283	6.692	7.205	87.767	446.546	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0528 / H-53 Series			Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)							
Manufacturer Information							
Manufacturer Name: Sikorski Aircraft Corp				Manufacturer Location: Stratford, CT			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Delivery Dates		Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022	Jun 2023
Manufacturer Name: Commanding Officer Cherry Point Naval Air Depot				Manufacturer Location: Cherry Point, NC			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Carleton Tech, Inc				Manufacturer Location: Orchard Park, NY			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: SOFSA-Kapton ⁽⁸⁾				Manufacturer Location: Lexington, KY			
Administrative Leadtime (<i>in Months</i>): 10				Production Leadtime (<i>in Months</i>): 11			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jul 2019				

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0528 / H-53 Series		Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates			Jun 2020				
Manufacturer Name: L-3 Heels Rev A				Manufacturer Location: Bluegrass, KY			
Administrative Leadtime (<i>in Months</i>): 11				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Not Specified.				Manufacturer Location: Not Specified..			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Feb 2018					
Delivery Dates		Feb 2019					
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Aircrew Cooling

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	139 / 0.918	10 / 0.081	3 / 0.026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	152 / 1.025
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	139 / 0.918	10 / 0.081	3 / 0.026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	152 / 1.025

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	139	2	2	3	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152
Out	139	2	2	3	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Engine Fire Prevent

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	17 / 0.284	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	17 / 0.284
FY 2019	- / -	- / -	- / -	18 / 0.300	0 / 0.000	18 / 0.300	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.300
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.511	- / -	- / -	- / -	0 / 0.000	30 / 0.511
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.625	- / -	- / -	0 / 0.000	36 / 0.625
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.640	- / -	0 / 0.000	36 / 0.640
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 0.817	0 / 0.000	43 / 0.817

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Engine Fire Prevent

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.230	13 / 0.230
Total	- / -	- / -	17 / 0.284	18 / 0.300	0 / 0.000	18 / 0.300	30 / 0.511	36 / 0.625	36 / 0.640	43 / 0.817	13 / 0.230	193 / 3.407

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	9	8	-	-	9	9	-	-	15	15	-	-	18	18	-	-	18	18	-	-	21	22	13	193
Out	-	-	-	-	-	-	-	9	8	-	-	9	9	-	-	15	15	-	-	18	18	-	-	18	18	-	-	21	22	13	193

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Helicopter Emergenc

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	122 / 0.194	20 / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.024	164 / 0.238
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	122 / 0.194	20 / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.024	164 / 0.238

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0528 / H-53 Series											Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)																															
Installation Information																															
Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Helicopter Emergenc																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	122	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	164
Out	122	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	164
Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Kapton Wiring																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		152 / 25.741	19 / 5.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.780	171 / 32.241																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.200	- / -	- / -	- / -	0 / 0.000	4 / 1.200																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		152 / 25.741	19 / 5.720	- / -	- / -	- / -	- / -	4 / 1.200	- / -	- / -	- / -	0 / 0.780	175 / 33.441																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	152	6	4	4	5	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	175
Out	152	6	4	4	5	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	175

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Installation Information

Method of Implementation: [none specified]:: Installation Name: AYC 1406 Tail Rotor Drive Shaft A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	12 / 0.019	20 / 0.040	26 / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	58 / 0.104
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	12 / 0.019	20 / 0.040	26 / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	58 / 0.104

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	12	5	5	5	5	7	7	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58
Out	12	5	5	5	5	7	7	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: AMARG Modifications

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	2 / 0.750	0 / 0.000	2 / 0.750	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.750
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0528 / H-53 Series										Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)																																							
Installation Information																																							
Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: AMARG Modifications																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																								
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
Total		- / -	- / -	- / -	2 / 0.750	0 / 0.000	2 / 0.750	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.750																										
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2								
Out	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2								
Method of Implementation (Organic): Engine Start Valve Kits																														Installation Quantity: 714									
Method of Implementation (Organic): Kapton Harness Replacement Parts																														Installation Quantity: 230									
Method of Implementation (Organic): Obsolescent Components (H-53)																														Installation Quantity: 313									
Method of Implementation (Organic): ARCHIVED A KITS - Not Installed																														Installation Quantity: 1343									
Method of Implementation (Organic): Safety/Readiness Improvement Kits																														Installation Quantity: 272									
Method of Implementation (Organic): Soundproofing Retention Kits - Not Installed																														Installation Quantity: 164									
Method of Implementation (Organic): Soundproofing Retention Kits - Reserve - Not Installed																														Installation Quantity: 13									
Method of Implementation (Organic): SBU-29A Gyros B kit																														Installation Quantity: 1132									

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)		
Installation Information		
Method of Implementation (Organic): IR Fire Detector - Not Installed		Installation Quantity: 1056
Method of Implementation (Organic): ARCHIVED B KITS - Not Installed		Installation Quantity: 4175
Footnotes: ⁽⁵⁾ 12 HEELS A1 and A3 kits were shipped to Iraq. The entire shipment was lost in theater. These additional kits are required to complete installs with Rev A. There are being installed simultaneously with the Rev A Kit. ⁽⁶⁾ FY17 Kapton install unit cost reflects higher than prior fiscal years as all FY17 installs are Phase III, the most complex of the three phases. ⁽⁷⁾ Cost Element 2.1.7 AMARG Modifications is to fund the reconstitution of 2 MH-53E war reserve aircraft to current H-53E configuration. ⁽⁸⁾ Four additional kits are being installed in FY20 to support the four reconstitutionalized aircraft.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / DIRCM (OSIP 010-08)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	207.027	0.985	0.646	0.052	0.000	0.052	0.000	0.000	0.000	0.000	0.000	208.710
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	207.027	0.985	0.646	0.052	0.000	0.052	0.000	0.000	0.000	0.000	0.000	208.710
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	207.027	0.985	0.646	0.052	0.000	0.052	0.000	0.000	0.000	0.000	0.000	208.710
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Currently, the H-53 is only integrated with Infrared (IR) detection equipment and rudimentary countermeasure flares. This funding is for Engineering Change Proposal (ECP) development, A-kit procurement and installation of a Direct Infrared Counter Measure (DIRCM) system for H-53s. This system will help protect the H-53 which is highly susceptible to IR seeking Man-Portable Air Defense System (MANPADS), the weapon of choice in all current theaters. This system has been found effective against fourth generation IR MANPADS, and is extremely effective against earlier generation MANPADS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Recurring Engineering (NRE) for the CH-53E began in May 07 and concluded with a completed and verified Technical Directive in early FY09. Test and Evaluation for the CH-53E began with risk-reduction testing in April 08 and concluded with Initial Operational Test and Evaluation (IOT&E) in late FY09. Critical to early fielding was the Quick reaction assessment, completed in August 08 which led to an Early Operational Capability (EOC) decision in November 08. Validation and verification were conducted for the CH-53E between May - September 08. Non-Recurring engineering for the CH-53D began in May 08 and concluded with a completed and verified TD in early FY10. The FY11 United States Marine Corps Aviation Plan was released in October 2010 and called for the early retirement of the CH-53D. Development and deployment of the DIRCM system on the CH-53D system was subsequently suspended and the remaining funding was realigned to other priorities consistent with Headquarters Marine Corps direction. DIRCM is being procured as a mission kit by PMA-272. CH-53Es must be modified with an A-kit to accept the mission kit.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP decreases \$0.594M from FY2018 to FY2019. Decrease is a result of limited installations taking place due to aircraft availability.

Notes:

1. Due to PY OCO funding allocations, kits were procured in PY and installs are taking place based on fleet need and aircraft availability.
2. Cost Element 1.1.1, Cost Element 1.1.2 and Cost Element 1.1.3 DIRCM basic and Rev A installs differ substantially in cost. Fluctuations in install costs are based on the qty of basic installs as compared to the qty of Rev A installs required that year.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 5 / DIRCM (OSIP 010-08)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CH-53E (149), 149 Total					Modification Type: MISSION/PERFORMANCE SUSTAINMENT					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DIRCM (OSIP 010-08)													
A Kits													
Recurring													
1.1.1) CH-53E Kits OCO - NonOrganic	54 / 5.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 5.483	
1.1.2) CH-53E (Rev-A) A-kits OCO - NonOrganic	147 / 2.771	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	147 / 2.771	
1.1.3) CH-53E (Rev-A) A Kits OCO - Reserve - NonOrganic	6 / 0.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.113	
1.1.4) Archived A Kits OSIP 10-08 - Organic	- / 44.881	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.881	
Subtotal: Recurring	- / 53.248	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 53.248	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	3 / 5.775	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.775	
Subtotal: Non-Recurring	- / 5.775	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 5.775	
B Kits													
Recurring													
2.1.1) Archived B Kits - Organic	223 / 108.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	223 / 108.490	
Subtotal: Recurring	- / 108.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 108.490	
Subtotal: DIRCM (OSIP 010-08)	433 / 167.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	433 / 167.513	
Subtotal: Procurement, All Modification Items	- / 167.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 167.513	
Support (All Modification Items)													
3.2) Data	- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.225	
3.3) Training Equipment	- / 0.335	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.335	
3.4) Training Equipment-OCO	- / 0.999	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.999	
3.6) ILS	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	
3.7) ILS-OCO	- / 0.234	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.234	
3.8) Other Support	- / 14.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.112	
3.9) Other Support-OCO	- / 9.541	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.541	
3.10) Interim Contractor Support	- / 6.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.041	
Subtotal: Support	- / 34.487	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 34.487	
Installation													
Modification Item 1 of 1: DIRCM (OSIP 010-08)	- / 5.027	- / 0.985	- / 0.646	- / 0.052	- / 0.000	- / 0.052	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 6.710	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 5 / DIRCM (OSIP 010-08)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (149), 149 Total			Modification Type: MISSION/PERFORMANCE SUSTAINMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Subtotal: Installation	- / 5.027	- / 0.985	- / 0.646	- / 0.052	- / -	- / 0.052	- / -	- / -	- / -	- / -	- / 0.000	- / 6.710	
Total													
Total Cost (Procurement + Support + Installation)	207.027	0.985	0.646	0.052	0.000	0.052	0.000	0.000	0.000	0.000	0.000	208.710	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0528 / H-53 Series										Modification Number / Title: 5 / DIRCM (OSIP 010-08)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: DIRCM (OSIP 010-08)																															
Manufacturer Information																															
Manufacturer Name: Northrop Grumman-DIRCM															Manufacturer Location: Rolling Meadows, IL																
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Manufacturer Name: Northrop Grumman-DIRCM															Manufacturer Location: Rolling Meadows, IL																
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: DIRCM (OSIP 010-08)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		144 / 5.027	37 / 0.985	24 / 0.646	2 / 0.052	0 / 0.000	2 / 0.052	- / -	- / -	- / -	- / -	0 / 0.000	207 / 6.710																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		144 / 5.027	37 / 0.985	24 / 0.646	2 / 0.052	0 / 0.000	2 / 0.052	- / -	- / -	- / -	- / -	0 / 0.000	207 / 6.710																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	144	9	9	9	10	6	6	6	6	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	207
Out	144	9	9	9	10	6	6	6	6	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	207

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / DIRCM (OSIP 010-08)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: DIRCM (OSIP 010-08)		
Installation Information		
Method of Implementation (Organic): Installation Kits N/R - Not Installed		Installation Quantity: 3
Method of Implementation (Organic): Archived B Kits - Not Installed		Installation Quantity: 223

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	28.600	35.207	11.425	7.521	0.000	7.521	15.563	21.943	29.883	28.828	34.019	212.989
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	28.600	35.207	11.425	7.521	0.000	7.521	15.563	21.943	29.883	28.828	34.019	212.989
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	28.600	35.207	11.425	7.521	0.000	7.521	15.563	21.943	29.883	28.828	34.019	212.989
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) will fund avionics systems for the H-53 helicopter. The H-53 strategy is to address safety, survivability, system obsolescence, and avionics deficiencies that require correction to maintain platform relevance on an increasingly networked battlefield. Specifically, this OSIP addresses Critical Survivability Upgrade (CSU), Satellite Communications (SATCOM), and Smart Multifunctional Color Display (SMFCD) for the CH-53E. Additionally CSU NRE for OFP software modification partially supports Identify Friend or Foe (IFF) Mode 5 and Mode S integration for the APX-123 Common Transponder integration.

CSU leverages the aircraft state, rate, and acceleration data available through integration of the H764G (Embedded Global Positioning System/Inertial Navigation System)(EGI) and development of improved hover symbology providing the Phase I Degraded Visual Environment solution. The CSU program also provides the basis for the installation of the APX-123 Transponder to meet Mode 5 Initial Operational Capability (IOC) requirements. Non-recurring engineering efforts in FY17 are to upgrade the MH-53E antiquated cockpit with critical required safety and avionics upgrades, providing increased Situational Awareness and mission efficiency with minefield, Blue Force Tracker (BFT), Area Navigation (RNAV), map and hover displays. Commencing in FY16 is kit procurements for the MH EGI that will allow the MH-53E to utilize the full capability of the APX-23 transponder.

This funding provides for the integration of cockpit avionics with Aircraft Survival Equipment (ASE) to provide time critical data to other battlefield users in order to more rapidly prosecute threats. Smart Multi-Function Color Display (SMFCD), CSU, BFT, and SATCOM have transitioned from various OSIPs into Avionics. This funding effort seeks to meet requirements, and eliminate avionics and ASE related system level deficiencies and safety hazards with the above described improvements, as well as ensuring that all H-53 aircraft are equipped with a full complement of ASE required to operate on the modern networked battlefield. This budget funds installation of Satellite Communications (SATCOM) that meet over the horizon communication requirements. SMFCD improves aircrew safety by reducing pilot workload/associated fatigue and increases aircrew situational awareness. SMFCD provides an integrated avionics suite that will facilitate safe landings in a degraded visual environment, modernize navigational equipment and enhance situational awareness with a joint single integrated air ground picture. SMFCD provides Brown Out Symbology Set (BOSS) display capability on the instrument panel in the pilot's primary field of view, allowing aircrews to land in dusty environments, and reducing the risk of Controlled Flight Into Terrain (CFIT) and resulting loss of life and aircraft. SMFCD provides a real time threat display for the Aircraft Survivability Equipment threat indications currently encountered, such as missiles, small arms, and lasers, overlaid on a real time moving map in the pilot's normal field of view, vice several federated systems scattered around the cockpit. SMFCD further increases safety by eliminating the kneeboard Electronic Display Module (EDM) which currently tethers the pilot (head down) to the aircraft, creating an egress hazard during emergency situations.

Future targeted improvements include, but are not limited to Aircraft Survival Equipment (ASE) upgrades (including state of the art APR-39 and AAR-47), 8.33 kHz channel frequency separation, Required Navigation Performance (RNP) / Area Navigation (RNAV) (RNP/RNAV) certification, Variable Message Format Revision D change 1 compliance, embedded Terrain Avoidance and Warning System (eTAWs) integration, Collision Avoidance System integration, Over-the-Horizon communications and Crash Survivable Flight Data Recorder, Digital Battlefield Interoperability. Safety related improvements include a mitigating solution for Controlled Flight Into Terrain risk when operating in DVE. Lastly, cockpit improvements are needed to provided better lighting, readability and reliability for visual warning systems.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Full EGI integration to commence in FY19.		
JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP decreases \$3.904M from FY2018 to FY2019. Decrease is a result of cancellation of USN H-53 cockpit avionics upgrade.		
Notes:		
1. Cost Element 1.1.6 (MH EGI A kits) and Cost Element 2.1.5 (MH EGI B kits) - Four additional kits are being procured in FY19 to support the MH-53E Modification of four reconstititutionalized aircraft.		
Future Modifications:		
CH-53E APR-39D(V)2		
CH-53E DVE		

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total				Modification Type: MISSION/PERFORMANCE SUSTAINMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)													
A Kits													
Recurring													
1.1.1) SMFCD - NonOrganic ⁽⁹⁾	68 / 0.105	82 / 2.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 2.237	
1.1.2) SMFCD - Reserve - NonOrganic	- / -	6 / 0.156	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.156	
1.1.3) SATCOM - NonOrganic ⁽¹⁰⁾	147 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	147 / 0.000	
1.1.4) Critical Systems upgrade (CSU) - NonOrganic ⁽¹¹⁾	95 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 0.000	
1.1.5) Critical Systems Upgrade (CSU) - Reserve - NonOrganic	6 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.000	
1.1.6) MH EGI A Kits - NonOrganic	2 / 0.167	12 / 0.900	16 / 1.200	4 / 0.300	- / -	4 / 0.300	- / -	- / -	- / -	- / -	- / -	34 / 2.567	
1.1.7) CH-53E APR-39D(V)2 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 8.330	41 / 9.996	36 / 8.820	35 / 8.575	146 / 35.721	
1.1.8) CH-53E DVE A kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	37 / 0.924	26 / 0.650	31 / 0.806	32 / 0.832	11 / 0.286	137 / 3.498	
Subtotal: Recurring	- / 0.272	- / 3.188	- / 1.200	- / 0.300	- / -	- / 0.300	- / 0.924	- / 8.980	- / 10.802	- / 9.652	- / 8.861	- / 44.179	
Non-Recurring													
1.2.1) Installation Kit NRE - Organic ⁽¹²⁾	- / 5.072	- / 0.863	- / 0.297	- / 2.871	- / -	- / 2.871	- / 4.314	- / 4.265	- / 3.533	- / 1.682	- / 1.786	- / 24.683	
Subtotal: Non-Recurring	- / 5.072	- / 0.863	- / 0.297	- / 2.871	- / -	- / 2.871	- / 4.314	- / 4.265	- / 3.533	- / 1.682	- / 1.786	- / 24.683	
B Kits													
Recurring													
2.1.1) SMFCD B Kits - Organic	68 / 0.779	82 / 21.279	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 22.058	
2.1.2) SMFCD B Kits - Reserve - Organic	- / -	6 / 1.557	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.557	
2.1.3) SMFCD B-kit Modem - Organic	98 / 0.000	- / -	58 / 3.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	156 / 3.480	
2.1.4) CH-53 ARC-210 SATCOM Kit-OCO - Organic	40 / 1.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.600	
2.1.5) MH EGI B Kits - Organic	18 / 0.216	12 / 1.050	- / -	4 / 0.348	- / -	4 / 0.348	- / -	- / -	- / -	- / -	- / -	34 / 1.614	
2.1.6) CH-53E DVE B kit - Organic	- / -	- / -	- / -	- / -	- / -	- / -	37 / 5.550	26 / 3.900	31 / 4.650	32 / 4.800	11 / 1.650	137 / 20.550	
Subtotal: Recurring	- / 2.595	- / 23.886	- / 3.480	- / 0.348	- / -	- / 0.348	- / 5.550	- / 3.900	- / 4.650	- / 4.800	- / 1.650	- / 50.859	
Subtotal: H-53 AVIONICS (OSIP 031-12)	542 / 7.939	200 / 27.937	74 / 4.977	8 / 3.519	- / -	8 / 3.519	74 / 10.788	86 / 17.145	103 / 18.985	100 / 16.134	57 / 12.297	1,244 / 119.721	
Subtotal: Procurement, All Modification Items	- / 7.939	- / 27.937	- / 4.977	- / 3.519	- / -	- / 3.519	- / 10.788	- / 17.145	- / 18.985	- / 16.134	- / 12.297	- / 119.721	
Support (All Modification Items)													
3.2) Data	- / 1.016	- / 0.100	- / 0.094	- / 0.095	- / -	- / 0.095	- / 0.250	- / 0.100	- / 0.102	- / 0.104	- / 0.060	- / 1.921	

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LI 0528 - H-53 Series
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series		Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)							
Manufacturer Information							
Manufacturer Name: TBD - CAU				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 4			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Oct 2018	Oct 2019	Oct 2020	Oct 2021	
Delivery Dates			Feb 2019	Feb 2020	Feb 2021	Feb 2022	
Manufacturer Name: Rockwell Collins-SATCOM				Manufacturer Location: CEDAR RAPIDS, IA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD - APR-39D				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Jan 2021	Jan 2022	Jan 2023
Delivery Dates					Jan 2022	Jan 2023	Jan 2024
Manufacturer Name: TBD - DVE				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Jan 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates				Jan 2021	Jan 2022	Jan 2023	Jan 2024
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Lexington, KY			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 11			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)												
Manufacturer Information												
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Delivery Dates												
Manufacturer Name: Raytheon				Manufacturer Location: Indianapolis, IN								
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 12								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Jun 2017											
Delivery Dates	Jun 2018											
Manufacturer Name: MH EGI - Honeywell				Manufacturer Location: Clearwater, FL								
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 12								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	May 2017	Jan 2018	Jan 2019									
Delivery Dates	May 2018	Jan 2019	Jan 2020									
Installation Information												
Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 AVIONICS (OSIP 031-12) - SMFCD												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.039	36 / 0.900	30 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	68 / 1.839
FY 2017	- / -	- / -	7 / 0.210	36 / 1.080	0 / 0.000	36 / 1.080	36 / 1.080	9 / 0.270	- / -	- / -	0 / 0.000	88 / 2.640
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.039	36 / 0.900	37 / 1.110	36 / 1.080	0 / 0.000	36 / 1.080	36 / 1.080	9 / 0.270	- / -	- / -	0 / 0.000	156 / 4.479

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Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0528 / H-53 Series												Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)																															
Installation Information																															
Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 AVIONICS (OSIP 031-12) - SMFCD																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	9	9	9	9	10	13	7	7	9	9	9	9	9	9	9	9	2	2	2	3	-	-	-	-	-	-	-	-	-	-
Out	2	9	9	9	9	10	13	7	7	9	9	9	9	9	9	9	9	2	2	2	3	-	-	-	-	-	-	-	-	-	-
Method of Implementation: Contractor Field Mod Team:: Installation Name: SATCOM																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		104 / 1.887	28 / 0.405	- / -	15 / 0.210	0 / 0.000	15 / 0.210	- / -	- / -	- / -	- / -	0 / 0.000	147 / 2.502																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		104 / 1.887	28 / 0.405	- / -	15 / 0.210	0 / 0.000	15 / 0.210	- / -	- / -	- / -	- / -	0 / 0.000	147 / 2.502																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	104	7	7	7	7	-	-	-	-	4	4	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	104	7	7	7	7	-	-	-	-	4	4	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 AVIONICS (OSIP 031-12) - CSU																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		56 / 4.142	28 / 2.800	17 / 1.768	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	101 / 8.710																		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 AVIONICS (OSIP 031-12) - CSU

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	56 / 4.142	28 / 2.800	17 / 1.768	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	101 / 8.710

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	56	7	7	7	7	4	4	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101
Out	56	7	7	7	7	4	4	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101

Method of Implementation: Contractor Field Mod Team:: Installation Name: MH EGI A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 0.057	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.057
FY 2017	- / -	- / -	12 / 0.343	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.343
FY 2018	- / -	- / -	- / -	16 / 0.458	0 / 0.000	16 / 0.458	- / -	- / -	- / -	- / -	0 / 0.000	16 / 0.458
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.048	- / -	- / -	- / -	0 / 0.000	4 / 0.048
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 0.057	12 / 0.343	16 / 0.458	0 / 0.000	16 / 0.458	4 / 0.048	- / -	- / -	- / -	0 / 0.000	34 / 0.906

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Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0528 / H-53 Series												Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: MH EGI A Kits																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	1	1	-	-	6	6	-	5	5	6	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	34
Out	-	-	-	1	1	-	-	6	6	-	5	5	6	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	34	

Method of Implementation: [none specified]:: Installation Name: CH-53E APR-39D(V)2												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	34 / 6.800
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	41 / 8.200
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 7.200	35 / 7.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 7.000	146 / 29.200
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 14.200	146 / 29.200

Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	12	-	13	14	14	71	146	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	12	-	13	14	14	71	146	

Method of Implementation: Contractor Field Mod Team:: Installation Name: CH-53E DVE A kits												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0528 / H-53 Series										Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: CH-53E DVE A kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 1.517	- / -	- / -	0 / 0.000	37 / 1.517																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 1.066	- / -	0 / 0.000	26 / 1.066																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.271	0 / 0.000	31 / 1.271																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.281	32 / 1.281																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.451	11 / 0.451																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 1.517	26 / 1.066	31 / 1.271	43 / 1.732	137 / 5.586																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	13	11	-	9	9	8	-	11	11	9	43	137
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	13	11	-	9	9	8	-	11	11	9	43	137
Method of Implementation (Organic): SMFCD B Kits																				Installation Quantity: 150											
Method of Implementation (Organic): SMFCD B Kits - Reserve																				Installation Quantity: 6											
Method of Implementation (Organic): SMFCD B-kit Modem																				Installation Quantity: 156											
Method of Implementation (Organic): CH-53 ARC-210 SATCOM Kit-OCO																				Installation Quantity: 40											
Method of Implementation (Organic): MH EGI B Kits																				Installation Quantity: 34											
Method of Implementation (Organic): CH-53E DVE B kit																				Installation Quantity: 137											

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 AVIONICS (OSIP 031-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: ⁽⁹⁾ Cost Element 1.1.1 Prior Year Kits procured under OSIP 15-05, 10 Trainer kits installed at the "O" Level. ⁽¹⁰⁾ Cost Element 1.1.3 Kits procured under OSIP 20-07 ⁽¹¹⁾ Cost Element 1.1.4 40 Visually Degraded Environment (VDE) kits are being installed simultateously with BFT Kits. Prior year kits procured under OSIP 15-05 ⁽¹²⁾ Cost Element 1.2.1 Installation Kit NRE - Increase in FY19 is to support the full integration of EGI, and non-recurring engineering required for mission essential navigation for DVE and APR-39D(V)2.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 7 / Correction of Deficiencies (OSIP 007-19)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 390					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	11.010	0.000	11.010	19.490	16.746	24.713	31.187	24.877	128.023
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	11.010	0.000	11.010	19.490	16.746	24.713	31.187	24.877	128.023
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	11.010	0.000	11.010	19.490	16.746	24.713	31.187	24.877	128.023
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational and Safety Improvement Program incorporates Corrections of Deficiencies on CH-53K aircraft related to safety, maintainability, reliability and obsolescence of aircraft systems. These modifications and selected component changes will be accomplished by field retrofit performed by FRC, organic contractor artisans and contractor field mod teams. In order to resolve emerging deficiencies in a timeline that supports fleet requirements, the airframe, avionics, and propulsion and power systems which must be modified and installed as critical corrections/changes are identified. Funds will be used to manage, prepare, process, develop for retrofit, validate/verify, and incorporate Engineering Change Proposals (ECP) and implement those corrections to improve and sustain the CH-53K operations. Beginning FY19 Corrections/modifications will be integrated for Reliability improvements, Avionics systems including cockpit avionics, data, displays and controls, software, Navigation / Safety systems, Communications/Identification/Intercommunication Systems (ICS); Airframe corrections to include all structural components, cowlings, landing gear, fuselage and various dynamic components and internal/external cargo load; Propulsion and Power upgrades include tail rotors, engines, fuel system, hydraulic power system, auxiliary power, ECS/Icing, rotors assembly, transmission and drive train; Main Rotor Blade (MRB) Tip Core Deficiency, and Wheel & Brake deficiencies. Specifically, MRB Tip Core Deficiency effort is required in order to improve the performance of the main rotor blade by providing strengthening at the tip end of the current blade. Each aircraft will require seven (7) improved main rotor blades to meet stated requirement. Current aircraft wheel does not meet program structural requirement. As such, a wheel improvement effort will be required in order to provide a strengthened wheel design that satisfies fatigue requirements. In addition to the wheel, a change to the brake design is required due to a known backpressure issue. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: CH-53K ADM signed for MS-C on 4 April 2017. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: The CH-53K Heavy Lift Helicopter program will include 205 Helicopters: Three Engineering Development Model (EDM), Six System Demonstration Test Articles (SDTA's) and 194 production aircraft. FY19 commences with required retrofits to upgrade the SDTA's and EDM aircraft to production configuration for delivery to the fleet. This is a FY19 New Start.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 7 / Correction of Deficiencies (OSIP 007-19)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 390						
Models of Systems Affected: CH-53K				Modification Type: Safety, Reliability, Improved Mission Capability				Related RDT&E PEs: 0605212N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Correction of Deficiencies (OSIP 007-19)													
A Kits													
Recurring													
1.1.1) Avionics - NonOrganic ⁽¹³⁾	- / -	- / -	- / -	6 / 0.916	- / -	6 / 0.916	6 / 0.931	10 / 0.686	14 / 4.420	26 / 7.800	- / -	62 / 14.753	
1.1.2) Airframe - NonOrganic ⁽¹⁴⁾	- / -	- / -	- / -	6 / 3.770	- / -	6 / 3.770	6 / 7.590	10 / 5.700	14 / 5.800	26 / 10.400	- / -	62 / 33.260	
1.1.3) Propusion and Power - NonOrganic ⁽¹⁵⁾	- / -	- / -	- / -	6 / 0.690	- / -	6 / 0.690	6 / 0.784	10 / 0.445	14 / 2.858	26 / 5.200	- / -	62 / 9.977	
1.1.4) Reliability Improvements - Organic	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.500	- / -	- / -	- / -	- / -	8 / 3.500	
1.1.5) MRB Tip Core Deficiency - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 6.370	12 / 9.555	4 / 3.348	- / 18.947	26 / 38.220	
1.1.6) Wheel & Brakes Deficiency - Organic	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.300	10 / 0.875	- / -	- / -	- / -	16 / 1.175	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 5.376	- / -	- / 5.376	- / 13.105	- / 14.076	- / 22.633	- / 26.748	- / 18.947	- / 100.885	
Non-Recurring													
1.2.1) A kit Non-recurring - Organic	- / -	- / -	- / -	- / 5.004	- / -	- / 5.004	- / 4.146	- / 0.865	- / 0.646	- / 0.659	- / -	- / 11.320	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 5.004	- / -	- / 5.004	- / 4.146	- / 0.865	- / 0.646	- / 0.659	- / 0.000	- / 11.320	
Subtotal: Correction of Deficiencies (OSIP 007-19)	- / -	- / -	- / -	18 / 10.380	- / -	18 / 10.380	32 / 17.251	50 / 14.941	54 / 23.279	82 / 27.407	- / 18.947	236 / 112.205	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 10.380	- / -	- / 10.380	- / 17.251	- / 14.941	- / 23.279	- / 27.407	- / 18.947	- / 112.205	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / 0.107	- / -	- / 0.107	- / 0.110	- / 0.084	- / 0.118	- / 0.120	- / -	- / 0.539	
3.2) ILS	- / -	- / -	- / -	- / 0.078	- / -	- / 0.078	- / 0.081	- / 0.075	- / 0.088	- / 0.090	- / 0.210	- / 0.622	
3.3) Other Support	- / -	- / -	- / -	- / 0.445	- / -	- / 0.445	- / 0.455	- / 0.417	- / 0.488	- / 0.498	- / -	- / 2.303	
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.630	- / -	- / 0.630	- / 0.646	- / 0.576	- / 0.694	- / 0.708	- / 0.210	- / 3.464	
Installation													
Modification Item 1 of 1: Correction of Deficiencies (OSIP 007-19)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1.593	- / 1.229	- / 0.740	- / 3.072	- / 5.720	- / 12.354	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.593	- / 1.229	- / 0.740	- / 3.072	- / 5.720	- / 12.354	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	11.010	0.000	11.010	19.490	16.746	24.713	31.187	24.877	128.023	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 7 / Correction of Deficiencies (OSIP 007-19)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 390					
Modification Item 1 of 1: Correction of Deficiencies (OSIP 007-19)												
Manufacturer Information												
Manufacturer Name: TBD							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jan 2019	Jan 2020	Dec 2020	Dec 2021	Dec 2022					
Delivery Dates			Jan 2020	Jan 2021	Dec 2021	Dec 2022	Dec 2023					
Manufacturer Name: TBD							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jan 2019	Jan 2020	Dec 2020	Dec 2021	Dec 2022					
Delivery Dates			Jan 2020	Jan 2021	Dec 2021	Dec 2022	Dec 2023					
Manufacturer Name: TBD							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jan 2019	Jan 2020	Dec 2020	Dec 2021	Dec 2022					
Delivery Dates			Jan 2020	Jan 2021	Dec 2021	Dec 2022	Dec 2023					
Installation Information												
Method of Implementation: Contractor Field Mod Team:: Installation Name: Avionics												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.588	- / -	- / -	- / -	0 / 0.000	6 / 0.588
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.395	- / -	- / -	0 / 0.000	6 / 0.395
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.195	- / -	0 / 0.000	10 / 0.195
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.748	0 / 0.000	14 / 0.748
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 1.404	26 / 1.404
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.588	6 / 0.395	10 / 0.195	14 / 0.748	26 / 1.404	62 / 3.330

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0528 / H-53 Series											Modification Number / Title: 7 / Correction of Deficiencies (OSIP 007-19)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code: 390														
Modification Item 1 of 1: Correction of Deficiencies (OSIP 007-19)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: Avionics																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	2	3	2	3	3	3	3	5	26	62
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	2	3	2	3	3	3	3	5	26	62
Method of Implementation: Contractor Mod Team:: Installation Name: Airframe																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.825	- / -	- / -	- / -	0 / 0.000	6 / 0.825																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.648	- / -	- / -	0 / 0.000	6 / 0.648																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.225	- / -	0 / 0.000	10 / 0.225																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.862	0 / 0.000	14 / 1.862																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 3.458	26 / 3.458																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.825	6 / 0.648	10 / 0.225	14 / 1.862	26 / 3.458	62 / 7.018																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	2	3	3	2	3	3	3	5	26	62
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	2	3	3	2	3	3	3	5	26	62

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0528 / H-53 Series										Modification Number / Title: 7 / Correction of Deficiencies (OSIP 007-19)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code: 390																
Modification Item 1 of 1: Correction of Deficiencies (OSIP 007-19)																															
Installation Information																															
Method of Implementation: Contractor Mod Team:: Installation Name: Propusion and Power																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.180	- / -	- / -	- / -	0 / 0.000	6 / 0.180																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.186	- / -	- / -	0 / 0.000	6 / 0.186																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.320	- / -	0 / 0.000	10 / 0.320																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.462	0 / 0.000	14 / 0.462																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.858	26 / 0.858																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.180	6 / 0.186	10 / 0.320	14 / 0.462	26 / 0.858	62 / 2.006																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	2	3	3	2	3	3	3	5	26	62
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	2	3	3	2	3	3	3	5	26	62
Method of Implementation (Organic): Reliability Improvements																				Installation Quantity: 8											
Method of Implementation (Organic): MRB Tip Core Deficiency																				Installation Quantity: 26											
Method of Implementation (Organic): Wheel & Brakes Deficiency																				Installation Quantity: 16											
Footnotes:																															
⁽¹³⁾ Specific ECPs performed each year will vary based on identified deficiencies.																															
⁽¹⁴⁾ Specific ECPs performed each year will vary based on identified deficiencies.																															
⁽¹⁵⁾ Specific ECPs performed each year will vary based on identified deficiencies.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 8 / CH-53K Production Upgrades (OSIP 008-19)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	8.022	0.000	8.022	11.956	4.661	3.086	5.139	2.206	35.070
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	8.022	0.000	8.022	11.956	4.661	3.086	5.139	2.206	35.070
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	8.022	0.000	8.022	11.956	4.661	3.086	5.139	2.206	35.070
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety and Improvement Program (OSIP) incorporates a number of retrofits into CH-53K Aircraft to common fleet configuration to address obsolescence issues and improve mission performance, reliability, maintainability and supportability. This OSIP incorporates cost effective changes to CH-53K systems to improve ready-based aircraft and ready- for-tasking rates. Improvements to maintenance and readiness degrader items will yield a more capable and survivable CH-53K to sustain warfighter capability in support of worldwide operations. Systems modified and improved on CH-53K aircraft will leverage common architectures and utilize existing technology to the maximum extent practicable to minimize development and procurement costs and to reduce the time to field the improved systems. Systems requiring modifications and improvements in the OSIP include: Heads-Up Display (HUD). ARC-210 Airborne Radio, GAU-21 gun/mount, known obsolescence issues in Flight Control Computer (FCC) chip/assemblies, and Fuel Shut-Off Valve. HUD improves safety and mission effectiveness by projecting essential flight symbology to enable both pilots to maintain their heads-up, eyes-out situational awareness. HUD is current capability in CH-53E and all other NVG compatible helicopters, which supports Expeditionary Maneuver Warfare (EMW) operational concepts including Operational Maneuver From the Sea (OMFTS), Sustained Operations Ashore (SOA), and Other Expeditionary Operations (OEO). Upgraded ARC-210 will address hardware obsolescence and cryptographic modernization issues found in the existing radio. GAU-21 efforts will incorporate structural improvements in the area in which the gun will be mounted, along with improving craning of ammunition cans and optimization of mounting brackets within the existing design of the aircraft. FCC efforts required in order to facilitate software upgrade/changes required to allow flight control computer to interface with FCC operating system and FCC operational flight plan capabilities. Fuel shut-off valve improvement is required in order to provide an upgraded/enhanced shut-off speed requirement in line with production aircraft, necessitating the upgrade of three (3) valves, fuel lines, and electrical systems. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: ADM signed for MS-C on 4 April 2017. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: The CH-53K Heavy Lift Helicopter will include 205 Helicopters: Three Engineering Development Model (EDM), six System Demonstration Test Articles (SDTA's) and 194 production aircraft. FY19 commences with required retrofits to upgrade the SDTA's and EDM aircraft to production configuration for delivery to the fleet. This is a FY19 New Start.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 8 / CH-53K Production Upgrades (OSIP 008-19)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53K			Modification Type: Mission Capability, Reliability, Safety					Related RDT&E PEs: 0604215N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CH-53K Production Upgrades (OSIP 008-19)													
A Kits													
Recurring													
1.1.1) Heads Up Display (HUD) - NonOrganic ⁽¹⁶⁾		- / -	- / -	- / -	6 / 0.153	- / -	6 / 0.153	6 / 0.153	- / -	- / -	- / -	- / -	12 / 0.306
1.1.2) ARC-210 Airborne Radio - NonOrganic ⁽¹⁷⁾		- / -	- / -	- / -	6 / 0.666	- / -	6 / 0.666	6 / 0.666	- / -	- / -	- / -	- / -	12 / 1.332
1.1.3) GAU-21 - Organic		- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.060	10 / 0.062	12 / 0.125	28 / 0.280	- / -	56 / 0.527
1.1.4) Flight Control Computer - Organic		- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.385	10 / 1.155	12 / 1.550	28 / 3.360	- / -	56 / 6.450
1.1.5) Fuel Shut-Off Valve - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.100	28 / 0.224	- / 0.766	40 / 1.090
Subtotal: Recurring		- / 0.000	- / -	- / -	- / 0.819	- / -	- / 0.819	- / 1.264	- / 1.217	- / 1.775	- / 3.864	- / 0.766	- / 9.705
Non-Recurring													
1.2.1) A KIT NRE - Organic		- / -	- / -	- / -	- / 3.957	- / -	- / 3.957	- / 5.147	- / 0.800	- / 0.748	- / 0.700	- / -	- / 11.352
Subtotal: Non-Recurring		- / 0.000	- / -	- / -	- / 3.957	- / -	- / 3.957	- / 5.147	- / 0.800	- / 0.748	- / 0.700	- / 0.000	- / 11.352
B Kits													
Recurring													
2.1.1) Heads Up Display (HUD) - Organic		- / -	- / -	- / -	6 / 0.561	- / -	6 / 0.561	6 / 0.561	- / -	- / -	- / -	- / -	12 / 1.122
2.1.2) ARC-210 Airborne Radio - Organic		- / -	- / -	- / -	6 / 2.220	- / -	6 / 2.220	6 / 2.220	- / -	- / -	- / -	- / -	12 / 4.440
Subtotal: Recurring		- / 0.000	- / -	- / -	- / 2.781	- / -	- / 2.781	- / 2.781	- / -	- / -	- / -	- / 0.000	- / 5.562
Subtotal: CH-53K Production Upgrades (OSIP 008-19)		- / -	- / -	- / -	24 / 7.557	- / -	24 / 7.557	36 / 9.192	20 / 2.017	36 / 2.523	84 / 4.564	- / 0.766	200 / 26.619
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / -	- / 7.557	- / -	- / 7.557	- / 9.192	- / 2.017	- / 2.523	- / 4.564	- / 0.766	- / 26.619
Support (All Modification Items)													
3.2) Data		- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.150	- / 0.130	- / 0.125	- / 0.128	- / 0.122	- / 0.755
3.3) ILS		- / -	- / -	- / -	- / 0.140	- / -	- / 0.140	- / 0.142	- / 0.115	- / 0.150	- / 0.153	- / 0.012	- / 0.712
3.4) Other Support		- / -	- / -	- / -	- / 0.225	- / -	- / 0.225	- / 0.240	- / 0.167	- / 0.288	- / 0.294	- / 1.306	- / 2.520
Subtotal: Support		- / 0.000	- / -	- / -	- / 0.465	- / -	- / 0.465	- / 0.532	- / 0.412	- / 0.563	- / 0.575	- / 1.440	- / 3.987
Installation													
Modification Item 1 of 1: CH-53K Production Upgrades (OSIP 008-19)		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2.232	- / 2.232	- / 0.000	- / 0.000	- / 0.000	- / 4.464
Subtotal: Installation		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.232	- / 2.232	- / -	- / -	- / 0.000	- / 4.464

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 8 / CH-53K Production Upgrades (OSIP 008-19)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CH-53K				Modification Type: Mission Capability, Reliability, Safety				Related RDT&E PEs: 0604215N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	8.022	0.000	8.022	11.956	4.661	3.086	5.139	2.206	35.070	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 8 / CH-53K Production Upgrades (OSIP 008-19)				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:				
Modification Item 1 of 1: CH-53K Production Upgrades (OSIP 008-19)												
Manufacturer Information												
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime (in Months): 3						Production Leadtime (in Months): 12						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jan 2019	Jan 2020								
Delivery Dates			Jan 2020	Jan 2021								
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime (in Months): 3						Production Leadtime (in Months): 12						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jan 2019	Jan 2020								
Delivery Dates			Jan 2020	Jan 2021								
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime (in Months): 4						Production Leadtime (in Months): 12						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jan 2019									
Delivery Dates			Jan 2020									
Installation Information												
Method of Implementation: Contractor Mod Team:: Installation Name: Heads Up Display (HUD)												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.792	- / -	- / -	- / -	0 / 0.000	6 / 0.792
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.792	- / -	- / -	0 / 0.000	6 / 0.792
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.792	6 / 0.792	- / -	- / -	0 / 0.000	12 / 1.584

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0528 / H-53 Series											Modification Number / Title: 8 / CH-53K Production Upgrades (OSIP 008-19)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: CH-53K Production Upgrades (OSIP 008-19)																															
Installation Information																															
Method of Implementation: Contractor Mod Team:: Installation Name: Heads Up Display (HUD)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	-	-	-	-	-	-	-	-	12
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	-	-	-	-	-	-	-	-	12
Method of Implementation: Contracator Mod Team:: Installation Name: ARC-210 Airborne Radio																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		6 / 1.440		- / -		- / -		- / -		0 / 0.000		6 / 1.440		6 / 1.440					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		6 / 1.440		- / -		- / -		0 / 0.000		6 / 1.440		6 / 1.440					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		- / -		- / -		- / -		6 / 1.440		6 / 1.440		- / -		- / -		0 / 0.000		12 / 2.880		12 / 2.880					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	-	-	-	-	-	-	-	-	12
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	-	-	-	-	-	-	-	-	12
Method of Implementation (Organic): GAU-21																							Installation Quantity: 56								
Method of Implementation (Organic): Flight Control Computer																							Installation Quantity: 56								

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / CH-53K Production Upgrades (OSIP 008-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: CH-53K Production Upgrades (OSIP 008-19)		
Installation Information		
Method of Implementation (Organic): Fuel Shut-Off Valve		Installation Quantity: 40
Method of Implementation (Organic): Heads Up Display (HUD)		Installation Quantity: 12
Method of Implementation (Organic): ARC-210 Airborne Radio		Installation Quantity: 12
Footnotes: ⁽¹⁶⁾ Specific ECPs performed each year will vary based on identified production upgrades. ⁽¹⁷⁾ Specific ECPs performed each year will vary based on identified production upgrades.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 9 / Archived OSIPS

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	633.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	633.840
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	633.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	633.840
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	633.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	633.840
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 9 / Archived OSIPS			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: H-53 Series				Modification Type: Various				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Archived OSIPS													
B Kits													
Recurring													
1.1.1) Inactive OSIPS - Organic	- / 633.840	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 633.840	
<i>Subtotal: Recurring</i>	- / 633.840	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 633.840	
<i>Subtotal: Archived OSIPS</i>	- / 633.840	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 633.840	
<i>Subtotal: Procurement, All Modification Items</i>	- / 633.840	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 633.840	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	633.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	633.840	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 9 / Archived OSIPS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Archived OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0530 / SH-60 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,102.603	122.900	110.715	130.661	4.858	135.519	156.874	168.347	127.694	128.416	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,102.603	122.900	110.715	130.661	4.858	135.519	156.874	168.347	127.694	128.416	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,102.603	122.900	110.715	130.661	4.858	135.519	156.874	168.347	127.694	128.416	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modifications to H-60 Series aircraft. The H-60 Series FY 2018 Inventory is comprised of: 11 HH-60H, 261 MH-60S, 270 MH-60R. The HH-60H is used for dedicated Special Operations Forces (SOF) Support and will be replaced by MH-60S in FY 19. Primary missions of the MH-60S include Surface Warfare, SOF Support, Personnel Recovery and Airborne Mine Countermeasures (AMCM). Additional missions include Combat Logistics, Vertical Replenishment, Search and Rescue and Airhead Operations. The primary missions of the MH-60R are Anti-Submarine Warfare, Electronic Warfare, and Surface Warfare. Secondary missions include Vertical Replenishment and Search and Rescue. The overall goal of the modifications budgeted is for the Safety Related Systems Upgrade, AMCM/Armed Helo (Correction of Deficiencies) for the MH-60S, Warfighter upgrades for the MH-60R, Warfighter upgrades for the MH-60S and H-60 Aircraft Obsolescence.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0530 / SH-60 Series			
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A									

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 009-03 SAFETY RELATED SYSTEM UPGRADE (SAFETY)				- / 67.956	- / 1.577	- / 2.768	- / 10.319	- / 0.000	- / 10.319
P-3a	2 / 016-04 ARMED HELO/AMCM (OPERATIONAL ENHANCEMENT)				- / 49.327	- / 0.099	- / 0.484	- / 0.247	- / 0.000	- / 0.247
P-3a	3 / 001-06 MH-60R WARFIGHTER (OPERATIONAL ENHANCEMENT, RELIABILITY)				- / 294.957	- / 82.346	- / 49.669	- / 34.837	- / 0.000	- / 34.837
P-3a	4 / 009-07 MH-60S WARFIGHTER (OPERATIONAL ENHANCEMENT)				- / 244.381	- / 32.760	- / 27.508	- / 42.683	- / 4.858	- / 47.541
P-3a	5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT (SUSTAINMENT)				- / 81.953	- / 6.118	- / 30.286	- / 42.575	- / 0.000	- / 42.575
P-3a	6 / Inactive OSIPs (TBD)				- / 364.029	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,102.603	- / 122.900	- / 110.715	- / 130.661	- / 4.858	- / 135.519

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 009-03 SAFETY RELATED SYSTEM UPGRADE (SAFETY)				- / 2.876	- / 3.958	- / 4.036	- / 4.416	Continuing	Continuing
P-3a	2 / 016-04 ARMED HELO/AMCM (OPERATIONAL ENHANCEMENT)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 50.157
P-3a	3 / 001-06 MH-60R WARFIGHTER (OPERATIONAL ENHANCEMENT, RELIABILITY)				- / 45.696	- / 42.840	- / 23.769	- / 21.032	Continuing	Continuing
P-3a	4 / 009-07 MH-60S WARFIGHTER (OPERATIONAL ENHANCEMENT)				- / 47.087	- / 43.747	- / 31.837	- / 31.040	Continuing	Continuing
P-3a	5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT (SUSTAINMENT)				- / 61.212	- / 77.801	- / 68.054	- / 71.929	Continuing	Continuing
P-3a	6 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 364.029
P-40	Total Gross/Weapon System Cost				- / 156.874	- / 168.347	- / 127.694	- / 128.416	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2019 funding request is required for critical safety, obsolescence, avionics, weapons and mission system modifications. The increase from FY 2018 to FY 2019 of \$24.8M supports critical safety modifications for MH-60S Gunner Seats, production ramp up of MH-60S Data Link/Full Motion Video (FMV) kits and Helmet Display Targeting System (HDTs) kits. The increase includes a net zero realignment from line item 0577 (Common Avionics) to support MH-60 R/S Advanced Data Transfer System (ADTS)/Moving Map Integration (MMI) kit procurements and MH-60 R/S Mission Computer (MC)/Flight Management Computer (FMC) kit procurements.

The FY 2019 funding request was reduced by \$0.954M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

OCO:

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0530 / SH-60 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
FY 2019 OCO funding required for Distributed Aperture Infrared Countermeasures (DAIRCM) Joint Urgent Operational Needs (JUONS).		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series						Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	67.956	1.577	2.768	10.319	0.000	10.319	2.876	3.958	4.036	4.416	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	67.956	1.577	2.768	10.319	0.000	10.319	2.876	3.958	4.036	4.416	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	67.956	1.577	2.768	10.319	0.000	10.319	2.876	3.958	4.036	4.416	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Safety Related Systems Upgrade funds modifications to improve the safety of operating H-60 Series aircraft in all operations. In addition to those modifications specifically cited below, this Operational Safety Improvement Program provides the vehicle to expeditiously fund and correct H-60 Series engine, airframe and avionics safety-related deficiencies (Hazard Risk Index 1-20). Future modifications will include modification of rotor damper bearings with elastomeric bearings leading to increased component life, replacing the current non-locking rescue hook with a locking rescue hook to improve safety, mandated controlled-flight-into-terrain (CFIT) avoidance systems, mandated mid-air-collision avoidance capabilities (MCAC), mandated crash data recording capabilities, improved tail gear box bevel gear mesh patterns to reduce catastrophic damage under increased load conditions, and MH-60S gunner seats. Areas of potential OSIP modifications being investigated for future improvements include: 1) Power & Propulsion systems/Engines (gearboxes, Auxiliary Power Unit (APU), T700, rotors, fuel systems, and dampers), 2) Aircrew Survivability (integration for seating, harness, hearing), and Safety issues (integration for Landing Gear, Instrument/Navigation, Fuel, Electrical/Wiring, Guns, Weapons, Dynamic Flight Control Components, Mission Computers, Advanced Flight Control Computer (AFCS), Radar Altimeter (RADALT), Crash Worthy Seating, Emergency Lighting, and Hydraulic systems) and 3) Airframe/Avionics (soundproofing, landing gear, and rescue hoist, cockpit lighting/searchlights, and Airborne Low Frequency Sonar (ALFS)). Additionally, the safety modifications include aircraft avionics and mission systems that enable for overland operations in degraded visual flight environments (DVE) that are associated with unimproved terrain, both day and night, and in all weather conditions. This includes terrain avoidance warning systems, precision overland navigation awareness displays, enhanced radar laser detection systems for obstacle and power line avoidance, and additional developmental items that pertain to operations in degraded visual environments. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The H-60 series currently has 35 active Safety Action Records being monitored across all H-60 series aircraft. As solutions become available the aircraft modifications will be implemented. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 009-03 baseline funding increases by \$7.5M (272.8%) from FY 2018 to FY 2019 due to the procurement of critical MH-60S Gunner Seats to reduce or eliminate the detrimental impacts to the health, preservation and well being of the aircrew. Current Active Modifications: 1. T700 Engine; 2. Aircrew Survivability Kits; 3. Airframe Safety Kits; 4. Tail Gearbox Sight Gauges; 5. Infrared (IR) Fire Detectors [OTHER SUPPORT] Cost element 3.5 (Other Support) funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate safety modifications on the MH-60R/S aircraft.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: HH-60H, MH-60R, MH-60S				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 009-03 SAFETY RELATED SYSTEM UPGRADE													
A Kits													
Recurring													
1.1.1) SH-60 Series Archived ECPs - Organic	- / 28.686	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.686	
1.1.2) T700 Engine - Organic	71 / 0.140	- / -	12 / 0.267	12 / 0.271	- / -	12 / 0.271	50 / 1.411	50 / 1.439	50 / 1.467	50 / 1.621	922 / 29.866	1,217 / 36.482	
1.1.3) Aircrew Survivability Kits - Organic	- / 0.061	- / -	2 / 0.334	2 / 0.341	- / -	2 / 0.341	2 / 0.347	4 / 0.709	4 / 0.723	4 / 0.798	434 / 90.891	452 / 94.204	
1.1.4) Airframe Safety Kits - Organic	- / -	- / -	2 / 0.221	2 / 0.226	- / -	2 / 0.226	4 / 0.658	8 / 1.341	8 / 1.368	8 / 1.511	412 / 88.650	444 / 93.975	
1.1.5) Tail Gearbox Sight Guages - Organic	- / -	183 / 0.403	183 / 0.411	183 / 0.419	- / -	183 / 0.419	- / -	- / -	- / -	- / -	- / -	549 / 1.233	
1.1.6) Fire Detectors - Organic	- / -	900 / 1.009	875 / 1.090	875 / 1.112	- / -	875 / 1.112	- / -	- / -	- / -	- / -	- / -	2,650 / 3.211	
1.1.7) MH-60S Gunner Seats - Organic	- / -	- / -	- / -	119 / 7.497	- / -	119 / 7.497	- / -	- / -	- / -	- / -	- / -	119 / 7.497	
Subtotal: Recurring	- / 28.887	- / 1.412	- / 2.323	- / 9.866	- / -	- / 9.866	- / 2.416	- / 3.489	- / 3.558	- / 3.930	- / 209.407	- / 265.288	
Non-Recurring													
1.2.1) INSTALLATION KITS N/R - Organic	- / 9.588	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.588	
Subtotal: Non-Recurring	- / 9.588	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 9.588	
B Kits													
Recurring													
2.1.1) Archived ECPs - Organic	927 / 7.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	927 / 7.633	
Subtotal: Recurring	- / 7.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 7.633	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 3.148	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.148	
Subtotal: Non-Recurring	- / 3.148	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.148	
Subtotal: 009-03 SAFETY RELATED SYSTEM UPGRADE	998 / 49.256	1,083 / 1.412	1,074 / 2.323	1,193 / 9.866	- / -	1,193 / 9.866	56 / 2.416	62 / 3.489	62 / 3.558	62 / 3.930	1,768 / 209.407	6,358 / 285.657	
Subtotal: Procurement, All Modification Items	- / 49.256	- / 1.412	- / 2.323	- / 9.866	- / -	- / 9.866	- / 2.416	- / 3.489	- / 3.558	- / 3.930	- / 209.407	- / 285.657	
Support (All Modification Items)													
3.1) SAFETY RELATED ECO	- / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.030	
3.2) DATA	- / 1.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.670	
3.3) TRAINING EQUIPMENT	- / 0.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.429	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: HH-60H, MH-60R, MH-60S				Modification Type: SAFETY					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
3.4) ILS	- / 0.981	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.981	
3.5) OTHER SUPPORT	- / 15.590	- / 0.165	- / 0.445	- / 0.453	- / -	- / 0.453	- / 0.460	- / 0.469	- / 0.478	- / 0.486	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 18.700	- / 0.165	- / 0.445	- / 0.453	- / -	- / 0.453	- / 0.460	- / 0.469	- / 0.478	- / 0.486	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	67.956	1.577	2.768	10.319	0.000	10.319	2.876	3.958	4.036	4.416	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 009-03 SAFETY RELATED SYSTEM UPGRADE		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	49.327	0.099	0.484	0.247	0.000	0.247	0.000	0.000	0.000	0.000	0.000	50.157
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	49.327	0.099	0.484	0.247	0.000	0.247	0.000	0.000	0.000	0.000	0.000	50.157
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	49.327	0.099	0.484	0.247	0.000	0.247	0.000	0.000	0.000	0.000	0.000	50.157
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Based on Developmental and Operational Testing, Fleet aircraft require modifications to correct identified deficiencies incorporated in production aircraft. These modifications include corrections to Night Vision Device Exterior Lighting and Airborne Mine Countermeasures (AMCM) Mission Equipment. Current retrofit plan includes AMCM Mission Equipment which are not procured on a one-for-one basis with the A kit modifications. No install is required. Night Vision Device Capable Aircraft Lighting will be retrofitted on 134 Aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The MH-60S aircraft completed Operational Evaluation in March 2002; Milestone III was completed 12 August 2002.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 016-04 baseline funding decreases by \$.2M (48.9%) from FY 2018 to FY 2019. Funding in FY 2019 is the final year of funding for this OSIP. Funding for Night Vision device installation and associated support is required as a result of aircraft availability.

[Other Support] Cost element 3.6 (Other Support) funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate the Armed Helo/AMCM modifications.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH-60S				Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 016-04 ARMED HELO/AMCM													
A Kits													
Recurring													
1.1.1) Archived ECPs - Organic		- / 33.117	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 33.117	
1.1.2) Night Vision Device (NVD) Kits - NonOrganic ⁽¹⁾		134 / 5.548	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	134 / 5.548	
Subtotal: Recurring		- / 38.665	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 38.665	
Non-Recurring													
1.2.1) Installations Kits N/R - Organic		- / 4.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.205	
Subtotal: Non-Recurring		- / 4.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.205	
B Kits													
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 0.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.395	
2.2.2) Non-Recurring AMCM Correction of Deficiencies - Organic		- / -	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
Subtotal: Non-Recurring		- / 0.395	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.595	
Subtotal: 016-04 ARMED HELO/AMCM		134 / 43.265	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	134 / 43.465	
Subtotal: Procurement, All Modification Items		- / 43.265	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 43.465	
Support (All Modification Items)													
3.1) Engineering Change Orders		- / -	- / 0.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.099	
3.2) Data		- / 0.488	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.488	
3.3) Training Equipment		- / 0.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.099	
3.5) ILS		- / 0.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.053	
3.6) Other Support		- / 2.209	- / -	- / 0.099	- / 0.099	- / -	- / 0.099	- / -	- / -	- / -	- / -	- / 2.407	
Subtotal: Support		- / 2.849	- / 0.099	- / 0.099	- / 0.099	- / -	- / 0.099	- / -	- / -	- / -	- / 0.000	- / 3.146	
Installation													
Modification Item 1 of 1: 016-04 ARMED HELO/AMCM		- / 3.213	- / 0.000	- / 0.185	- / 0.148	- / 0.000	- / 0.148	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.546	
Subtotal: Installation		- / 3.213	- / -	- / 0.185	- / 0.148	- / -	- / 0.148	- / -	- / -	- / -	- / 0.000	- / 3.546	
Total													
Total Cost (Procurement + Support + Installation)		49.327	0.099	0.484	0.247	0.000	0.247	0.000	0.000	0.000	0.000	50.157	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series										Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM																
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 016-04 ARMED HELO/AMCM																															
Manufacturer Information																															
Manufacturer Name: NVD Lighting--Contractor Field Mod Team													Manufacturer Location: New MFG-Loc																		
Administrative Leadtime (in Months): 1													Production Leadtime (in Months): 1																		
Dates	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Contract Dates																															
Delivery Dates																															
Manufacturer Name: AMCM--Contractor Field Team													Manufacturer Location: New MFG - Loc																		
Administrative Leadtime (in Months): 0													Production Leadtime (in Months): 8																		
Dates	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: Night Vision Device (NVD) Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		125 / 3.213	- / -	5 / 0.185	4 / 0.148	0 / 0.000	4 / 0.148	- / -	- / -	- / -	- / -	0 / 0.000	134 / 3.546																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		125 / 3.213	- / -	5 / 0.185	4 / 0.148	0 / 0.000	4 / 0.148	- / -	- / -	- / -	- / -	0 / 0.000	134 / 3.546																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	125	-	-	-	-	1	1	1	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134
Out	125	-	-	-	-	1	1	1	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: (1) Cost element 1.1.2 (Night Vision Device) procured kits will not be installed until FY 2018 due to unforeseen fleet unavailability for required Planned Maintenance Interval (PMI) to complete installation.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	294.957	82.346	49.669	34.837	0.000	34.837	45.696	42.840	23.769	21.032	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	294.957	82.346	49.669	34.837	0.000	34.837	45.696	42.840	23.769	21.032	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	294.957	82.346	49.669	34.837	0.000	34.837	45.696	42.840	23.769	21.032	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The MH-60R provides warfighting effectiveness in the primary mission areas of Anti-Submarine Warfare, Electronic Warfare, and Surface Warfare, including fast attack craft/fast in-shore attack craft (FAC/FIAC) threat response. Secondary MH-60R mission areas include search and rescue, vertical replenishment, naval surface fire support, logistics support, naval special warfare, strike warfare, personnel transport, and medical evacuation. This OSIP funds modifications to the MH-60R Series aircraft to include airframe structures, avionics and mission systems. The modifications are part of the Pre-Planned Product Improvement (P3I) effort that includes upgrades to communication, navigation, Identification Friend or Foe (IFF), Link-16, Automatic Radar Periscope Detection and Discriminator (ARPDD), Common Data Link (CDL) Hawklink, Integrated Mechanical Diagnostic System (IMDS), Active Vibration Control, Advanced Data Transfer System (ADTS), Moving Map Integration, weapons, Aircraft Ship Integrated Secure and Traverse (ASIST) for LRIP I and subsequent aircraft. The PAR is the only precision approach available to the MH-60R and is slated to be replaced by Joint Precision Approach Landing System (JPALS). Additionally, Very high frequency Omnidirectional Radio range (VOR) navigation capability included with the ILS system provides instrument navigation after disestablishment of Tactical Air Command and Navigation system in the Continental United States. Instrument Landing System (ILS) provides precision approach capability ashore and to supplement currently available Precision Approach Radar (PAR) controlled approaches. Aircraft Ship Integrated Secure and Traverse System (ASIST) provides an integrated means to secure the MH-60R upon landing on ASIST equipped ships and securely traverse the aircraft into the hangar. As DDG 1000 is being equipped with ASIST, MH-60Rs will need to be modified with the ASIST aircraft components to allow full functioning of the ASIST system. CDL Hawklink is an update to the current C-Band Hawklink that allows for an increase in bandwidth with the ability to transfer additional data. MH-60R is required to be backward-compatible with both legacy Surface Fleet Combat Systems and forward-compatible with new and under-development Surface Fleet Combat Systems at relatively long-range of not only voice and video information, but large amounts of sensor and tactical data. It is compliant with the Assistant Secretary of Defense C3I Letter dated 18 October 2004 directing commonality and interoperability between all Department of Defense airborne sensor platforms and meets the mandate for a common standard for transmission of unprocessed sensor information. The current AN/APS-147 Multi-Mode Radar (MMR) requires an initial upgrade prior to incorporating the ARPDD functionality. ARPDD provides the MH-60R the capability to detect very small, low visibility targets, such as periscopes and small vessels, and alert the aircrew to their presence from long distances, reducing aircrew workload and increasing battle group survivability. The AN/APS-153 MMR consists of the Signal Data Processor/ARPDD Enhanced Processor, Receiver Transmitter (R/T), Antenna Pedestal, Antenna Array, and IFF R/T retrofits. Retrofits to the IFF R/T will provide Mode 5 interrogation capability. The ADTS provides high-capacity storage and transfer of data with multi-level security enabling moving map integration and replacing obsolete components.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
The Acoustic Subsystem is a key component to meeting MH-60R Anti-Submarine Warfare mission requirements. This Operational Safety Improvement Program (OSIP) includes updates to obsolete components of the Acoustic Subsystem. The Acoustic Subsystem consists of Acoustic Processor, Airborne Low Frequency Sonar (ALFS) Transmitter/Receiver, Reeling Machines, Reeling Machine Interface Unit, Reeling Machine Control Unit, Transducer Assembly, and reel & cable. Night Vision Device improvements will incorporate enhancements to the Thunderstorm Light, ALFS Light, Recovery, Assist, Securing, and Traversing Panel, and Search Light. The MH-60R/ALFS is the primary ASW sensor in the Carrier Strike Group. ALFS component failure rates have depleted the spares inventory, impacting deployed and non-deployed readiness, including the ability to support concurrent MH-60R deployments. ALFS reliability improvement efforts include but are not limited to the following: (1) Reeling machine sonar cable monitoring system to allow for immediate clearing of cable miswraps prior to cable damage, (2) Sonar Transmitter Receiver upgrade to provide cable uplink dynamic equalizer to increase overall usable life of the sonar cable, (3) Transducer Assembly reliability improvement: Hydraulic Motor and stave retention, and (4) Reeling Machine locking device limit switches and aux electric motor power relay. Initial Cadre training will be needed as required per modification. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Automatic Radar Periscope Detection and Discriminator (ARPDD) capability was approved with CPD 260-05 dated 28 November 2005. CDR was completed April 2009. Milestones include contractor test completed in December 2010, developmental test completed in December 2011, and operational test started in July 2012. METHOD OF IMPLEMENTATION: ARPDD and ADTS/MMI are "O" Level Installs. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 001-06 baseline funding decreases \$14.8M (29.9%) from FY 2018 to FY 2019 due to ARPDD B Kit retrofit procurements ending in FY 2018. FY 2018 to FY 2019 increases include a ramp up in VOR/ILS retrofit kits and installs, commencement of ASIST kit procurements and commencement of ADTS/MMI kit procurements and installs. [ALFS Reliability Improvements] Cost element 2.1.2 (ALFS Reliability) efforts contain different quantities and scope each year resulting in overall cost variability. [ARPDD O&A] ARPDD Over & Above requirements occur approximately two years after B kit procurement. Increase from FY 2018 to FY 2019 is due to the B kit procurement increase from FY 2016 (19) to FY 2017 (39). [TRAINING EQUIPMENT] Cost element 3.3 (Training Equipment) FY 2019 thru FY 2021 funding is required for System Configuration 18 and ADTS/MMI trainer modifications. [OTHER SUPPORT] Cost element 3.6 (Other Support) funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate the modifications on the MH-60R aircraft. Cost element increases from FY 2018 to FY 2019 due to increase in ADTS/MMI efforts.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH-60R			Modification Type: OPERATIONAL ENHANCEMENT, RELIABILITY					Related RDT&E PEs: 0604216N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER													
A Kits													
Recurring													
1.1.1) ARCHIVED ECPs - Organic		- / 113.188	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 113.188	
1.1.2) VOR INSTRUMENT LANDING SYSTEM (ILS) - NonOrganic		- / -	17 / 2.100	22 / 2.640	40 / 4.799	- / -	40 / 4.799	20 / 2.400	20 / 2.400	20 / 2.400	16 / 1.920	271 / 32.779	
1.1.3) ASIST - NonOrganic		- / -	- / -	- / -	4 / 0.620	- / -	4 / 0.620	5 / 0.790	- / -	- / -	- / -	9 / 1.410	
1.1.4) ADTS/MMI Kit - NonOrganic		45 / 4.194	- / -	- / -	40 / 2.600	- / -	40 / 2.600	50 / 3.315	50 / 3.381	20 / 1.380	14 / 0.985	242 / 17.506	
Subtotal: Recurring		- / 117.382	- / 2.100	- / 2.640	- / 8.019	- / -	- / 8.019	- / 6.505	- / 5.781	- / 3.780	- / 2.905	- / 164.883	
Non-Recurring													
1.2.1) CDL HAWKLINK NRE - Organic		- / 0.704	- / 0.275	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.979	
1.2.2) Installation Equipment N/R - Organic		- / 1.542	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.542	
Subtotal: Non-Recurring		- / 2.246	- / 0.275	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.521	
B Kits													
Recurring													
2.1.1) APRDD KIT - Organic		74 / 107.347	39 / 65.138	17 / 33.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	130 / 206.096	
2.1.2) ALFS Reliability Improvements - Organic		322 / 5.676	- / -	60 / 0.600	60 / 0.600	- / -	60 / 0.600	40 / 3.170	40 / 2.884	- / -	- / -	522 / 12.930	
2.1.3) ADTS/MMI RME Kit - Organic		45 / 7.840	- / -	- / -	40 / 9.470	- / -	40 / 9.470	50 / 12.074	50 / 12.316	20 / 5.025	14 / 3.588	242 / 56.325	
Subtotal: Recurring		- / 120.863	- / 65.138	- / 34.211	- / 10.070	- / -	- / 10.070	- / 15.244	- / 15.200	- / 5.025	- / 3.588	- / 275.351	
Non-Recurring													
2.2.2) ARPDD O&A - Organic		- / 10.295	- / 1.994	- / 1.612	- / 2.073	- / -	- / 2.073	- / 2.114	- / -	- / -	- / -	- / 18.088	
2.2.3) ALFS Reliability NRE - Organic		- / 0.472	- / 1.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.022	
Subtotal: Non-Recurring		- / 10.767	- / 3.544	- / 1.612	- / 2.073	- / -	- / 2.073	- / 2.114	- / -	- / -	- / 0.000	- / 20.110	
Subtotal: 001-06 MH-60R WARFIGHTER		486 / 251.258	56 / 71.057	99 / 38.463	184 / 20.162	- / -	184 / 20.162	165 / 23.863	160 / 20.981	60 / 8.805	44 / 6.493	1,416 / 462.865	
Subtotal: Procurement, All Modification Items		- / 251.258	- / 71.057	- / 38.463	- / 20.162	- / -	- / 20.162	- / 23.863	- / 20.981	- / 8.805	- / 6.493	- / 462.865	
Support (All Modification Items)													
3.1) ENGINEERING CHANGE ORDERS		- / 2.461	- / 0.388	- / 0.404	- / 0.412	- / -	- / 0.412	- / 0.420	- / 0.428	- / 0.437	- / 0.446	- / 1.391	
3.2) DATA		- / 0.682	- / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.712	
3.3) TRAINING EQUIPMENT		- / -	- / 0.500	- / 0.500	- / 0.601	- / -	- / 0.601	- / 7.132	- / 4.327	- / 0.414	- / 0.421	- / 38.327	
3.4) SUPPORT EQUIPMENT		- / 0.163	- / 0.600	- / 0.612	- / 0.624	- / -	- / 0.624	- / 0.636	- / 0.649	- / 0.661	- / 0.673	- / 1.888	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH-60R				Modification Type: OPERATIONAL ENHANCEMENT, RELIABILITY				Related RDT&E PEs: 0604216N					

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.5) ILS	- / 4.423	- / 2.781	- / 2.969	- / 2.720	- / -	- / 2.720	- / 2.468	- / 2.538	- / 2.732	- / 2.834	Continuing	Continuing
3.6) OTHER SUPPORT	- / 33.395	- / 6.990	- / 6.721	- / 6.838	- / -	- / 6.838	- / 6.958	- / 7.080	- / 6.778	- / 7.079	Continuing	Continuing
3.7) INTERIM CONTRACTOR SUPPORT	- / 2.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.575
<i>Subtotal: Support</i>	- / 43.699	- / 11.289	- / 11.206	- / 11.195	- / -	- / 11.195	- / 17.614	- / 15.022	- / 11.022	- / 11.453	- / 39.606	- / 66.802
Installation												
Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER	- / 0.000	- / 0.000	- / 0.000	- / 3.480	- / 0.000	- / 3.480	- / 4.219	- / 6.837	- / 3.942	- / 3.086	- / 21.749	- / 43.313
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 3.480	- / -	- / 3.480	- / 4.219	- / 6.837	- / 3.942	- / 3.086	- / 21.749	- / 43.313
Total												
Total Cost (Procurement + Support + Installation)	294.957	82.346	49.669	34.837	0.000	34.837	45.696	42.840	23.769	21.032	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:				
Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER												
Manufacturer Information												
Manufacturer Name: ADTS/MMI--Sikorsky Aircraft Corp						Manufacturer Location: Stratford, CT						
Administrative Leadtime (in Months): 3						Production Leadtime (in Months): 3						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jan 2019									
Delivery Dates			Apr 2019									
Manufacturer Name: VOR/ILS--Lockheed Martin						Manufacturer Location: Owego, NY						
Administrative Leadtime (in Months): 18						Production Leadtime (in Months): 10						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Mar 2018	Mar 2019	Mar 2020									
Delivery Dates	Jan 2019	Jan 2020	Jan 2021									
Manufacturer Name: ASIST--Indal Technologies						Manufacturer Location: Ontario, Canada						
Administrative Leadtime (in Months): 5						Production Leadtime (in Months): 6						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Mar 2019									
Delivery Dates			Sep 2019									
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime (in Months): 0						Production Leadtime (in Months): 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Contractor Field Mod Team:: Installation Name: VOR INSTRUMENT LANDING SYSTEM (ILS)												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	17 / 2.380	0 / 0.000	17 / 2.380	- / -	- / -	- / -	- / -	0 / 0.000	17 / 2.380
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.080	- / -	- / -	- / -	0 / 0.000	22 / 3.080
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 5.600	- / -	- / -	0 / 0.000	40 / 5.600
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.800	- / -	0 / 0.000	20 / 2.800

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: VOR INSTRUMENT LANDING SYSTEM (ILS)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.800	0 / 0.000	20 / 2.800																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.800	20 / 2.800																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 2.240	16 / 2.240																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	116 / 16.240	116 / 16.240																		
Total		- / -	- / -	- / -	17 / 2.380	0 / 0.000	17 / 2.380	22 / 3.080	40 / 5.600	20 / 2.800	20 / 2.800	152 / 21.280	271 / 37.940																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	7	7	3	-	8	7	7	-	14	13	13	-	7	7	6	-	7	7	6	152	271
Out	-	-	-	-	-	-	-	-	-	-	7	7	3	-	8	7	7	-	14	13	13	-	7	7	6	-	7	7	6	152	271
Method of Implementation: Contractor Field Mod Team:: Installation Name: ASIST																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.201	- / -	- / -	- / -	0 / 0.000	4 / 0.201																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.257	- / -	- / -	0 / 0.000	5 / 0.257																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.201	5 / 0.257	- / -	- / -	0 / 0.000	9 / 0.458																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0530 / SH-60 Series											Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: ASIST																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	3	2	-	-	-	-	-	-	-	-	-	-	-	9
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	3	2	-	-	-	-	-	-	-	-	-	-	-	9
Method of Implementation: Contractor Field Mod Team:: Installation Name: ADTS/MMI Kit																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		45 / 0.900		0 / 0.000		45 / 0.900		- / -		- / -		- / -		- / -		0 / 0.000		45 / 0.900							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		10 / 0.200		0 / 0.000		10 / 0.200		30 / 0.612		- / -		- / -		- / -		0 / 0.000		40 / 0.812							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		16 / 0.326		34 / 0.694		- / -		- / -		0 / 0.000		50 / 1.020							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		14 / 0.286		36 / 0.734		- / -		0 / 0.000		50 / 1.020							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		20 / 0.408		- / -		0 / 0.000		20 / 0.408							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		14 / 0.286		0 / 0.000		14 / 0.286							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		23 / 0.469		23 / 0.469							
Total		- / -		- / -		- / -		55 / 1.100		0 / 0.000		55 / 1.100		46 / 0.938		48 / 0.980		56 / 1.142		14 / 0.286		23 / 0.469		242 / 4.915							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	23	22	10	-	15	15	16	-	17	17	14	-	18	28	10	-	-	4	10	-	23	242
Out	-	-	-	-	-	-	-	-	-	23	22	10	-	15	15	16	-	17	17	14	-	18	28	10	-	-	4	10	-	23	242
Method of Implementation (Organic): APRDD KIT																															
																							Installation Quantity: 130								
Method of Implementation (Organic): ALFS Reliability Improvements																															
																							Installation Quantity: 522								

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER		
Installation Information		
Method of Implementation (Organic): ADTS/MMI RME Kit - Not Installed		Installation Quantity: 242

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER			
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	244.381	32.760	27.508	42.683	4.858	47.541	47.087	43.747	31.837	31.040	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	244.381	32.760	27.508	42.683	4.858	47.541	47.087	43.747	31.837	31.040	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	244.381	32.760	27.508	42.683	4.858	47.541	47.087	43.747	31.837	31.040	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The basic MH-60S conducts search and rescue, vertical replenishment, and airhead operations. Armed Helicopter and Airborne Mine Countermeasures (AMCM) have been added as primary mission areas for the MH-60S as block upgrades to the platform. Armed Helicopter upgrades provide Surface Warfare and Maritime Interdiction Operations capability to address Fast Attack Craft / Fast In-shore Attack Craft (FAC/FIAC) threat, as well as Special Warfare Support and Combat Search and Rescue. AMCM provides the Littoral Combat Ship with the airborne portion of the Mine Countermeasures Mission Package. MH-60S secondary roles include torpedo and drone recovery, noncombatant evacuation operations, and Sea Air Land (SEAL) team and Explosive Ordnance Disposal support.

This Operational Safety Improvement Program (OSIP) funds modifications to the MH-60S series airframe structures, avionics and mission systems, and provides for the retrofit of aircraft, trainers, and support equipment. Armed Helo Block 3A includes airframe provisions, removable mission kits, and trainer updates into Block 3A aircraft to provide capability against the FAC/FIAC threat and support Naval Special Warfare, and includes the following systems: Fixed Forward Firing Weapons (FFFW) guns and rockets, Helmet Display Targeting System (HDTs), and Full Motion Video capable Data Link.

ECP 4034 includes airframe provisions, communication upgrades, and trainer updates in two phases: AMCM and Block 3B Armed Helo Pre-Planned Product Improvement (P3I). AMCM includes integration of Airborne Mine Neutralization System and Airborne Laser Mine Detection System. Armed Helo Block 3B Full P3I effort includes: Link-16, Selective Availability Anti-Spoofing Module (SAASM), Global Positioning System (GPS) Antenna System-1 (GAS-1), Aircraft Personality Control Module (APCM), Identification Friend or Foe (IFF) Mode S and Mode 5, Advanced Data Transfer System, Moving Map Integration (ADTS/MMI) and Mixed Loads Enhanced Targeting Capability (MLETC) with HDTs. Partial P3I includes Communications Upgrades only on Block 1 aircraft.

ECP 4046 includes airframe provisions for Active Vibration Control (AVC) and Downed Aviator Locator System (DALS) in all Block 3 aircraft. In FY 2017 AVC was de-scoped from this effort and the new ECP number is ECP H-60-111.

ECP 4039 is required to accommodate aircraft structural loads imposed by the addition of the AMCM and Block 3 Armed Helo capabilities. It also includes retrofit of Integrated Mechanical Diagnostics System (IMDS) in all MH-60S aircraft for vibration and component health usage monitoring. In addition, IMDS includes a crash survivable flight data recorder capability as well as providing capabilities required for transition to Condition Based Maintenance (CBM).

Funding also supports the modifications to the H-60 series aircraft in support of Fleet operations for in-country / overland missions is support of Special Operations Command. The modifications will protect the aircraft by improving Aircraft Survivability Equipment (ASE) to pace the threat from the latest Surface to Air Weapons and from physical damage due to the operational environment in order to increase reliability, maintainability and /or mission capability for the conduct of in-country / overland missions. Navy Special Operation Forces (SOF) fly joint missions with the Special Operations Command requiring commonality with Joint Forces.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
OCO funding will support the modifications to the H-60 series aircraft that operate in the CENTCOM area of responsibility to incorporate a Distributed Aperture Infrared Countermeasure (DAIRCM) capability in order to fulfill a CENTCOM JUONS for improved Missile Warning (MW) Aircraft Survivability Equipment (ASE) with an inexhaustible countermeasure capability to pace the threat from the latest Surface to Air Weapons due to the operational environment. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The MH-60S Aircraft completed Milestone III in August 2002. Armed Helo achieved Initial Operational Capability (IOC) in June 2007. IMDS and P3I achieved IOC in December 2009. AMCM: Initial Operational Test & Evaluation (IOT&E) extended to complete by FY 2021 for Littoral Combat Ship. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 009-07 baseline funding increases \$15.2M (55.2%) from FY 2018 to FY 2019 due to commencement of ADTS/MMI effort, ramp up of Data Link/FMV kit procurement, HDTS procurement and training equipment requirements. [Training Equipment] Cost element 3.3 (Training Equipment) FY 2019 thru FY 2021 funding is required for System Configuration 18 and ADTS/MMI trainer modifications. [Other Support] Cost element 3.6 (Other Support) funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate the modifications on the MH-60S aircraft.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH-60S			Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs: 0604216N						
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER													
A Kits													
Recurring													
1.1.1) ARCHIVED ECPs - Organic		- / 88.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 88.506	
1.1.2) ECP 4034 Block 2B/Block 3B Full P3I - NonOrganic		66 / 12.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 12.383	
1.1.3) ECP 4039 - NonOrganic		90 / 10.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 10.314	
1.1.4) ECP 4046 AVC/DALS - NonOrganic		33 / 5.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 5.604	
1.1.5) Integrated Mechanical Diagnostics Systems (IMDS) - NonOrganic		164 / 21.532	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	164 / 21.532	
1.1.6) Data Link/FMV A Kit - NonOrganic		- / 0.383	- / -	7 / 1.860	14 / 3.795	- / -	14 / 3.795	22 / 6.083	20 / 5.640	20 / 5.753	19 / 5.574	216 / 65.137	
1.1.7) ECP 4057 Lower Anti-Collision Fix - Organic		261 / 0.669	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	261 / 0.669	
1.1.8) HDTS A Kit - NonOrganic		24 / 0.971	18 / 1.597	18 / 0.674	26 / 0.992	- / -	26 / 0.992	18 / 0.700	30 / 1.191	30 / 1.215	24 / 0.991	31 / 1.306	
1.1.9) ADTS/MMI Kits - NonOrganic		- / 0.165	- / -	- / -	30 / 1.950	- / -	30 / 1.950	50 / 3.315	37 / 2.503	24 / 1.656	30 / 2.111	43 / 4.063	
1.1.10) DAIRCM - NonOrganic		- / -	14 / 2.190	6 / 2.958	- / 0.000	6 / 2.958	6 / 2.958	- / -	- / -	- / -	- / -	26 / 8.106	
1.1.11) ECP H60-111 DALs - NonOrganic		- / -	18 / 0.265	20 / 0.374	20 / 0.374	- / -	20 / 0.374	5 / 0.093	- / -	- / -	- / -	63 / 1.106	
Subtotal: Recurring		- / 140.527	- / 4.052	- / 5.866	- / 7.111	- / 2.958	- / 10.069	- / 10.191	- / 9.334	- / 8.624	- / 8.676	- / 41.418	
Non-Recurring													
1.2.1) Data Link/FMV NRE - Organic		- / -	- / 1.894	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.894	
1.2.2) Installation Kits N/R - Organic		- / 28.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.575	
1.2.3) DAIRCM NRE - Organic		- / -	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	
Subtotal: Non-Recurring		- / 28.575	- / 1.944	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 30.519	
B Kits													
Recurring													
2.1.1) Data Link/FMV RME - Organic		- / -	- / -	4 / 0.975	7 / 1.898	- / -	7 / 1.898	12 / 2.786	11 / 2.634	10 / 2.509	10 / 2.602	66 / 22.399	
2.1.2) HDTS RME - Organic		26 / 7.901	12 / 3.894	12 / 3.429	26 / 7.578	- / -	26 / 7.578	12 / 3.567	24 / 7.277	8 / 2.474	- / -	120 / 36.120	
2.1.3) HDTS Helmet Tracker (HTK) - Organic		100 / 5.668	24 / 0.770	48 / 1.569	100 / 3.335	- / -	100 / 3.335	48 / 1.633	48 / 1.665	48 / 1.699	36 / 1.300	28 / 1.031	
2.1.4) ADTS/MMI RME Kit - Organic		- / -	- / -	- / -	30 / 7.040	- / -	30 / 7.040	50 / 11.968	37 / 9.033	24 / 5.976	30 / 7.620	43 / 14.379	
Subtotal: Recurring		- / 13.569	- / 4.664	- / 5.973	- / 19.851	- / -	- / 19.851	- / 19.954	- / 20.609	- / 12.658	- / 11.522	- / 37.809	
Non-Recurring													
2.2.2) Installation Equipment N/R - Organic		- / 0.603	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.603	
2.2.3) Data Link/FMV NRE - Organic		- / -	- / 4.050	- / 0.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.254	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: MH-60S			Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs: 0604216N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Subtotal: Non-Recurring	- / 0.603	- / 4.050	- / 0.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.857
Subtotal: 009-07 MH-60S WARFIGHTER	764 / 183.274	86 / 14.710	115 / 12.043	253 / 26.962	6 / 2.958	259 / 29.920	217 / 30.145	207 / 29.943	164 / 21.282	149 / 20.198	325 / 79.227	2,286 / 420.742
Subtotal: Procurement, All Modification Items	- / 183.274	- / 14.710	- / 12.043	- / 26.962	- / 2.958	- / 29.920	- / 30.145	- / 29.943	- / 21.282	- / 20.198	- / 79.227	- / 420.742
Support (All Modification Items)												
3.1) Engineering Change Orders	- / 0.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.567
3.2) Data	- / 0.070	- / 0.247	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.317
3.3) Training Equipment	- / 3.911	- / 0.836	- / -	- / 3.360	- / -	- / 3.360	- / 5.700	- / 3.281	- / -	- / -	- / -	- / 17.088
3.4) Support Equipment	- / 5.508	- / 0.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.835
3.5) ILS	- / 6.332	- / 1.322	- / 1.703	- / 1.574	- / 0.288	- / 1.862	- / 1.645	- / 1.672	- / 1.709	- / 1.743	Continuing	Continuing
3.6) Other Support	- / 15.981	- / 6.256	- / 6.925	- / 6.554	- / 1.312	- / 7.866	- / 6.668	- / 6.785	- / 6.728	- / 6.829	Continuing	Continuing
Subtotal: Support	- / 32.369	- / 8.988	- / 8.628	- / 11.488	- / 1.600	- / 13.088	- / 14.013	- / 11.738	- / 8.437	- / 8.572	Continuing	Continuing
Installation												
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER	- / 28.738	- / 9.062	- / 6.837	- / 4.233	- / 0.300	- / 4.533	- / 2.929	- / 2.066	- / 2.118	- / 2.270	- / 5.552	- / 64.105
Subtotal: Installation	- / 28.738	- / 9.062	- / 6.837	- / 4.233	- / 0.300	- / 4.533	- / 2.929	- / 2.066	- / 2.118	- / 2.270	- / 5.552	- / 64.105
Total												
Total Cost (Procurement + Support + Installation)	244.381	32.760	27.508	42.683	4.858	47.541	47.087	43.747	31.837	31.040	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0530 / SH-60 Series		Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER							
Manufacturer Information							
Manufacturer Name: HDTS Akit--Elbit Systems of America				Manufacturer Location: Fort Worth, TX			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 10			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018	Jan 2019				
Delivery Dates	Nov 2017	Nov 2018	Nov 2019				
Manufacturer Name: Data Link/FMV - TBD (Competition)				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 10			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Feb 2018	Feb 2019				
Delivery Dates		Dec 2018	Dec 2019				
Manufacturer Name: FRCMA/FRCSW				Manufacturer Location: Norfolk, VA/San Diego, CA			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016	Nov 2017	Nov 2018				
Delivery Dates	Jun 2017	Jun 2018	Jun 2019				
Manufacturer Name: ADTS/MMI--Sikorsky Aircraft Corp				Manufacturer Location: Stratford, CT			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jan 2019				
Delivery Dates			Apr 2019				
Manufacturer Name: ECP 4046 AVC/DALS -- FRCMA/FRCSW				Manufacturer Location: Norfolk, VA/San Diego, CA			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 13			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: ECP 4034 Full -- Sikorsky Aircraft Corporation				Manufacturer Location: Stratford, CT			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0530 / SH-60 Series			Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates							
Manufacturer Name: IMDS -- Goodrich				Manufacturer Location: Vergennes, VT			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: DAIRCM - CECOM				Manufacturer Location: Cherry Point, NC			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 4			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Feb 2017	Feb 2018	Feb 2019				
Delivery Dates	Jun 2017	Jun 2018	Jun 2019				
Manufacturer Name: ECP 4039 -- Sikorsky Aircraft Corporation ⁽²⁾				Manufacturer Location: Stratford, CT			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 24			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: FFW-- NSW Crane				Manufacturer Location: Crane, IN			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 11			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0530 / SH-60 Series										Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER																															
Installation Information																															
Method of Implementation: FRC:: Installation Name: ECP 4034/ 4046/IMDS																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		229 / 15.514	34 / 2.157	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	263 / 17.671																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		229 / 15.514	34 / 2.157	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	263 / 17.671																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	229	4	11	10	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	263
Out	229	3	11	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	263
Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4039																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		57 / 13.224	14 / 5.503	15 / 3.517	4 / 1.200	0 / 0.000	4 / 1.200	- / -	- / -	- / -	- / -	0 / 0.000	90 / 23.444																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0530 / SH-60 Series										Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER												
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																	
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER																																
Installation Information																																
Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4039																																
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Total		57 / 13.224		14 / 5.503		15 / 3.517		4 / 1.200		0 / 0.000		4 / 1.200		- / -		- / -		- / -		- / -		0 / 0.000		90 / 23.444								
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	57	-	5	5	4	4	4	3	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90
Out	57	-	5	5	4	4	4	3	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90
Method of Implementation: Depot Field Mod Team:: Installation Name: Data Link/FMV A Kit																																
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2018		- / -		- / -		- / -		7 / 0.101		0 / 0.000		7 / 0.101		- / -		- / -		- / -		- / -		0 / 0.000		7 / 0.101								
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		14 / 0.206		- / -		- / -		- / -		0 / 0.000		14 / 0.206								
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		22 / 0.328		- / -		- / -		0 / 0.000		22 / 0.328								
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		20 / 0.303		- / -		0 / 0.000		20 / 0.303								
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		20 / 0.307		0 / 0.000		20 / 0.307								
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		19 / 0.296		19 / 0.296								
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		114 / 1.880		114 / 1.880								
Total		- / -		- / -		- / -		7 / 0.101		0 / 0.000		7 / 0.101		14 / 0.206		22 / 0.328		20 / 0.303		20 / 0.307		133 / 2.176		216 / 3.421								
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	2	5	-	-	2	6	5	1	2	7	8	5	2	7	8	3	10	10	-	-	133	216	
Out	-	-	-	-	-	-	-	-	-	2	5	-	-	2	6	5	1	2	7	8	5	2	7	8	3	10	10	-	-	133	216	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0530 / SH-60 Series										Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: HDTS A Kit																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																	
Prior Years		- / -	24 / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.480																		
FY 2017		- / -	- / -	18 / 0.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.734																		
FY 2018		- / -	- / -	- / -	18 / 0.749	0 / 0.000	18 / 0.749	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.749																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	26 / 1.103	- / -	- / -	- / -	0 / 0.000	26 / 1.103																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.779	- / -	- / -	0 / 0.000	18 / 0.779																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.325	- / -	0 / 0.000	30 / 1.325																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.351	0 / 0.000	30 / 1.351																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.103	24 / 1.103																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.396	31 / 1.396																		
Total		- / -	24 / 0.480	18 / 0.734	18 / 0.749	0 / 0.000	18 / 0.749	26 / 1.103	18 / 0.779	30 / 1.325	30 / 1.351	55 / 2.499	219 / 9.020																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	12	12	-	-	4	4	5	5	4	4	5	5	9	9	8	-	6	6	6	-	10	10	10	-	10	10	10	-	55	219
Out	-	12	12	-	-	4	4	5	5	4	4	5	5	9	9	8	-	6	6	6	-	10	10	10	-	10	10	10	-	55	219
Method of Implementation: Contractor Field Mod Team:: Installation Name: ADTS/MMI Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	30 / 0.612	0 / 0.000	30 / 0.612	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.612																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.816	10 / 0.204	- / -	- / -	0 / 0.000	50 / 1.020																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 0.755	- / -	- / -	0 / 0.000	37 / 0.755																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.490	- / -	0 / 0.000	24 / 0.490																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.612	0 / 0.000	30 / 0.612																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 0.877	43 / 0.877																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series										Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER																	
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																	
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER																																
Installation Information																																
Method of Implementation: Contractor Field Mod Team:: Installation Name: ADTS/MMI Kits																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Total		- / -	- / -	- / -	30 / 0.612	0 / 0.000	30 / 0.612	40 / 0.816	47 / 0.959	24 / 0.490	30 / 0.612	43 / 0.877	214 / 4.366																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	15	15	-	-	20	20	10	-	19	18	-	-	12	12	-	-	15	15	43	214
Out	-	-	-	-	-	-	-	-	-	-	-	-	15	15	-	-	20	20	10	-	19	18	-	-	12	12	-	-	15	15	43	214
Method of Implementation: Contractor Field Mod Team:: Installation Name: DAIRCM																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017		- / -	14 / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	14 / 0.700																			
FY 2018		- / -	- / -	6 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.300																			
FY 2019		- / -	- / -	- / -	0 / 0.000	6 / 0.300	6 / 0.300	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.300																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		- / -	14 / 0.700	6 / 0.300	0 / 0.000	6 / 0.300	6 / 0.300	- / -	- / -	- / -	- / -	0 / 0.000	26 / 1.300																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	7	7	-	-	3	3	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	
Out	-	-	-	7	7	-	-	3	3	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0530 / SH-60 Series										Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER																															
Installation Information																															
Method of Implementation: Field Team:: Installation Name: ECP H60-111 DALs																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	3 / 0.222	15 / 1.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 1.365																		
FY 2018		- / -	- / -	15 / 1.143	5 / 0.393	0 / 0.000	5 / 0.393	- / -	- / -	- / -	- / -	0 / 0.000	20 / 1.536																		
FY 2019		- / -	- / -	- / -	15 / 1.178	0 / 0.000	15 / 1.178	5 / 0.404	- / -	- / -	- / -	0 / 0.000	20 / 1.582																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.400	- / -	- / -	- / -	0 / 0.000	5 / 0.400																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	3 / 0.222	30 / 2.286	20 / 1.571	0 / 0.000	20 / 1.571	10 / 0.804	- / -	- / -	- / -	0 / 0.000	63 / 4.883																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	1	2	8	7	8	7	5	-	8	7	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63
Out	-	-	-	1	2	8	7	8	7	5	-	8	7	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63
Method of Implementation (Organic): ECP 4057 Lower Anti-Collision Fix																				Installation Quantity: 261											
Method of Implementation (Organic): Data Link/FMV RME - Not Installed																				Installation Quantity: 120											
Method of Implementation (Organic): HDTS RME - Not Installed																				Installation Quantity: 120											
Method of Implementation (Organic): HDTS Helmet Tracker (HTK) - Not Installed																				Installation Quantity: 480											
Method of Implementation (Organic): ADTS/MMI RME Kit - Not Installed																				Installation Quantity: 214											
Footnotes:																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(2) ECP 4039 Installs schedule delayed due to aircraft in preservation.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	81.953	6.118	30.286	42.575	0.000	42.575	61.212	77.801	68.054	71.929	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	81.953	6.118	30.286	42.575	0.000	42.575	61.212	77.801	68.054	71.929	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	81.953	6.118	30.286	42.575	0.000	42.575	61.212	77.801	68.054	71.929	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The H-60 Aircraft are included in the Department of the Navy Aviation Plan through calendar year 2045. The H-60 aircraft sustainment strategy targets initiatives to remedy the top age-related maintenance degraders fatigue life limiters, obsolescence and safety issues that impede the aircraft's ability to operate into the future. This effort will sustain the H-60 in an affordable manner until the follow-on aircraft becomes available. The increase in this Operational Safety Improvement Program (OSIP) reflects the increasing shift towards aircraft modifications as the sole means to incorporate changes on the H-60 Aircraft. This program implements a concentrated effort to utilize improvements to the H-60 component obsolescence (e.g. mission computers), structural limitations (e.g. tail pylon, canted bulkhead, station 308 structural improvement), aircrew safety systems, and aircraft wiring analysis health. In order to mitigate the risk of Diminishing Manufacturing Sources and Material Shortages (DMSMS) the H-60 program has a proactive plan to manage the risk associated with obsolescence issues. DMSMS includes material obsolescence which may occur at the part, module, component, equipment, or other system indenture level. These situations may cause material shortages that endanger H-60 capabilities, readiness, and life cycle support. Preliminary efforts include the incorporation of system bill of materials (BOM) for active monitoring into predictive tools to prioritize and determine risk associated with possible DMSMS occurrences. When issues arise, the solution involves procurement from alternate sources, substitution of components, life of type buys, emulation of components, or ultimately system redesign requiring the modification of H-60 systems. Aircraft modification/replacement of the Single Board Computers (SBCs) in the Gen III and Gen VI Mission Computers/Flight Mission Computers in the MH-60R/S will allow for future software builds. The current computers have obsolescence issues and do not have the memory or processing speed for new software builds to include the RNP/RNAV capability. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MH-60R/S is the lead platform for Multifunctional Information Distribution System (MIDS) Block Upgrade 2 (BU2), in support of Battle Group Tactical Data Link Network Centric Warfare. MH-60R/S will procure MIDS BU2 upgrades to support Federal Aviation Administration (FAA) Frequency Remapping (FR) and National Security Administration (NSA) Crypto Modernization (CM) mandates by 2020. JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 018-12 baseline funding increases by \$22.8M (115.4%) from FY 2018 to FY 2019 due to commencement of MC/FMC effort. FY 2018 includes \$10.5M of OCO for ARC-210 Radios.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: HH-60H, MH-60S, MH-60R			Modification Type: SUSTAINMENT					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT													
A Kits													
Recurring													
1.1.1) Archived ECPs - Organic		- / 6.793	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.793	
1.1.2) Obsolescence Components Kits - Organic ⁽³⁾		- / 0.055	126 / 1.000	- / -	- / -	- / -	2 / 0.796	11 / 8.764	12 / 9.802	13 / 14.397	868 / 171.374	1,032 / 206.188	
Subtotal: Recurring		- / 6.848	- / 1.000	- / -	- / -	- / -	- / 0.796	- / 8.764	- / 9.802	- / 14.397	- / 171.374	- / 212.981	
Non-Recurring													
1.2.1) Obsolescence Components Kits - Organic		- / 0.005	- / -	- / -	- / -	- / -	- / 20.800	- / 26.757	- / 24.396	- / 29.435	- / 148.132	- / 249.525	
Subtotal: Non-Recurring		- / 0.005	- / -	- / -	- / -	- / -	- / 20.800	- / 26.757	- / 24.396	- / 29.435	- / 148.132	- / 249.525	
B Kits													
Recurring													
2.1.1) Avionics B Kits - Organic ⁽⁴⁾		67 / 7.925	4 / 0.787	142 / 12.348	8 / 2.771	- / -	8 / 2.771	4 / 1.543	8 / 3.401	10 / 7.333	10 / 7.629	876 / 485.355	1,129 / 529.092
2.1.2) Mission System B Kits - Organic		- / -	- / -	7 / 0.770	- / -	- / -	- / -	10 / 1.144	10 / 1.167	10 / 1.191	10 / 1.214	21 / 2.631	68 / 8.117
2.1.3) Weapons B Kits - Organic		- / -	- / -	7 / 0.840	- / -	- / -	- / -	10 / 1.248	10 / 1.273	10 / 1.299	10 / 1.325	15 / 2.041	62 / 8.026
2.1.4) MIDS BU2 B Kits - Organic		- / -	- / -	113 / 8.458	101 / 7.560	- / -	101 / 7.560	86 / 6.437	86 / 6.437	48 / 3.593	- / -	- / -	434 / 32.485
2.1.5) MC/FMC B Kits - Organic		9 / 7.413	- / -	- / -	168 / 22.466	- / -	168 / 22.466	125 / 18.318	114 / 18.050	61 / 10.381	50 / 9.231	7 / 1.292	534 / 87.151
Subtotal: Recurring		- / 15.338	- / 0.787	- / 22.416	- / 32.797	- / -	- / 32.797	- / 28.690	- / 30.328	- / 23.797	- / 19.399	- / 491.319	- / 664.871
Non-Recurring													
2.2.2) Helo Trak Net NRE - Organic		- / 2.309	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.309
2.2.3) MH-60R/S Obsolescence NRE - Organic ⁽⁵⁾		- / 38.743	- / 1.049	- / 0.420	- / -	- / -	- / -	- / 1.045	- / 5.084	- / 4.333	- / 154.693	- / 205.367	
2.2.4) MC/FMC NRE - Organic		- / -	- / -	- / 3.423	- / 5.685	- / -	- / 5.685	- / -	- / -	- / -	- / -	- / -	- / 9.108
Subtotal: Non-Recurring		- / 41.052	- / 1.049	- / 3.843	- / 5.685	- / -	- / 5.685	- / -	- / 1.045	- / 5.084	- / 4.333	- / 154.693	- / 216.784
Subtotal: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT		76 / 63.243	130 / 2.836	269 / 26.259	277 / 38.482	- / -	277 / 38.482	237 / 50.286	239 / 66.894	151 / 63.079	93 / 67.564	1,787 / 965.518	3,259 / 1,344.161
Subtotal: Procurement, All Modification Items		- / 63.243	- / 2.836	- / 26.259	- / 38.482	- / -	- / 38.482	- / 50.286	- / 66.894	- / 63.079	- / 67.564	- / 965.518	- / 1,344.161
Support (All Modification Items)													
3.1) Engineering Change Orders		- / -	- / 0.310	- / 0.316	- / 0.322	- / -	- / 0.322	- / 0.329	- / 0.336	- / 0.342	- / 0.349	- / 2.647	- / 4.951
3.3) Training Equipment ⁽⁶⁾		- / -	- / -	- / 0.041	- / 0.037	- / -	- / 0.037	- / 0.422	- / 6.703	- / 0.696	- / -	- / -	- / 7.899

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: HH-60H, MH-60S, MH-60R				Modification Type: SUSTAINMENT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
3.4) Support Equipment ⁽⁷⁾	- / 6.079	- / -	- / -	- / -	- / -	- / -	- / 6.374	- / -	- / -	- / -	- / -	- / 12.453	
3.5) ILS	- / 5.448	- / 0.259	- / 0.264	- / 0.269	- / -	- / 0.269	- / 0.275	- / 0.280	- / 0.286	- / 0.292	Continuing	Continuing	
3.6) Other Support ⁽⁸⁾	- / 7.183	- / 2.713	- / 3.406	- / 3.465	- / -	- / 3.465	- / 3.526	- / 3.588	- / 3.651	- / 3.724	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 18.710	- / 3.282	- / 4.027	- / 4.093	- / -	- / 4.093	- / 10.926	- / 10.907	- / 4.975	- / 4.365	- / 0.647	- / 23.303	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	81.953	6.118	30.286	42.575	0.000	42.575	61.212	77.801	68.054	71.929	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT		
Footnotes: (3) Cost Element 1.1.2 (Obsolescence Components Kits) funding in FY 2020 thru FY 2023 for obsolescence efforts regarding Common Data Link (CDL) Hawklint, ARPDD circuit card respin, Hellfire Launcher, Forward-Looking Infrared Radar (FLIR) and Electronic Support Measures (ESM). (4) Cost element 2.1.1 (Avionics B Kit) efforts contain different quantities and scope each year resulting in overall cost variability. (5) Cost Element 2.2.3 (MH-60R/S Obsolescence NRE) funding in FY 2020 thru FY 2023 for obsolescence efforts regarding CDL Hawklint, ARPDD circuit card respin, Hellfire Launcher, FLIR and ESM. (6) Cost element 3.3 (Training Equipment) FY 2019 thru FY 2021 funding is required for Mission Computer/Flight Management Computer (MC/FMC) trainer modifications. (7) Cost Element 3.4 (Support Equipment) FY 2020 funding for Operational Test Program Set (OTPS) for mission computer. (8) Cost element 3.6 (Other Support) funding is required for acquisition, configuration/documentation management, engineering, and test support required to incorporate obsolescence modifications on the MH-60R/S aircraft.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series						Modification Number / Title: 6 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	364.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	364.029
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	364.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	364.029
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	364.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	364.029
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series						Modification Number / Title: 6 / Inactive OSIPs			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
A Kits													
Recurring													
1.1.1) Inactive OSIPs - Organic	- / 364.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 364.029	
<i>Subtotal: Recurring</i>	- / 364.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 364.029	
<i>Subtotal: Inactive OSIPs</i>	- / 364.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 364.029	
<i>Subtotal: Procurement, All Modification Items</i>	- / 364.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 364.029	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	364.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	364.029	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 6 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0532 / H-1 Series

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604245N

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	430.268	73.262	101.886	87.143	0.000	87.143	123.372	193.094	184.821	212.068	929.051	2,334.965
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	430.268	73.262	101.886	87.143	0.000	87.143	123.372	193.094	184.821	212.068	929.051	2,334.965
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	430.268	73.262	101.886	87.143	0.000	87.143	123.372	193.094	184.821	212.068	929.051	2,334.965
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the UH-1Y and AH-1W/Z aircraft and related systems. The overall goals associated with these modifications are to reduce the total cost of ownership while improving ready-based aircraft and ready-for-tasking rates, eliminate safety hazards, improve survivability, fulfill operational requirements, remedy obsolescence, and sustain/improve mission capability in support of the Marine Air Ground Task Force and joint operations worldwide.

The H-1 Series modifications within this line item are grouped into three focus areas: H-1 Avionics Improvements (OSIP 015-12), H-1 Sensors and Weapons Improvements (OSIP 016-12), and H-1 Air Vehicle Improvements (OSIP 013-14).

The mission of the UH-1Y utility helicopter is to provide command and control and combat assault support under day/night and adverse weather conditions and special operations support: supporting arms coordination and aeromedical evacuation. The H-1 aircraft provide local civilian and military search and rescue support, as well as augmenting Department of Homeland Security resources. The AH-1W/Z are tandem-seat, two-place attack helicopters. The mission of the AH-1W/Z attack helicopter is to provide rotary wing close air support, anti-armor, armed escort, armed/visual reconnaissance, anti-helicopter and point air defense and fire support coordination during day/night conditions. The current armament of the AH-1W/Z includes the Sidewinder and Hellfire missile systems, a chin-mounted 20mm turret gun, and a wide variety of forward-firing and gravity-released external stores.

The aircraft inventory objective for the UH-1Y for FY 2019 is projected to be 154 aircraft.
 The aircraft inventory objective for the AH-1Z for FY 2019 is projected to be 136 aircraft.
 The aircraft inventory objective for the AH-1W for FY 2019 is projected to be 47 aircraft.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy					Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0532 / H-1 Series				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: 0604245N			

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12) (Operational Improvement)				- / 46.214	- / 47.314	- / 36.037	- / 33.703	- / 0.000	- / 33.703
P-3a	2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12) (Operational Improvement)				- / 77.385	- / 12.084	- / 8.170	- / 12.569	- / 0.000	- / 12.569
P-3a	3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14) (Safety/Reliability Improvements)				- / 21.640	- / 13.864	- / 57.679	- / 40.871	- / 0.000	- / 40.871
P-3a	4 / INACTIVE OSIPS (TBD)				- / 285.029	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 430.268	- / 73.262	- / 101.886	- / 87.143	- / 0.000	- / 87.143

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12) (Operational Improvement)				- / 58.600	- / 77.173	- / 66.520	- / 52.209	- / 334.578	- / 752.348
P-3a	2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12) (Operational Improvement)				- / 19.855	- / 37.596	- / 24.280	- / 68.655	- / 226.625	- / 487.219
P-3a	3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14) (Safety/Reliability Improvements)				- / 44.917	- / 78.325	- / 94.021	- / 91.204	- / 335.679	- / 778.200
P-3a	4 / INACTIVE OSIPS (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 285.029
P-40	Total Gross/Weapon System Cost				- / 123.372	- / 193.094	- / 184.821	- / 212.068	- / 929.051	- / 2,334.965

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Basis for FY 2019 Budget Request: Funds are requested in FY 2019 for modifications to the UH-1Y and AH-1Z aircraft and related air vehicle, avionics, sensors, and weapons systems.

FY 2017 OCO Funds realigned between OSIP 15-12 and OSIP 16-12 for Distributed Aperture Infrared Countermeasures (DAIRCM) due to Integrated Product Team (IPT) restructure.

The Cost to Complete should be \$896.882 vice \$929.051 and the Total Cost should be \$2,302.796 vice \$2,334,965.

The FY 2019 funding request was reduced by \$0.627M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series						Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	46.214	47.314	36.037	33.703	0.000	33.703	58.600	77.173	66.520	52.209	334.578	752.348
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	46.214	47.314	36.037	33.703	0.000	33.703	58.600	77.173	66.520	52.209	334.578	752.348
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	46.214	47.314	36.037	33.703	0.000	33.703	58.600	77.173	66.520	52.209	334.578	752.348
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety and Improvement Program (OSIP) incorporates changes to H-1 avionics systems, specifically attacking the highest readiness degraders to reduce the total cost of ownership while improving ready based aircraft and ready- for-tasking rates. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable H-1 force to sustain warfighter capability in support of worldwide operations. Systems modified and improved on H-1 aircraft will leverage common architectures and utilize existing technology to the maximum extent practicable to minimize development and procurement costs and to reduce the time to field the modifications. Specific systems associated with this OSIP are: Mission Computer, Mission Computer Harness for improved video, Digital Map, Flight Control Computer, Wiring Integration Remote Terminals, flight data recorders, maintenance data recorders, video recorders, Digital Video Recorders (DVR), data loaders, air data systems, Multi-Function Displays (MFD), Smart Displays, Dual Function Displays (DFD), interoperable video and digital data links (Tactical Video Data Links and Full Motion Video (FMV)) for Variable Message Format with an Aircraft Network Switch, Data Transfer System and Data Storage Unit. Communication systems, Mobile User Objective System (MUOS), Wireless Inter-Communications Systems (WICS), Identification Friend or Foe system, Inertial Navigation System, Global Positioning System (GPS) Inertial (EGI), Aircraft Dependent Surveillance Broadcast (ADS-B), Selective Availability Anti-Spoofing Module (SAASM), GPS non-precision approach capability and Navigation Warfare (NAVWAR) GPS signal protection efforts such as Anti-Jam Antenna, radar altimeter, Blue Force Tracker, and Joint Battlefield Command - Platform (JBC-P). Safety system modifications are required for DFD knob, collision avoidance systems, Degraded Visual Environment, Ground Proximity Warning System, Terrain Awareness Warning System, Crash Survivable Flight Incident Recorder, Improved Vehicle Health and Monitoring System (IMD HUMS) and the Enhanced Digital Ground Station (EDGS) along with Military Flight Operations Quality Assurance. System Configuration Set (SCS) updates are required for avionics component upgrades and interface modifications to ensure integration of platform weapons and sensors. Other focus areas will include Weapon Repairable Assembly modifications to improve avionics and weapons system reliability, maintainability, accuracy and interoperability. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1W/Z			Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)												
A Kits												
Recurring												
1.1.1) Digital Interoperability-Data Link (UH-1Y/AH-1Z) - NonOrganic	- / -	- / -	1 / 0.099	2 / 0.200	- / -	2 / 0.200	12 / 1.212	48 / 4.896	24 / 2.472	42 / 4.368	220 / 23.100	349 / 36.347
1.1.2) DI-Full Motion Video (FMV) Phase 1.0 (UH-1Y/AH-1Z) - NonOrganic ⁽¹⁾	5 / 3.780	24 / 1.824	33 / 2.525	23 / 1.771	- / -	23 / 1.771	20 / 1.550	5 / 0.400	- / -	- / -	- / -	110 / 11.850
1.1.3) DI-Full Motion Video (FMV) Phase 2.0 (UH-1Y/AH-1Z) - NonOrganic ⁽²⁾	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.880	22 / 2.464	18 / 2.052	- / -	- / -	48 / 5.396
1.1.4) Wireless Internal Communication System (WICS) (UH-1Y) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.104	8 / 0.224	20 / 0.600	8 / 0.256	124 / 4.216	164 / 5.400
1.1.5) Aircraft Network Switch (ANS) (UH-1Y/AH-1Z) - NonOrganic	- / -	5 / 0.014	24 / 0.071	31 / 0.095	- / -	31 / 0.095	48 / 0.151	48 / 0.156	60 / 0.201	32 / 0.110	45 / 0.160	293 / 0.958
1.1.6) Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z) - NonOrganic	- / -	5 / 0.055	24 / 0.276	31 / 0.372	- / -	31 / 0.372	48 / 0.600	48 / 0.624	60 / 0.810	32 / 0.448	45 / 0.653	293 / 3.838
1.1.7) Digital Video Recorder (DVR) (UH-1Y/AH-1Z) - Organic	71 / 0.227	28 / 0.092	25 / 0.085	20 / 0.070	- / -	20 / 0.070	20 / 0.072	- / -	- / -	- / -	- / -	164 / 0.546
1.1.8) Mission Computer (MC) Harness (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	32 / 1.280	- / -	32 / 1.280	60 / 2.460	60 / 2.520	20 / 0.860	20 / 0.880	157 / 7.065	349 / 15.065
1.1.9) Embedded GPS Inertial (EGI) Navigation Upgrade (UH-1Y/AH-1Z) - NonOrganic ⁽³⁾	- / -	- / -	- / -	2 / 0.100	- / -	2 / 0.100	8 / 0.408	32 / 1.665	32 / 1.697	16 / 0.865	259 / 14.282	349 / 19.017
1.1.10) Satelite Communication (SATCOM) Improvements (UH-1Y) - Organic	- / -	- / -	- / -	10 / 0.500	- / -	10 / 0.500	48 / 2.448	48 / 2.497	22 / 1.167	16 / 0.865	32 / 1.765	176 / 9.242
1.1.11) High Definition Smart Displays (UH-1Y/AH-1Z) - NonOrganic	- / -	- / -	- / -	2 / 0.060	- / -	2 / 0.060	24 / 0.734	48 / 1.498	48 / 1.528	- / -	227 / 7.488	349 / 11.308
1.1.12) ARC-210 Gen 6 RT-2036 Mobile User Objective System (MUOUS) (UH-1Y) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.832	16 / 1.696	36 / 3.888	104 / 11.440	164 / 17.856
1.1.13) Global Positioning System (GPS) Anti Jam (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	16 / 0.560	- / -	16 / 0.560	32 / 1.152	48 / 1.776	48 / 1.824	48 / 1.872	157 / 6.280	349 / 13.464
1.1.14) Archived Mods - Organic	8 / 3.235	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.235
Subtotal: Recurring	- / 7.242	- / 1.985	- / 3.056	- / 5.008	- / -	- / 5.008	- / 11.771	- / 19.552	- / 14.907	- / 13.552	- / 76.449	- / 153.522
Non-Recurring												
1.2.1) Installation Kits N/R - Organic ⁽⁴⁾	- / 7.220	- / 6.825	- / 4.771	- / 1.253	- / -	- / 1.253	- / 1.646	- / 1.382	- / 1.206	- / 1.316	- / 4.302	- / 29.921
Subtotal: Non-Recurring	- / 7.220	- / 6.825	- / 4.771	- / 1.253	- / -	- / 1.253	- / 1.646	- / 1.382	- / 1.206	- / 1.316	- / 4.302	- / 29.921

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1W/Z				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
B Kits													
Recurring													
2.1.1) Digital Interoperability-Data Link (UH-1Y/AH-1Z) - Organic	- / -	- / -	1 / 0.106	2 / 0.216	- / -	2 / 0.216	12 / 1.320	48 / 5.376	24 / 2.736	42 / 4.872	220 / 25.960	349 / 40.586	
2.1.2) DI-Full Motion Video (FMV) Phase 1.0 (UH-1Y/AH-1Z) - Organic	5 / 1.140	24 / 3.936	33 / 5.412	23 / 3.818	- / -	23 / 3.818	20 / 3.360	5 / 0.850	- / -	- / -	- / -	110 / 18.516	
2.1.3) DI-Full Motion Video (FMV) Phase 2.0 (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	8 / 2.440	22 / 6.754	18 / 5.562	- / -	- / -	48 / 14.756	
2.1.4) Wireless Internal Communication System (WICS) (UH-1Y) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.140	8 / 0.288	20 / 0.740	8 / 0.304	124 / 4.836	164 / 6.308	
2.1.5) Aircraft Network Switch (ANS) (UH-1Y/AH-1Z) - Organic	- / -	5 / 0.033	24 / 0.161	31 / 0.214	- / -	31 / 0.214	48 / 0.341	48 / 0.350	60 / 0.450	32 / 0.246	45 / 0.351	293 / 2.146	
2.1.6) Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z) - Organic	- / -	5 / 0.395	24 / 1.944	31 / 2.573	- / -	31 / 2.573	48 / 4.080	48 / 4.176	60 / 5.340	32 / 2.912	45 / 4.185	293 / 25.605	
2.1.7) Digital Video Recorder (DVR) (UH-1Y/AH-1Z) - Organic	71 / 3.306	5 / 0.217	48 / 2.083	20 / 0.870	- / -	20 / 0.870	20 / 0.872	- / -	- / -	- / -	- / -	164 / 7.348	
2.1.8) Mission Computer (MC) Retrofit (UH-1Y/AH-1Z) - Organic	- / -	- / -	40 / 8.120	41 / 8.364	- / -	41 / 8.364	34 / 6.970	31 / 6.386	22 / 4.554	10 / 2.080	284 / 59.356	462 / 95.830	
2.1.9) High Definition Smart Displays (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	8 / 0.592	- / -	8 / 0.592	96 / 7.200	192 / 14.592	192 / 14.784	192 / 14.976	720 / 56.880	1,400 / 109.024	
2.1.10) ARC-210 Gen 6 RT-2036 Mobile User Objective System (MUOUS) (UH-1Y) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.752	16 / 1.536	36 / 3.528	104 / 10.400	164 / 16.216	
2.1.11) Global Positioning System (GPS) Anti Jam (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	16 / 0.416	- / -	16 / 0.416	32 / 0.896	48 / 1.440	48 / 1.536	48 / 1.632	157 / 5.652	349 / 11.572	
2.1.12) Embedded GPS Inertial (EGI) Navigation Upgrade (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	2 / 0.250	- / -	2 / 0.250	8 / 1.016	32 / 4.128	32 / 4.192	16 / 2.128	259 / 34.965	349 / 46.679	
2.1.13) Multi-Function Display (MFD) (UH-1Y/AH-1Z) - Organic	- / -	700 / 17.500	- / -	210 / 5.460	- / -	210 / 5.460	272 / 7.344	- / -	- / -	- / -	218 / 6.758	1,400 / 37.062	
2.1.14) Crash Survivable Recorder (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.128	32 / 0.544	64 / 1.152	8 / 0.152	237 / 4.740	349 / 6.716	
2.1.15) Archived Mods - Organic	156 / 12.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	156 / 12.415	
Subtotal: Recurring	- / 16.861	- / 22.081	- / 17.826	- / 22.773	- / -	- / 22.773	- / 36.107	- / 45.636	- / 42.582	- / 32.830	- / 214.083	- / 450.779	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽⁵⁾	- / 9.180	- / 11.651	- / 6.540	- / 0.650	- / -	- / 0.650	- / 3.304	- / 3.130	- / 0.750	- / 0.687	- / 16.421	- / 52.313	
Subtotal: Non-Recurring	- / 9.180	- / 11.651	- / 6.540	- / 0.650	- / -	- / 0.650	- / 3.304	- / 3.130	- / 0.750	- / 0.687	- / 16.421	- / 52.313	
Subtotal: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)	316 / 40.503	801 / 42.542	277 / 32.193	553 / 29.684	- / -	553 / 29.684	942 / 52.828	945 / 69.700	924 / 59.445	674 / 48.385	3,783 / 311.255	9,215 / 686.535	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series						Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: UH-1Y, AH-1W/Z				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Procurement, All Modification Items</i>	- / 40.503	- / 42.542	- / 32.193	- / 29.684	- / -	- / 29.684	- / 52.828	- / 69.700	- / 59.445	- / 48.385	- / 311.255	- / 686.535	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	
3.2) Data ⁽⁶⁾	- / 1.247	- / 1.737	- / 0.239	- / 0.221	- / -	- / 0.221	- / 0.255	- / 0.263	- / 0.335	- / 0.222	- / -	- / 4.519	
3.3) Training Equipment	- / 0.060	- / 0.095	- / 0.096	- / 0.045	- / -	- / 0.045	- / 0.092	- / 0.080	- / 0.075	- / 0.050	- / 2.001	- / 2.594	
3.4) Support Equipment	- / 0.400	- / 0.725	- / 0.105	- / 0.045	- / -	- / 0.045	- / 0.188	- / 0.155	- / 0.095	- / 0.050	- / 0.100	- / 1.863	
3.5) ILS	- / 0.340	- / 0.475	- / 0.276	- / 0.265	- / -	- / 0.265	- / 0.365	- / 0.422	- / 0.423	- / 0.324	- / 1.440	- / 4.330	
3.6) Other Support ⁽⁷⁾	- / 3.448	- / 0.509	- / 0.763	- / 1.145	- / -	- / 1.145	- / 0.888	- / 0.869	- / 0.789	- / 0.824	- / 5.205	- / 14.440	
<i>Subtotal: Support</i>	- / 5.496	- / 3.541	- / 1.479	- / 1.721	- / -	- / 1.721	- / 1.788	- / 1.789	- / 1.717	- / 1.470	- / 8.746	- / 27.747	
Installation													
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)	- / 0.215	- / 1.231	- / 2.365	- / 2.298	- / 0.000	- / 2.298	- / 3.984	- / 5.684	- / 5.358	- / 2.354	- / 14.577	- / 38.066	
<i>Subtotal: Installation</i>	- / 0.215	- / 1.231	- / 2.365	- / 2.298	- / -	- / 2.298	- / 3.984	- / 5.684	- / 5.358	- / 2.354	- / 14.577	- / 38.066	
Total													
Total Cost (Procurement + Support + Installation)	46.214	47.314	36.037	33.703	0.000	33.703	58.600	77.173	66.520	52.209	334.578	752.348	

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0532 / H-1 Series			Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)							
Manufacturer Information							
Manufacturer Name: TBD- Full Motion Video (FMV) Phase 1.0					Manufacturer Location: TBD		
Administrative Leadtime (<i>in Months</i>): 1					Production Leadtime (<i>in Months</i>): 5		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020		
Delivery Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021		
Manufacturer Name: TBD - Embedded GPS Inertial (EGI) Nav Upgrade					Manufacturer Location: TBD		
Administrative Leadtime (<i>in Months</i>): 3					Production Leadtime (<i>in Months</i>): 6		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates			Jun 2019	Jun 2020	Jun 2021	Jun 2022	Jun 2023
Manufacturer Name: Bell Helicopter-Aircraft Network Switch					Manufacturer Location: Dallas, TX		
Administrative Leadtime (<i>in Months</i>): 1					Production Leadtime (<i>in Months</i>): 5		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022
Delivery Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Manufacturer Name: TBD - High Definition Smart Displays					Manufacturer Location: TBD		
Administrative Leadtime (<i>in Months</i>): 3					Production Leadtime (<i>in Months</i>): 4		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	
Delivery Dates			Apr 2019	Apr 2020	Apr 2021	Apr 2022	
Manufacturer Name: TBD - DI Full Motion Video (FMV) Phase 2.0					Manufacturer Location: TBD		
Administrative Leadtime (<i>in Months</i>): 1					Production Leadtime (<i>in Months</i>): 5		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Oct 2019	Oct 2020	Oct 2021	
Delivery Dates				Mar 2020	Mar 2021	Mar 2022	
Manufacturer Name: TBD -Digital Interoperability					Manufacturer Location: TBD		
Administrative Leadtime (<i>in Months</i>): 1					Production Leadtime (<i>in Months</i>): 5		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series			Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)					
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)												
Manufacturer Information												
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Delivery Dates		Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023					
Manufacturer Name: Physical Optics Corporation				Manufacturer Location: California								
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 5								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022					
Delivery Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023					
Manufacturer Name: TBD				Manufacturer Location: TBD								
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Contractor Field Mod Team:: Installation Name: Digital Interoperability-Data Link (UH-1Y/AH-1Z)												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	1 / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.016
FY 2019	- / -	- / -	- / -	2 / 0.033	0 / 0.000	2 / 0.033	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.033
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.204	- / -	- / -	- / -	0 / 0.000	12 / 0.204
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.840	- / -	- / -	0 / 0.000	48 / 0.840
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.432	- / -	0 / 0.000	24 / 0.432
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 0.770	0 / 0.000	42 / 0.770
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	220 / 4.180	220 / 4.180
Total	- / -	- / -	1 / 0.016	2 / 0.033	0 / 0.000	2 / 0.033	12 / 0.204	48 / 0.840	24 / 0.432	42 / 0.770	220 / 4.180	349 / 6.475

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0532 / H-1 Series											Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: Digital Interoperability-Data Link (UH-1Y/AH-1Z)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	1	-	-	-	1	1	-	-	4	4	4	-	16	16	16	-	8	8	8	-	13	14	15	220	349
Out	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	4	4	4	-	16	16	16	-	8	8	8	-	13	14	235	349
Method of Implementation: Contractor Field Mod Team:: Installation Name: DI-Full Motion Video (FMV) Phase 1.0 (UH-1Y/AH-1Z)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		5 / 0.215	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.215																		
FY 2017		- / -	24 / 1.056	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 1.056																		
FY 2018		- / -	- / -	33 / 1.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	33 / 1.485																		
FY 2019		- / -	- / -	- / -	23 / 1.058	0 / 0.000	23 / 1.058	- / -	- / -	- / -	- / -	0 / 0.000	23 / 1.058																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.940	- / -	- / -	- / -	0 / 0.000	20 / 0.940																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.240	- / -	- / -	0 / 0.000	5 / 0.240																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		5 / 0.215	24 / 1.056	33 / 1.485	23 / 1.058	0 / 0.000	23 / 1.058	20 / 0.940	5 / 0.240	- / -	- / -	0 / 0.000	110 / 4.994																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	5	-	8	8	8	-	11	11	11	-	7	8	8	-	6	7	7	-	1	2	2	-	-	-	-	-	-	-	-	-	110
Out	5	-	-	8	8	8	-	11	11	11	-	7	8	8	-	6	7	7	-	1	2	2	-	-	-	-	-	-	-	-	110

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Installation Information

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: DI-Full Motion Video (FMV) Phase 2.0 (UH-1Y/AH)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.520	- / -	- / -	- / -	0 / 0.000	8 / 0.520
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 1.452	- / -	- / -	0 / 0.000	22 / 1.452
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.206	- / -	0 / 0.000	18 / 1.206
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.520	22 / 1.452	18 / 1.206	- / -	0 / 0.000	48 / 3.178

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	-	7	7	8	-	6	6	6	-	-	-	-	-	48
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	-	7	7	8	-	6	6	6	-	-	-	-	48

Method of Implementation: Contractor Field Mod Team:: Installation Name: Aircraft Network Switch (ANS) (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	5 / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.050
FY 2018	- / -	- / -	24 / 0.252	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.252
FY 2019	- / -	- / -	- / -	31 / 0.341	0 / 0.000	31 / 0.341	- / -	- / -	- / -	- / -	0 / 0.000	31 / 0.341
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.552	- / -	- / -	- / -	0 / 0.000	48 / 0.552
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.576	- / -	- / -	0 / 0.000	48 / 0.576
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.750	- / -	0 / 0.000	60 / 0.750
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.416	0 / 0.000	32 / 0.416

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Aircraft Network Switch (ANS) (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.608	45 / 0.608
Total	- / -	5 / 0.050	24 / 0.252	31 / 0.341	0 / 0.000	31 / 0.341	48 / 0.552	48 / 0.576	60 / 0.750	32 / 0.416	45 / 0.608	293 / 3.545

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	5	-	-	-	8	8	8	-	10	10	11	-	16	16	16	-	16	16	16	-	20	20	20	-	10	11	11	45	293
Out	-	-	-	5	-	-	-	8	8	8	-	10	10	11	-	16	16	16	-	16	16	16	-	20	20	20	-	10	11	56	293

Method of Implementation: Contractor Field Mod Team:: Installation Name: Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	5 / 0.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.125
FY 2018	- / -	- / -	24 / 0.612	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.612
FY 2019	- / -	- / -	- / -	31 / 0.806	0 / 0.000	31 / 0.806	- / -	- / -	- / -	- / -	0 / 0.000	31 / 0.806
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.272	- / -	- / -	- / -	0 / 0.000	48 / 1.272
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.296	- / -	- / -	0 / 0.000	48 / 1.296
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 1.650	- / -	0 / 0.000	60 / 1.650
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.896	0 / 0.000	32 / 0.896
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 1.283	45 / 1.283
Total	- / -	5 / 0.125	24 / 0.612	31 / 0.806	0 / 0.000	31 / 0.806	48 / 1.272	48 / 1.296	60 / 1.650	32 / 0.896	45 / 1.283	293 / 7.940

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)									

ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:									

Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z)

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	5	-	-	-	8	8	8	-	10	10	11	-	16	16	16	-	16	16	16	-	20	20	20	-	10	11	11	45	293
Out	-	-	-	5	-	-	-	8	8	8	-	10	10	11	-	16	16	16	-	16	16	16	-	20	20	20	-	10	11	56	293

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: Embedded GPS Inertial (EGI) Navigation Upgrade

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	2 / 0.030	0 / 0.000	2 / 0.030	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.030
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.124	- / -	- / -	- / -	0 / 0.000	8 / 0.124
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.512	- / -	- / -	0 / 0.000	32 / 0.512
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.528	- / -	0 / 0.000	32 / 0.528
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.272	0 / 0.000	16 / 0.272
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	259 / 4.533	259 / 4.533
Total	- / -	- / -	- / -	2 / 0.030	0 / 0.000	2 / 0.030	8 / 0.124	32 / 0.512	32 / 0.528	16 / 0.272	259 / 4.533	349 / 5.999

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	4	4	-	-	16	16	-	-	16	16	-	-	8	8	259	349
Out	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	4	4	-	-	16	16	-	-	16	16	-	-	8	267	349

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0532 / H-1 Series										Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)												
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																	
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)																																
Installation Information																																
Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: High Definition Smart Displays (UH-1Y/AH-1Z)																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019		- / -	- / -	- / -	2 / 0.030	0 / 0.000	2 / 0.030	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.030																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.372	- / -	- / -	- / -	0 / 0.000	24 / 0.372																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.768	- / -	- / -	0 / 0.000	48 / 0.768																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.792	- / -	0 / 0.000	48 / 0.792																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	227 / 3.973	227 / 3.973																			
Total		- / -	- / -	- / -	2 / 0.030	0 / 0.000	2 / 0.030	24 / 0.372	48 / 0.768	48 / 0.792	- / -	227 / 3.973	349 / 5.935																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	12	12	-	-	24	24	-	-	24	24	-	-	-	-	227	349	
Out	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	12	12	-	-	24	24	-	-	24	24	-	-	-	-	227	349
Method of Implementation (Organic): Wireless Internal Communication System (WICS) (UH-1Y)																				Installation Quantity: 164												
Method of Implementation (Organic): Digital Video Recorder (DVR) (UH-1Y/AH-1Z)																				Installation Quantity: 164												
Method of Implementation (Organic): Mission Computer (MC) Harness (UH-1Y/AH-1Z)																				Installation Quantity: 349												
Method of Implementation (Organic): Satellite Communication (SATCOM) Improvements (UH-1Y)																				Installation Quantity: 176												
Method of Implementation (Organic): ARC-210 Gen 6 RT-2036 Mobile User Objective System (MUOUS) (UH-1Y)																				Installation Quantity: 164												

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)		
Installation Information		
Method of Implementation (Organic): Global Positioning System (GPS) Anti Jam (UH-1Y/AH-1Z)		Installation Quantity: 349
Method of Implementation (Organic): Archived Mods - Not Installed		Installation Quantity: 8
Method of Implementation (Organic): Digital Interoperability-Data Link (UH-1Y/AH-1Z)		Installation Quantity: 349
Method of Implementation (Organic): DI-Full Motion Video (FMV) Phase 1.0 (UH-1Y/AH-1Z)		Installation Quantity: 110
Method of Implementation (Organic): DI-Full Motion Video (FMV) Phase 2.0 (UH-1Y/AH-1Z)		Installation Quantity: 48
Method of Implementation (Organic): Wireless Internal Communication System (WICS) (UH-1Y)		Installation Quantity: 164
Method of Implementation (Organic): Aircraft Network Switch (ANS) (UH-1Y/AH-1Z)		Installation Quantity: 293
Method of Implementation (Organic): Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z)		Installation Quantity: 293
Method of Implementation (Organic): Digital Video Recorder (DVR) (UH-1Y/AH-1Z)		Installation Quantity: 164
Method of Implementation (Organic): Mission Computer (MC) Retrofit (UH-1Y/AH-1Z)		Installation Quantity: 462
Method of Implementation (Organic): High Definition Smart Displays (UH-1Y/AH-1Z)		Installation Quantity: 1400
Method of Implementation (Organic): ARC-210 Gen 6 RT-2036 Mobile User Objective System (MUOUS) (UH-1Y)		Installation Quantity: 164
Method of Implementation (Organic): Global Positioning System (GPS) Anti Jam (UH-1Y/AH-1Z)		Installation Quantity: 349
Method of Implementation (Organic): Embedded GPS Inertial (EGI) Navigation Upgrade (UH-1Y/AH-1Z)		Installation Quantity: 349

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)		
Installation Information		
Method of Implementation (Organic): Multi-Function Display (MFD) (UH-1Y/AH-1Z)		Installation Quantity: 1400
Method of Implementation (Organic): Crash Survivable Recorder (UH-1Y/AH-1Z)		Installation Quantity: 349
Method of Implementation (Organic): Archived Mods - Not Installed		Installation Quantity: 156
Footnotes: (1) DI Full Motion Video (FMV) supports UUNS CDTs# 11061UA. The separation of DI-FMV was made to reflect a phase 1 which includes a 2 tail-mounted antennas and a carry-on ANW2 waveform capability, which provides an interim capability to meet the Urgent Universal Needs Statement. (2) The separation of DI-FMV was made to reflect a Phase 2 due to the increased costs associated with adding an additional antenna to provide FMV coverage forward of the aircraft, and integrating the ANW2 waveform capability as a permanent solution. (3) Procurement and retrofit of 349 upgraded Embedded GPS Inertial (EGI) systems which includes a new EGI/Radar Altimeter (RADALT) and a new Anti-jam GPS antenna beginning in FY 2019. (4) FY 2019 supports modifications for FMV Phase 1.0 and MC Harness. (5) FY 2019 Installation Equipment N/R is required for EGI engineering. FY 2019 also supports modifications for FMV, ADTS, MC and MFD as well. (6) FY 2019 Data is required for Embedded GPS Inertial (EGI). (7) Increase in FY 2019 is due to MC, EGI, SATCOM, High Definition Smart Displays and GPS. The FY 2019 funding request was reduced by \$0.627M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	77.385	12.084	8.170	12.569	0.000	12.569	19.855	37.596	24.280	68.655	226.625	487.219
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	77.385	12.084	8.170	12.569	0.000	12.569	19.855	37.596	24.280	68.655	226.625	487.219
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	77.385	12.084	8.170	12.569	0.000	12.569	19.855	37.596	24.280	68.655	226.625	487.219
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) incorporates changes to H-1 mission systems sensors, Helmet Mounted Sight Displays (HMSD), Aircraft Survivability Equipment (ASE), and weapon systems, specifically attacking the highest readiness degraders to reduce the total cost of ownership while improving ready-based aircraft and ready-for-tasking rates. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), aircrew situational awareness and readiness degrader items will yield a more interoperable and survivable H-1 force to sustain warfighter capability in support of worldwide operations. Systems modified and improved on H-1 aircraft will leverage common avionics architectures to the extent possible to mitigate development, procurement costs and fielding timelines. The modifications will specifically address enhancing capabilities, readiness and sensor fusion with the entire ASE, HMSD, and weapons suite to improve both battlefield and situational awareness.

This OSIP addresses the U.S. Marine Corps' operational requirement to detect, identify, and destroy target sets with the precision guided munitions during day, night, and adverse weather conditions. Sensor systems include the Target Sight System (TSS), and BRITE Star Block II, which currently provide a night/adverse weather Forward-Looking Infrared and laser designation for the H-1 series helicopter. Improvements to H-1 series helicopters' weapons systems include both air to ground and air to air missiles, rocket systems, 20mm turreted gun system reliability/obsolescence and weapons accuracy improvement efforts. These weapon systems include all Precision Guided Munitions, (Advanced Precision Kill Weapon System (APKWS), the Hellfire family of missiles, inclusive of the M299 Hellfire launcher and the Joint Air To Ground (JAGM), AIM-9X integration, the M197 20MM Turreted Gun System, associated Aviation Armament Equipment (AAE), 20MM Linkless Feed System (LFS), crew served weapons Helicopter Armament Systems (HAS), and the Digital Rocket Launcher (DRL) and associated Airborne Weapon Support Equipment (AWSE). Helmet Mounted Sight and Display (HMSD) system, improvements to the Optimized Top Owl (OTO), include Night and Day Module Optic Reliability Improvements, helmet to aircraft integration improvements as well as helmet mapping improvements. HMSD safety initiatives addressed by this OSIP include, but not limited to, spatial disorientation issues caused by Degraded Visual Environments (DVE), human factor improvements to helmet design, integration and optics improvements. For Sensor Improvements, this OSIP will address TSS Block Upgrades/Modifications to add a Laser Spot Tracker (LST) capability to detect, acquire and track laser designator signatures; Infra-Red (IR) laser pointing devices; add a high definition camera/telescope to increase detection, recognition, and identification ranges. This improvement will upgrade existing gimbal processors, optimize program security initiatives, address AC network and data link capabilities as well as improve upon overall HMSD, weapon and sensor fusion to improve weapons accuracy. The H-1 Upgrades Aircraft Survivability Equipment (ASE) suite currently consists of the AN/APR-39B(V)2 RWR, AAR-47B(V)2 Missile Warning Systems (MWS) and the AN/ALE-47 Countermeasures Dispensing System (CMDS). The AN/APR-39B(V)2 currently installed in the AH-1Z and UH-1Y is obsolete and must be replaced by the AN/APR-39D(V)2. In addition to the radar detection upgrades of the APR-39D(V)2, IR detection and countermeasures upgrades will be implemented with the integration of the Distributed Aperture Infrared Countermeasures (DAIRCM) system, and processor upgrades in the ALE-47 countermeasures dispensing set. ASE Suite upgrades are inherent to successful Digital Interoperability and Electronic Warfare (EW) initiatives, such as the integration of the Intrepid Tiger (IT II), that will ensure the H-1 platform can effectively meet network ready requirements. The interoperability with other battle management systems, provides aircrew with improved situational awareness, battlefield awareness and incorporates an EW capability.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2016 completed BRITE Star BLK II Laser Spot Tracker integration efforts, Target Sight System (TSS) Coherent Radiation Electronics Interface Unit (CREIU) and IR Pointer integration. These critical fleet requirements provide enhanced targeting capabilities to support Marine Expeditionary Unit deployments. FY 2017 began JUONS DAIRCM A-kit part procurement and fabrication, and DAIRCM system installation for 2 x H-1 test aircraft.	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series						Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: UH-1Y, AH-1W/Z				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)													
A Kits													
Recurring													
1.1.1) APR-39D(V)2 (UH-1Y) - Organic ⁽⁸⁾	- / -	- / -	- / -	4 / 2.048	- / -	4 / 2.048	10 / 5.120	9 / 4.608	- / -	27 / 13.824	110 / 55.859	160 / 81.459	
1.1.2) Distributed Aperture Infrared Countermeasures (DAIRCM) (UH1-Y/AH-1Z) - NonOrganic ⁽⁹⁾	- / -	20 / 1.493	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.493	
Subtotal: Recurring	- / 0.000	- / 1.493	- / -	- / 2.048	- / -	- / 2.048	- / 5.120	- / 4.608	- / -	- / 13.824	- / 55.859	- / 82.952	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽¹⁰⁾	- / -	- / -	- / -	- / 2.453	- / -	- / 2.453	- / -	- / -	- / -	- / -	- / -	- / 2.453	
1.2.2) Archived Mods - Organic	180 / 13.569	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 13.569	
Subtotal: Non-Recurring	- / 13.569	- / -	- / -	- / 2.453	- / -	- / 2.453	- / -	- / -	- / -	- / -	- / 0.000	- / 16.022	
B Kits													
Recurring													
2.1.1) BRITE Star BLK II Laser Spot Tracker (UH-1Y) - NonOrganic	124 / 5.510	36 / 1.836	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 7.346	
2.1.2) Target Sight System (TSS) Block Upgrade (AH-1Z) - Organic ⁽¹¹⁾	- / -	- / -	- / -	4 / 1.858	- / -	4 / 1.858	2 / 0.929	44 / 20.438	44 / 20.438	45 / 20.902	69 / 32.023	208 / 96.588	
2.1.3) OTO Helmet Mounted Sight and Display Reliability Kit (UH-1Y/AH-1Z) - Organic ⁽¹²⁾	200 / 0.429	200 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	800 / 1.760	- / -	- / -	1,200 / 3.689	
2.1.4) APR-39D(V)2 (UH-1Y) - NonOrganic ⁽¹³⁾	- / -	- / -	- / -	4 / 3.470	- / -	4 / 3.470	10 / 8.675	9 / 7.808	- / -	27 / 23.423	110 / 94.600	160 / 137.976	
2.1.5) Archived Mods - Organic	47 / 40.857	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 40.857	
Subtotal: Recurring	- / 46.796	- / 3.336	- / -	- / 5.328	- / -	- / 5.328	- / 9.604	- / 28.246	- / 22.198	- / 44.325	- / 126.623	- / 286.456	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽¹⁴⁾	- / 4.300	- / 2.955	- / 6.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.185	
Subtotal: Non-Recurring	- / 4.300	- / 2.955	- / 6.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 14.185	
Subtotal: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)	551 / 64.665	256 / 7.784	- / 6.930	12 / 9.829	- / -	12 / 9.829	22 / 14.724	62 / 32.854	844 / 22.198	99 / 58.149	289 / 182.482	2,135 / 399.615	
Subtotal: Procurement, All Modification Items	- / 64.665	- / 7.784	- / 6.930	- / 9.829	- / -	- / 9.829	- / 14.724	- / 32.854	- / 22.198	- / 58.149	- / 182.482	- / 399.615	
Support (All Modification Items)													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series						Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: UH-1Y, AH-1W/Z				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
3.1) Engineering Change Orders	- / 1.352	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.352	
3.2) Data ⁽¹⁵⁾	- / 1.933	- / 0.309	- / -	- / 0.058	- / -	- / 0.058	- / 0.312	- / 0.205	- / 0.226	- / 0.531	- / 5.320	- / 8.894	
3.5) ILS ⁽¹⁶⁾	- / 4.348	- / 0.449	- / 0.210	- / 0.677	- / -	- / 0.677	- / 0.870	- / 0.878	- / 0.887	- / 0.896	- / 0.417	- / 9.632	
3.6) Other Support ⁽¹⁷⁾	- / 5.087	- / 0.542	- / 0.210	- / 0.805	- / -	- / 0.805	- / 0.949	- / 0.959	- / 0.969	- / 0.979	- / 5.406	- / 15.906	
<i>Subtotal: Support</i>	- / 12.720	- / 1.300	- / 0.420	- / 1.540	- / -	- / 1.540	- / 2.131	- / 2.042	- / 2.082	- / 2.406	- / 11.143	- / 35.784	
Installation													
<i>Modification Item 1 of 1:</i> H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)	- / 0.000	- / 3.000	- / 0.820	- / 1.200	- / 0.000	- / 1.200	- / 3.000	- / 2.700	- / 0.000	- / 8.100	- / 33.000	- / 51.820	
<i>Subtotal: Installation</i>	- / 0.000	- / 3.000	- / 0.820	- / 1.200	- / -	- / 1.200	- / 3.000	- / 2.700	- / -	- / 8.100	- / 33.000	- / 51.820	
Total													
Total Cost (Procurement + Support + Installation)	77.385	12.084	8.170	12.569	0.000	12.569	19.855	37.596	24.280	68.655	226.625	487.219	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series				Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)												
Manufacturer Information												
Manufacturer Name: TBD-APR-39D(V)2 (UH-1Y)							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 1							Production Leadtime (in Months): 8					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Oct 2018	Oct 2019	Oct 2020		Oct 2022					
Delivery Dates			Jun 2019	Jun 2020	Jun 2021		Jun 2023					
Manufacturer Name: Lockheed Martin Corporation-BSLST							Manufacturer Location: Florida					
Administrative Leadtime (in Months): 10							Production Leadtime (in Months): 1					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Jul 2017	Jul 2018										
Delivery Dates	Aug 2017	Aug 2018										
Manufacturer Name: CRSA LLC							Manufacturer Location: Falls Church, VA					
Administrative Leadtime (in Months): 5							Production Leadtime (in Months): 4					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Feb 2017											
Delivery Dates	Jun 2017											
Installation Information												
Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: Distributed Aperture Infrared Countermeasures												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	20 / 2.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 2.410
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	20 / 2.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 2.410

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0532 / H-1 Series											Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: Distributed Aperture Infrared Countermeasures																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	4	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20		
Out	-	-	-	-	4	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20		

Method of Implementation: Contractor Field Mod Team:: Installation Name: BRITE Star BLK II Laser Spot Tracker (UH-1Y)												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	62 / 0.590	62 / 0.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	124 / 1.180
FY 2017	- / -	- / -	36 / 0.230	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	36 / 0.230
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	62 / 0.590	98 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	160 / 1.410

Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	62	-	-	-	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160		
Out	-	-	-	-	-	20	21	21	49	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0532 / H-1 Series										Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)												
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																	
Modification Item 1 of 1: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)																																
Installation Information																																
Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: APR-39D(V)2 (UH-1Y)																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
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		- / -	- / -	- / -	4 / 1.200	0 / 0.000	4 / 1.200	- / -	- / -	- / -	- / -	0 / 0.000	4 / 1.200																			
		- / -	- / -	- / -	- / -	- / -	- / -	10 / 3.000	- / -	- / -	- / -	0 / 0.000	10 / 3.000																			
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.700	- / -	- / -	0 / 0.000	9 / 2.700																			
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 8.100	0 / 0.000	27 / 8.100																			
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 33.000	110 / 33.000																			
		- / -	- / -	- / -	4 / 1.200	0 / 0.000	4 / 1.200	10 / 3.000	9 / 2.700	- / -	27 / 8.100	110 / 33.000	160 / 48.000																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	5	5	-	-	5	4	-	-	-	-	-	-	13	14	110	160	
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	5	5	-	-	5	4	-	-	-	-	-	-	-	13	124	160
Method of Implementation (Organic): APR-39D(V)2 (UH-1Y)																				Installation Quantity: 160												
Method of Implementation (Organic): Archived Mods - Not Installed																				Installation Quantity: 180												
Method of Implementation (Organic): Target Sight System (TSS) Block Upgrade (AH-1Z)																				Installation Quantity: 208												
Method of Implementation (Organic): OTO Helmet Mounted Sight and Display Reliability Kit (UH-1Y/AH-1Z)																				Installation Quantity: 1200												
Method of Implementation (Organic): Archived Mods - Not Installed																				Installation Quantity: 47												

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: ⁽⁸⁾ The UH-1Y is only equipped with the legacy APR-39D(V)2 system. Increase in FY 2019 with the modification of (4) UH-1Y's allows the Marine Corps the flexibility to deploy aircraft with a common digital processor type, that will enhance situational awareness, enhance effectiveness and suitability in complex, hostile environments in support of Marine Expeditionary Operations. ⁽⁹⁾ FY 2017 OCO funding for Distributed Aperture Infrared Countermeasures (DAIRCM) has moved to OSIP 16-12, Sensors & Weapons IPT, from OSIP 15-12, Avionics IPT. DAIRCM funds, provided under the Rapid Acquisition Authority (RAA) are to complete installation of the Joint Urgent Operational Need Statement (JUONS) DAIRCM system on 18 fleet H-1 aircraft to support deployments with the upgraded IR/ LASER threat detection system. ⁽¹⁰⁾ Increase in FY 2019 NRE is for APR-39D(V)2 to complete retrofit kit in order to begin fleet installation of the upgraded RADAR detection system. ⁽¹¹⁾ The USMC H-1 Operating Forces Capabilities Planning Document identifies the need for an electro-optical system capable of automatically detecting laser designator energy for purposes of target handoff operations. The Target Sight System (TSS) Block Upgrade includes the TSS Laser Spot Tracker, Turret Electronic Unit, and High Definition upgrade to enable the AH-1Z to detect, acquire, and track laser designator energy for more expeditious target handoff and engagement. Procurement of equipment begins in FY 2019. ⁽¹²⁾ Readiness increase in FY 2017 is for the procurement of Optimized TopOwl (OTO) display module external protection kits. The OTO display modules have experienced a significant failure rate and the design is being improved during FY 2017 to address the failure modes. ⁽¹³⁾ The UH-1Y is only equipped with the legacy APR-39D(V)2 system. Increase in FY 2019 with the modification of (4) UH-1Y's allows the Marine Corps the flexibility to deploy aircraft with a common digital processor type, that will enhance situational awareness, enhance effectiveness and suitability in complex, hostile environments in support of Marine Expeditionary Operations. ⁽¹⁴⁾ Increase in FY 2018 Installation Equipment N/R (material, engineering and test) required for Target Sight Sensor (TSS) Block Upgrade. Without the N/R TSS block upgrade will be forced to continue utilizing the current TSS which has deficiencies that impact AH-1Z situational awareness and reduces the capability in the employment of the Joint Air To Ground Missile (JAGM) scheduled to IOC in FY 2019. ⁽¹⁵⁾ Increases in FY 2019 provides publications for APR-39D(V)2 and TSS Block Upgrade. ⁽¹⁶⁾ Increases in FY 2019 provides logistics support for APR-39D(V)2 and TSS Block Upgrade. ⁽¹⁷⁾ Increases in FY 2019 provides technical support for APR-39D(V)2 and TSS Block Upgrade.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	21.640	13.864	57.679	40.871	0.000	40.871	44.917	78.325	94.021	91.204	335.679	778.200
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	21.640	13.864	57.679	40.871	0.000	40.871	44.917	78.325	94.021	91.204	335.679	778.200
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	21.640	13.864	57.679	40.871	0.000	40.871	44.917	78.325	94.021	91.204	335.679	778.200
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety and Improvement Program (OSIP) incorporates a number of modifications to H-1 air vehicle systems, specifically attacking the highest readiness degraders to reduce the total cost of ownership while improving ready-based aircraft and ready-for-tasking rates. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable H-1 force to sustain warfighter capability in support of worldwide operations. Planned modifications cover airframes (structural and air vehicle systems), propulsion, survivability, reliability and maintainability, fuel systems, electrical power, drives, engines, rotors, flying qualities, flight controls, human factors, systems thermodynamics, and weight and balance. Particular focus is on continuously reducing total ownership costs by increasing component time on the aircraft. During full scale development testing of the H-1 Upgrades aircraft, data evaluation showed that incorporation of redesigned components applicable to the critical load paths will significantly increase the service life of the aircraft and components to meet the life limit of 10,000 flight hours. Safety programs include, cargo door latch, external lights, and mission grip mounts. Reliability and maintainability modifications items include, the aircraft electrical system, power distribution system, fuel cells, canopy frame, bushings, blade fold rack, gearboxes, standpipes, fuselage/cabin/seats, external lights, engine mount and tail boom bearings, main and tail rotor components, aircraft Nickel Cadmium battery, hydraulic distribution, weight reduction initiatives, swashplate, integrated mechanical diagnostic system, clearances, drive system, systems heating/cooling, corrosion/water intrusion control, rotor blade and gun turret covers, engine cowlings, and airframe structural robustness including access panels. Dynamic Component Reliability includes improvements/upgrades to: rotor brake system, Main Rotor Gear Box (MRGB) PC2 pump quill, desiccant breather, input quills, MRGB tiltball, and main rotor mast. Survivability modifications include, Improved Defensive Armament System (IDAS) for carrying stores (UH-1Y machine guns, rocket pods, fuel tanks, etc.), and armored flooring. Electrical power modifications include generators and inverters. Other structural modifications include: swash plate assembly, clamp ring assembly, composite elevator, tail boom assembly, main rotor blades, and canopies. Human factor improvements include Aircrew Restraint System (ARS). Propulsion improvements to tail boom wiring and drives. Thermal cooling improvements include Environmental Cooling System (ECS). DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Rotor Break System specification completed. PC2 Quill housing design completed. Cargo door latch (a safety issue correction) Critical Design Review (CDR) completed.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1W/Z			Modification Type: Safety/Reliability Improvements					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)													
A Kits													
Recurring													
1.1.1) Tail Boom Clamp and Retainer Mod (UH-1Y/AH-1Z) - NonOrganic		60 / 0.631	15 / 0.222	4 / 0.060	2 / 0.031	- / -	2 / 0.031	16 / 0.252	15 / 0.244	- / -	- / -	- / -	112 / 1.440
1.1.2) Standpipe Improvements (UH-1Y/AH-1Z) - Organic		75 / 0.225	52 / 0.159	52 / 0.166	52 / 0.174	- / -	52 / 0.174	59 / 0.207	59 / 0.215	- / -	- / -	- / -	349 / 1.146
1.1.3) Main Rotor Gear Box (MRGB) Pylon Strap Rivets (UH-1Y) - NonOrganic		27 / 0.004	10 / 0.002	10 / 0.002	20 / 0.004	- / -	20 / 0.004	49 / 0.011	20 / 0.005	20 / 0.007	- / -	- / -	156 / 0.035
1.1.4) Heat Exchange Airframe Mounting Mod (UH-1Y/AH-1Z) - Organic		40 / 0.184	24 / 0.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / 0.297
1.1.5) Tail Rotor Drive Shaft (TRDS) Clearance Improvements (UH-1Y/AH-1Z) - Organic		- / -	- / -	50 / 0.475	40 / 0.380	- / -	40 / 0.380	80 / 0.760	105 / 0.998	74 / 0.703	- / -	- / -	349 / 3.316
1.1.6) Tailboom Stinger (UH-1Y/AH-1Z) - NonOrganic		15 / 0.100	20 / 0.136	15 / 0.110	30 / 0.239	- / -	30 / 0.239	30 / 0.254	62 / 0.556	60 / 0.566	74 / 0.667	- / -	306 / 2.628
1.1.7) Cargo Door Latch (UH-1Y) - NonOrganic		- / -	- / -	2 / 0.073	10 / 0.380	- / -	10 / 0.380	18 / 0.725	30 / 1.238	20 / 0.864	- / -	- / -	80 / 3.280
1.1.8) Swashplate Improvements (UH-1Y/AH-1Z) - Organic		- / -	- / -	- / -	39 / 0.390	- / -	39 / 0.390	52 / 0.520	52 / 0.520	52 / 0.520	38 / 0.380	- / -	233 / 2.330
1.1.9) Environmental Control System (ECS) Thermal (UH-1Y/AH-1Z) - NonOrganic		- / -	- / -	- / -	20 / 2.472	- / -	20 / 2.472	28 / 3.514	50 / 6.400	40 / 5.200	39 / 5.148	172 / 23.048	349 / 45.782
1.1.10) Structural Improvements (UH-1Y) - Organic		- / -	- / -	- / -	4 / 1.600	- / -	4 / 1.600	8 / 3.208	33 / 13.283	24 / 9.696	24 / 9.732	67 / 27.123	160 / 64.642
1.1.11) Electrical Power Upgrades (UH-1Y/AH-1Z) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 9.450	229 / 63.840	264 / 73.290
1.1.12) Main Rotor (MR) Mast (UH-1Y/AH-1Z) - Organic		- / -	- / -	- / -	- / -	- / -	- / -	75 / 0.375	75 / 0.375	80 / 0.400	80 / 0.400	39 / 0.195	349 / 1.745
Subtotal: Recurring		- / 1.144	- / 0.632	- / 0.886	- / 5.670	- / -	- / 5.670	- / 9.826	- / 23.834	- / 17.956	- / 25.777	- / 114.206	- / 199.931
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽¹⁸⁾		- / 1.589	- / 1.480	- / 1.325	- / 1.979	- / -	- / 1.979	- / 0.488	- / 0.905	- / 2.232	- / -	- / 3.776	- / 13.774
Subtotal: Non-Recurring		- / 1.589	- / 1.480	- / 1.325	- / 1.979	- / -	- / 1.979	- / 0.488	- / 0.905	- / 2.232	- / -	- / 3.776	- / 13.774
B Kits													
Recurring													
2.1.1) External Lights (AH-1Z) - Organic		87 / 4.393	13 / 0.733	20 / 1.130	20 / 1.133	- / -	20 / 1.133	20 / 1.136	15 / 0.855	14 / 0.803	- / -	- / -	189 / 10.183
2.1.2) External Lights (UH-1Y) - Organic		146 / 6.779	10 / 0.469	4 / 0.219	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 7.467
2.1.3) Mission Grip Mount (AH-1Z) - Organic		98 / 0.244	25 / 0.070	22 / 0.065	22 / 0.068	- / -	22 / 0.068	22 / 0.074	- / -	- / -	- / -	- / -	189 / 0.521
2.1.4) T700-401C (AH-1Z Reman) - Organic		- / -	- / -	25 / 42.000	3 / 5.040	- / -	3 / 5.040	- / -	- / -	- / -	4 / 6.720	4 / 6.720	36 / 60.480

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1W/Z			Modification Type: Safety/Reliability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.5) Structural Improvements (UH-1Y) - Organic	- / -	- / -	- / -	4 / 0.720	- / -	4 / 0.720	8 / 1.469	25 / 4.682	36 / 6.804	36 / 6.887	51 / 9.643	160 / 30.205
2.1.6) Environmental Control System (ECS) Thermal (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	20 / 8.000	- / -	20 / 8.000	28 / 11.270	50 / 20.250	40 / 16.280	39 / 15.951	172 / 70.692	349 / 142.443
2.1.7) Electrical Power Upgrades (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.568	262 / 74.467	264 / 75.035
2.1.8) Main Rotor Gear Box (MRGB) PC2 Pump Quill (UH-1Y/AH-1Z) - Organic	- / -	- / -	40 / 0.600	40 / 0.600	- / -	40 / 0.600	60 / 0.900	45 / 0.675	5 / 0.075	- / -	- / -	190 / 2.850
2.1.9) Rotor Brake System (UH-1Y/AH-1Z) - Organic	- / -	- / -	5 / 1.250	37 / 9.250	- / -	37 / 9.250	43 / 10.750	51 / 12.750	140 / 35.000	76 / 19.000	- / -	352 / 88.000
2.1.10) Desiccant Breather (UH-1Y/AH-1Z) - Organic (19)	- / -	150 / 0.300	50 / 0.100	60 / 0.120	- / -	60 / 0.120	80 / 0.160	16 / 0.032	- / -	- / -	- / -	356 / 0.712
2.1.11) Input Quills (UH-1Y/AH-1Z) - Organic	- / -	- / -	10 / 0.100	50 / 0.500	- / -	50 / 0.500	71 / 0.710	60 / 0.600	80 / 0.800	77 / 0.770	- / -	348 / 3.480
2.1.12) Main Rotor Gear Box (MRGB) Tiltball (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.600	77 / 0.770	95 / 0.950	114 / 1.140	- / -	346 / 3.460
2.1.13) Inverters (UH-1Y) - Organic ⁽²⁰⁾	- / -	102 / 2.958	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	58 / 1.682	160 / 4.640
Subtotal: Recurring	- / 11.416	- / 4.530	- / 45.464	- / 25.431	- / -	- / 25.431	- / 27.069	- / 40.614	- / 60.712	- / 51.036	- / 163.204	- / 429.476
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic	- / 4.356	- / 4.715	- / 7.955	- / 1.977	- / -	- / 1.977	- / 0.487	- / 0.945	- / 1.035	- / -	- / 4.815	- / 26.285
Subtotal: Non-Recurring	- / 4.356	- / 4.715	- / 7.955	- / 1.977	- / -	- / 1.977	- / 0.487	- / 0.945	- / 1.035	- / -	- / 4.815	- / 26.285
Subtotal: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)	548 / 18.505	421 / 11.357	309 / 55.630	473 / 35.057	- / -	473 / 35.057	807 / 37.870	840 / 66.298	780 / 81.935	638 / 76.813	1,054 / 286.001	5,870 / 669.466
Subtotal: Procurement, All Modification Items	- / 18.505	- / 11.357	- / 55.630	- / 35.057	- / -	- / 35.057	- / 37.870	- / 66.298	- / 81.935	- / 76.813	- / 286.001	- / 669.466
Support (All Modification Items)												
3.2) Data ⁽²¹⁾	- / 0.067	- / 0.346	- / 0.310	- / 0.493	- / -	- / 0.493	- / 0.633	- / 1.972	- / 1.780	- / 0.879	- / -	- / 6.480
3.4) Support Equipment ⁽²²⁾	- / 0.292	- / 1.030	- / 0.094	- / 0.056	- / -	- / 0.056	- / 0.065	- / 0.063	- / 0.090	- / -	- / -	- / 1.690
3.5) ILS ⁽²³⁾	- / 0.390	- / 0.347	- / 0.550	- / 0.670	- / -	- / 0.670	- / 0.820	- / 0.900	- / 1.160	- / 1.378	- / 0.852	- / 7.067
3.6) Other Support ⁽²⁴⁾	- / 1.767	- / 0.375	- / 0.789	- / 1.668	- / -	- / 1.668	- / 0.962	- / 1.746	- / 3.098	- / 3.328	- / 4.942	- / 18.675
Subtotal: Support	- / 2.516	- / 2.098	- / 1.743	- / 2.887	- / -	- / 2.887	- / 2.480	- / 4.681	- / 6.128	- / 5.585	- / 5.794	- / 33.912
Installation												
Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)	- / 0.619	- / 0.409	- / 0.306	- / 2.927	- / 0.000	- / 2.927	- / 4.567	- / 7.346	- / 5.958	- / 8.806	- / 43.884	- / 74.822
Subtotal: Installation	- / 0.619	- / 0.409	- / 0.306	- / 2.927	- / -	- / 2.927	- / 4.567	- / 7.346	- / 5.958	- / 8.806	- / 43.884	- / 74.822
Total												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)			
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1W/Z				Modification Type: Safety/Reliability Improvements				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Total Cost (Procurement + Support + Installation)	21.640	13.864	57.679	40.871	0.000	40.871	44.917	78.325	94.021	91.204	335.679

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series		Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)							
Manufacturer Information							
Manufacturer Name: Depot - Main Rotor Gear Box (MRGB) Plyon Strap Rivets				Manufacturer Location: North Carolina			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	
Delivery Dates	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	
Manufacturer Name: Depot - Tail Boom Clamp and Retainer Mod				Manufacturer Location: North Carolina			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020		
Delivery Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021		
Manufacturer Name: TBD-Electrical Power Upgrades (UH-1Y/AH-1Z)				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							Dec 2022
Delivery Dates							Feb 2023
Manufacturer Name: Depot -Environmental Control System (ECS) Thermal				Manufacturer Location: North Carolina			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022
Delivery Dates			Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Manufacturer Name: Depot- Tailboom Stinger				Manufacturer Location: North Carolina			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022
Delivery Dates	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022	Jun 2023
Manufacturer Name: Depot-Cargo Door Latch				Manufacturer Location: North Carolina			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Manufacturer Information

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates		Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	

Installation Information

Method of Implementation: Depot Field Modification Team:: Installation Name: Tail Boom Clamp and Retainer Mod (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	60 / 0.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.344
FY 2017	- / -	15 / 0.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	15 / 0.164
FY 2018	- / -	- / -	4 / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.045
FY 2019	- / -	- / -	- / -	2 / 0.022	0 / 0.000	2 / 0.022	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.022
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.170	- / -	- / -	- / -	0 / 0.000	16 / 0.170
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.160	- / -	- / -	0 / 0.000	15 / 0.160
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	60 / 0.344	15 / 0.164	4 / 0.045	2 / 0.022	0 / 0.000	2 / 0.022	16 / 0.170	15 / 0.160	- / -	- / -	0 / 0.000	112 / 0.905

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	60	-	5	5	5	-	1	1	2	-	1	1	-	-	6	5	5	-	5	5	5	-	-	-	-	-	-	-	-	-	112
Out	60	-	5	5	5	-	1	1	2	-	1	1	-	-	6	5	5	-	5	5	5	-	-	-	-	-	-	-	-	-	112

Method of Implementation: Depot Field Modification Team:: Installation Name: Main Rotor Gear Box (MRGB) Pylon Strap Rivets (UH

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	27 / 0.170	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	27 / 0.170
FY 2017	- / -	10 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.105
FY 2018	- / -	- / -	10 / 0.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.112
FY 2019	- / -	- / -	- / -	20 / 0.232	0 / 0.000	20 / 0.232	- / -	- / -	- / -	- / -	0 / 0.000	20 / 0.232

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Installation Information

Method of Implementation: Depot Field Modification Team:: Installation Name: Main Rotor Gear Box (MRGB) Pylon Strap Rivets (UH

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	49 / 0.586	- / -	- / -	- / -	0 / 0.000	49 / 0.586
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.244	- / -	- / -	0 / 0.000	20 / 0.244
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.301	- / -	0 / 0.000	20 / 0.301
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	27 / 0.170	10 / 0.105	10 / 0.112	20 / 0.232	0 / 0.000	20 / 0.232	49 / 0.586	20 / 0.244	20 / 0.301	- / -	0 / 0.000	156 / 1.750

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	27	-	-	5	5	-	-	5	5	-	-	10	10	-	-	24	25	-	-	10	10	-	-	10	10	-	-	-	-	-	156
Out	25	2	-	-	5	5	-	-	5	5	-	-	10	10	-	-	24	25	-	-	10	10	-	-	10	10	-	-	-	-	156

Method of Implementation: Depot Field Mod Team:: Installation Name: Tailboom Stinger (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	15 / 0.105
FY 2017	- / -	20 / 0.140	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 0.140
FY 2018	- / -	- / -	15 / 0.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	15 / 0.109
FY 2019	- / -	- / -	- / -	30 / 0.218	0 / 0.000	30 / 0.218	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.218
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.227	- / -	- / -	- / -	0 / 0.000	30 / 0.227
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 0.479	- / -	- / -	0 / 0.000	62 / 0.479
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.489	- / -	0 / 0.000	60 / 0.489
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 0.626	0 / 0.000	74 / 0.626
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 0.105	20 / 0.140	15 / 0.109	30 / 0.218	0 / 0.000	30 / 0.218	30 / 0.227	62 / 0.479	60 / 0.489	74 / 0.626	0 / 0.000	306 / 2.393

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0532 / H-1 Series											Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)									
ID Code (A=Service Ready, B=Not Service Ready) :																MDAP/MAIS Code:															
Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)																															
Installation Information																															
Method of Implementation: Depot Field Mod Team:: Installation Name: Tailboom Stinger (UH-1Y/AH-1Z)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	15	-	-	10	10	-	-	7	8	-	-	15	15	-	-	15	15	-	-	31	31	-	-	30	30	-	-	37	37	-	306
Out	15	-	-	10	10	-	-	7	8	-	-	15	15	-	-	15	15	-	-	31	31	-	-	30	30	-	-	37	37	-	306
Method of Implementation: Depot Field Modification Team:: Installation Name: Cargo Door Latch (UH-1Y)																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		2 / 0.040		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		2 / 0.040					
FY 2019		- / -		- / -		- / -		10 / 0.215		0 / 0.000		10 / 0.215		- / -		- / -		- / -		- / -		- / -		0 / 0.000		10 / 0.215					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		18 / 0.392		- / -		- / -		- / -		- / -		0 / 0.000		18 / 0.392					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		30 / 0.663		- / -		- / -		- / -		0 / 0.000		30 / 0.663					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		20 / 0.448		- / -		- / -		0 / 0.000		20 / 0.448					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		2 / 0.040		10 / 0.215		0 / 0.000		10 / 0.215		18 / 0.392		30 / 0.663		20 / 0.448		- / -		0 / 0.000		80 / 1.758							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	1	1	-	-	4	3	3	-	6	6	6	-	10	10	10	-	7	7	6	-	-	-	-	-	80
Out	-	-	-	-	-	-	-	1	1	-	-	4	3	3	-	6	6	6	-	10	10	10	-	7	7	6	-	-	-	-	80

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Installation Information

Method of Implementation: Depot Field Modification Team:: Installation Name: Environmental Control System (ECS) Thermal (UH-1Y)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	20 / 2.240	0 / 0.000	20 / 2.240	- / -	- / -	- / -	- / -	0 / 0.000	20 / 2.240
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	28 / 3.192	- / -	- / -	- / -	0 / 0.000	28 / 3.192
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 5.800	- / -	- / -	0 / 0.000	50 / 5.800
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 4.720	- / -	0 / 0.000	40 / 4.720
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 4.680	0 / 0.000	39 / 4.680
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	172 / 20.984	172 / 20.984
Total	- / -	- / -	- / -	20 / 2.240	0 / 0.000	20 / 2.240	28 / 3.192	50 / 5.800	40 / 4.720	39 / 4.680	172 / 20.984	349 / 41.616

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	6	7	7	-	9	9	10	-	16	17	17	-	13	13	14	-	13	13	13	172	349
Out	-	-	-	-	-	-	-	-	-	-	-	6	7	7	-	9	9	10	-	16	17	17	-	13	13	14	-	13	13	185	349

Method of Implementation: Contractor Field Mod Team:: Installation Name: Electrical Power Upgrades (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 3.500	0 / 0.000	35 / 3.500

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0532 / H-1 Series										Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)												
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																	
Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)																																
Installation Information																																
Method of Implementation: Contractor Field Mod Team:: Installation Name: Electrical Power Upgrades (UH-1Y/AH-1Z)																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	229 / 22.900	229 / 22.900																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 3.500	229 / 22.900	264 / 26.400																		
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot	
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	12	12	229	264	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	12	241	264	
Method of Implementation (Organic): Standpipe Improvements (UH-1Y/AH-1Z)																				Installation Quantity: 349												
Method of Implementation (Organic): Heat Exchange Airframe Mounting Mod (UH-1Y/AH-1Z)																				Installation Quantity: 64												
Method of Implementation (Organic): Tail Rotor Drive Shaft (TRDS) Clearance Improvements (UH-1Y/AH-1Z)																				Installation Quantity: 349												
Method of Implementation (Organic): Swashplate Improvements (UH-1Y/AH-1Z)																				Installation Quantity: 233												
Method of Implementation (Organic): Structural Improvements (UH-1Y)																				Installation Quantity: 160												
Method of Implementation (Organic): Main Rotor (MR) Mast (UH-1Y/AH-1Z)																				Installation Quantity: 349												
Method of Implementation (Organic): External Lights (AH-1Z)																				Installation Quantity: 189												
Method of Implementation (Organic): External Lights (UH-1Y)																				Installation Quantity: 160												

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)		
Installation Information		
Method of Implementation (Organic): Mission Grip Mount (AH-1Z)		Installation Quantity: 189
Method of Implementation (Organic): T700-401C (AH-1Z Reman)		Installation Quantity: 36
Method of Implementation (Organic): Structural Improvements (UH-1Y)		Installation Quantity: 160
Method of Implementation (Organic): Environmental Control System (ECS) Thermal (UH-1Y/AH-1Z)		Installation Quantity: 349
Method of Implementation (Organic): Electrical Power Upgrades (UH-1Y/AH-1Z)		Installation Quantity: 264
Method of Implementation (Organic): Main Rotor Gear Box (MRGB) PC2 Pump Quill (UH-1Y/AH-1Z)		Installation Quantity: 190
Method of Implementation (Organic): Rotor Brake System (UH-1Y/AH-1Z)		Installation Quantity: 352
Method of Implementation (Organic): Desiccant Breather (UH-1Y/AH-1Z)		Installation Quantity: 356
Method of Implementation (Organic): Input Quills (UH-1Y/AH-1Z)		Installation Quantity: 348
Method of Implementation (Organic): Main Rotor Gear Box (MRGB) Tiltball (UH-1Y/AH-1Z)		Installation Quantity: 346
Method of Implementation (Organic): Inverters (UH-1Y)		Installation Quantity: 160
Footnotes: ⁽¹⁸⁾ Increase in FY 2019 provides supports Main Rotor (MR) Mast, ECS and Structural Improvements. ⁽¹⁹⁾ Increase in FY 2019 provides modifications supporting the Desiccant Breather which allows the breather tube to filter the moisture out of the Main Rotor Gear Box (MRGB) ambient air preventing it from entering the MRGB and causing corrosion. ⁽²⁰⁾ Readiness increase in FY 2017 for (102) Inverters will impact readiness of the UH-1Y Fleet significantly. Existing UH-1Y inverters are currently experiencing high rates of failure (low reliability) which is having a negative effect on the readiness of the UH-1Y Fleet. Reports show these inverters have a Mean Time Between Failure (MTBF) average of 263 hrs. The new DSP-type inverter calculated MTBF is 3,468 hrs. Replacing old inverters with new DSP-type inverters increases time between replacement by ~3,205 hours per unit.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(21) Increase in FY 2019 provides publications for ECS thermal, rotor brake system, MRGB PC2 Pump Quill. (22) Readiness increase in FY 2017 is for Main Rotor Yoke Tooling. (23) Increase in FY 2019 provides logistic support for swashplate improvements, ECS thermal and structural improvements. (24) Increase in FY 2019 provides technical support for swashplate improvements, ECS thermal and structural improvements.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series						Modification Number / Title: 4 / INACTIVE OSIPS		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	285.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	285.029
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	285.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	285.029
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	285.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	285.029
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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LI 0532 - H-1 Series
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 4 / INACTIVE OSIPS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: INACTIVE OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0537 / EP-3 Series

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,309.264	28.186	14.451	3.633	5.380	9.013	8.669	8.946	0.000	0.000	-	1,378.529
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,309.264	28.186	14.451	3.633	5.380	9.013	8.669	8.946	0.000	0.000	-	1,378.529
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,309.264	28.186	14.451	3.633	5.380	9.013	8.669	8.946	0.000	0.000	-	1,378.529
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the EP-3E aircraft. The EP-3E is a land based, long range aircraft with electronic intercept devices for detection and tracking of enemy Radio Detection and Ranging and communications.

In Operational, Safety and Improvement Program (OSIP) 11-01, the Joint Airborne Signal Intelligence Architecture Modification Common Configuration (JCC) obsolescence Engineering Change Orders (ECO) improves operational capability and aircrew productivity by updating the Electronic Support Measures systems, applying state-of-the-art signal exploitation/processing/display techniques, off-board classified communication, and expanding special signal processing capability. OSIP 14-05 responds to the current, immediate demand for information operations capabilities on the EP-3E in Overseas Contingency Operations (OCO).

Research and Development is funded with National Security Agency (NSA) Military Intelligence Program (MIP) funds. This OSIP provides the procurement tail for Research, Development, Test and Evaluation (RDT&E) funds from the Navy's Advanced Signal Recognition line (Program Element 0305206N). The NSA RDT&E line for the Navy Airborne Sensor System Improvements funds sensor improvements with application for the EP-3E. MIP RDT&E funds are responsible for the development and acquisition of EP-3E sensors, data links, data relays and ground stations to achieve and maintain interoperability with Defense-wide airborne reconnaissance assets. Active Primary Aircraft Authorization inventory is 12. Funds budgeted in FY2017-FY2021 are to continue EP-3E Joint Airborne Signal Intelligence Architecture Modification Common Configuration Program. The EP-3E has an average age of 38.5 years.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy	Date: February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0537 / EP-3 Series

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / JSAF Modification (JMOD) - OSIP 11-01 (Operational Improvement / Modernization)				- / 727.538	- / 20.681	- / 7.231	- / 3.633	- / 0.000	- / 3.633
P-3a	2 / EP-3E Info Operations - OSIP 14-05 (Operational Improvement / Modernization)				- / 201.815	- / 7.505	- / 7.220	- / 0.000	- / 5.380	- / 5.380
P-3a	3 / Inactive OSIPS (Operational Improvement / Modernization)				- / 379.911	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,309.264	- / 28.186	- / 14.451	- / 3.633	- / 5.380	- / 9.013

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / JSAF Modification (JMOD) - OSIP 11-01 (Operational Improvement / Modernization)				- / 8.669	- / 8.946	- / 0.000	- / 0.000	- / 0.000	- / 776.698
P-3a	2 / EP-3E Info Operations - OSIP 14-05 (Operational Improvement / Modernization)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 221.920
P-3a	3 / Inactive OSIPS (Operational Improvement / Modernization)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 379.911
P-40	Total Gross/Weapon System Cost				- / 8.669	- / 8.946	- / 0.000	- / 0.000	- / -	- / 1,378.529

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2019 funding request was reduced by \$3.175 million to account for the availability of prior year execution balances.

The FY 2019 funding request was reduced by \$0.103 million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

OCO:

FY2019 OCO Request for \$5.380M for Increased Capability Special Collection Equipment (ICSCE). Effort procures and rapidly integrates ICSCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). FY2019 OCO funds will install new collection capabilities required by the COCOM on EP-3E aircraft. Specific operational details can be provided in a classified forum.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0537 / EP-3 Series						Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	727.538	20.681	7.231	3.633	0.000	3.633	8.669	8.946	0.000	0.000	0.000	776.698
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	727.538	20.681	7.231	3.633	0.000	3.633	8.669	8.946	0.000	0.000	0.000	776.698
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	727.538	20.681	7.231	3.633	0.000	3.633	8.669	8.946	0.000	0.000	0.000	776.698
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The EP-3E JCC Program is an upgrade to the capabilities of the Sensor System Improvement Program (SSIP) configuration of the EP-3E. This Operational, Safety and Improvement Program (OSIP) responds to Operational Requirements Document (ORD) #571-78-01 and the CAPSTONE ORD #CAF-002-88. JCC is designed as an evolutionary acquisition program consisting of spiral upgrades. JCC Spirals include an updated EP-3E infrastructure, improved auto-Electronic Support Measures (ESM) with the Story Finder system, incorporated Joint Signal Processor, incorporated SSIP corrections, incorporated low band capability which improves special collection capability, Information Operations and incorporated Quick Reaction Capabilities (QRC). Data Fusion capability is currently deferred. This OSIP also allows the EP-3E the flexibility to react in real time against current and new emerging threats with the most sophisticated equipment available. This flexibility allows upgrades to current aircraft and training systems, modernization of computer / software based applications and will maintain Information Assurance requirements as upgrades are performed to support critical missions deemed vital to our national security. In OSIP 11-01, Spiral 3 procurement began in FY11 with Low Band Communication System Upgrades, IO capability, Environmental Control System modification, QRC and the replacement of aging and obsolescence aircraft antenna arrays. QRC funds address mission avionics system obsolescence and emerging requirements. This OSIP includes JCC Obsolescence funding to replace subsystem obsolescence to ensure EP-3E viability until aircraft recapitalization. JCC Obsolescence and ILS are aligned to meet Electronic Intelligence, Communications Intelligence, Communications, Mission Management and Special Signals obsolescence requirements in order to support EP mod transition to Multi-INT Family of Systems (FoS). DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: JCC Spiral 3 LRIP decision was approved on 25 February 2011 NOTES: 1) Other Support includes Navy Test for Obsolescence 2) Install Schedule based on Projected Aircraft Availability 3) Obsolescence quantities include various mission equipment quantities. Quantities cannot be defined due to unknown obsolescence issues. 4) FY-17 through FY-21 NRE, ECO, Data, Training Equipment and Support Equipment supports EP-3E Obsolescence issues. 5) The FY 2019 funding request was reduced by \$3.278 million to account for the availability of prior year execution balances.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0537 / EP-3 Series					Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: EP-3E				Modification Type: Operational Improvement / Modernization				Related RDT&E PEs: 0305206N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: JSAF Modification (JMOD) - OSIP 11-01													
A Kits													
Recurring													
1.1.1) Prior Year Archive - Organic	12 / 47.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 47.751	
Subtotal: Recurring	- / 47.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 47.751	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 24.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.465	
Subtotal: Non-Recurring	- / 24.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 24.465	
B Kits													
Recurring													
2.1.1) Prior Year Archive - Organic	9 / 178.808	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 178.808	
Subtotal: Recurring	- / 178.808	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 178.808	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 45.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 45.191	
Subtotal: Non-Recurring	- / 45.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 45.191	
Subtotal: JSAF Modification (JMOD) - OSIP 11-01	21 / 296.215	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 296.215	
Subtotal: Procurement, All Modification Items	- / 296.215	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 296.215	
Support (All Modification Items)													
3.2) JCC Obsolescence ⁽¹⁾	8,001 / 190.096	- / 7.973	- / 3.344	- / 0.405	- / -	- / 0.405	- / 4.493	- / 4.332	- / -	- / -	- / -	8,001 / 210.643	
3.3) QRC	- / 2.728	- / 0.865	- / 0.880	- / 0.880	- / -	- / 0.880	- / 0.803	- / 0.800	- / -	- / -	- / -	- / 6.956	
3.4) Data	- / 15.449	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.050	- / 0.050	- / -	- / -	- / -	- / 15.849	
3.5) Training Equipment	- / 16.737	- / 0.600	- / 0.639	- / 0.381	- / -	- / 0.381	- / 0.365	- / 0.632	- / -	- / -	- / -	- / 19.354	
3.6) Support Equipment	- / 18.020	- / 0.200	- / 0.200	- / 0.100	- / -	- / 0.100	- / 0.050	- / 0.100	- / -	- / -	- / -	- / 18.670	
3.7) ILS	- / 31.124	- / 0.500	- / 0.810	- / 0.406	- / -	- / 0.406	- / 0.348	- / 0.778	- / -	- / -	- / -	- / 33.966	
3.8) Other Support	- / 109.465	- / 1.648	- / 0.458	- / 0.512	- / -	- / 0.512	- / 0.408	- / 0.420	- / -	- / -	- / -	- / 112.911	
Subtotal: Support	- / 383.619	- / 11.886	- / 6.431	- / 2.784	- / -	- / 2.784	- / 6.517	- / 7.112	- / -	- / -	- / 0.000	- / 418.349	
Installation													
Subtotal: Installation	- / 47.704	- / 8.795	- / 0.800	- / 0.849	- / -	- / 0.849	- / 2.152	- / 1.834	- / -	- / -	- / 0.000	- / 62.134	

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0537 / EP-3 Series					Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: EP-3E				Modification Type: Operational Improvement / Modernization				Related RDT&E PEs: 0305206N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total													
Total Cost (Procurement + Support + Installation)		727.538	20.681	7.231	3.633	0.000	3.633	8.669	8.946	0.000	0.000	0.000	776.698

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0537 / EP-3 Series			Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: JSAF Modification (JMOD) - OSIP 11-01							
Manufacturer Information							
Manufacturer Name: TBD - Obsolescence ECP's ⁽²⁾					Manufacturer Location: TBD		
Administrative Leadtime <i>(in Months)</i> : 2					Production Leadtime <i>(in Months)</i> : 2		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020		
Delivery Dates	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021		
Footnotes: ⁽¹⁾ Added Remark: FY 2019 decrease accounts for the \$3.175 million adjustment for the availability of prior year execution balances. ⁽²⁾ OBS quantities include various mission equipment quantities.							

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0537 / EP-3 Series					Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	201.815	7.505	7.220	0.000	5.380	5.380	0.000	0.000	0.000	0.000	0.000	221.920
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	201.815	7.505	7.220	0.000	5.380	5.380	0.000	0.000	0.000	0.000	0.000	221.920
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	201.815	7.505	7.220	0.000	5.380	5.380	0.000	0.000	0.000	0.000	0.000	221.920
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This OSIP responds to the current, immediate demand for information operations capabilities on the EP-3E in the Overseas Contingency Operations (OCO) and has been funded via the Emergency Supplemental Appropriation for Defense. This EP-3E Information Operations OSIP will procure the necessary modifications for EP-3E aircraft to selectively conduct offensive intelligence operations. This requirement was originally identified by Commander U.S. Fifth Fleet (US Navy) N3//11715332OCT02)for Operation Enduring Freedom. The requirement was again identified by Commander Naval Forces - Iraq (021101ZNOV04) and endorsed by United States Central Command (CCJ3-P//091619ZNOV4), United States Naval Forces, Central Command(CENTCOM)(111332ZNOV04) and Commander, U.S. Fleet Forces Command(122012ZNOV04). FY2017 OCO Request for Advanced Signal Collection Equipment (ASCE). Effort procures and rapidly integrates ASCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). FY2017 funds will enhance previous OCO funded installations on EP-3E aircraft. Specific operational details can be provided in a classified forum. FY2018 OCO Request for Advanced Data Collection Equipment (ADCE). Effort procures and rapidly integrates ADCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). FY2018 funds will enhance previous OCO funded installations on EP-3E aircraft. Specific operational details can be provided in a classified forum. FY2019 OCO Request for \$5.380M for Increased Capability Special Collection Equipment (ICSCE). Effort procures and rapidly integrates ICSCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). FY2019 OCO funds will install new collection capabilities required by the COCOM on EP-3E aircraft. Specific operational details can be provided in a classified forum. NOTES: 1) 2 Val/Ver Kits are included in ASCE B-Kits 2) FY18 ASCE Installs funded with FY17 OCO 3) 2 Val/Ver Kits are included in ACME B-Kits 4) FY17 ACME Installs funded with FY16 OCO 5) 2 Val/Ver Kits are included in ADCE B-Kits 6) FY19 ADCE Installs funded with FY18 OCO												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0537 / EP-3 Series				Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: EP-3E			Modification Type: Operational Improvement / Modernization					Related RDT&E PEs: 0305206N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05													
A Kits													
Recurring													
1.1.1) Advanced Signal Collection Equipment (ASCE) - NonOrganic ⁽³⁾		- / -	12 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.600	
1.1.2) Advanced Data Collection Equipment (ADCE) - NonOrganic		- / -	- / -	12 / 0.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.780	
1.1.3) Increased Capability Special Collection Equipment (ICSCE) - NonOrganic ⁽⁴⁾		- / -	- / -	- / -	- / 0.000	12 / 0.840	12 / 0.840	- / -	- / -	- / -	- / -	12 / 0.840	
1.1.4) ARCHIVED ECPs - Organic		46 / 119.844	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 119.844	
Subtotal: Recurring		- / 119.844	- / 0.600	- / 0.780	- / 0.000	- / 0.840	- / 0.840	- / -	- / -	- / -	- / -	- / 122.064	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 10.608	- / 0.335	- / 0.950	- / 0.000	- / 1.025	- / 1.025	- / -	- / -	- / -	- / -	- / 12.918	
Subtotal: Non-Recurring		- / 10.608	- / 0.335	- / 0.950	- / 0.000	- / 1.025	- / 1.025	- / -	- / -	- / -	- / -	- / 12.918	
B Kits													
Recurring													
2.1.1) Advanced Signal Collection Equipment (ASCE) - Organic		- / -	14 / 4.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 4.900	
2.1.2) Advanced Data Collection Equipment (ADCE) - Organic		- / -	- / -	14 / 3.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.850	
2.1.3) Increased Capability Special Collection Equipment (ICSCE) - Organic		- / -	- / -	- / -	- / 0.000	14 / 1.470	14 / 1.470	- / -	- / -	- / -	- / -	14 / 1.470	
2.1.4) Archive B-Kits Recurring - Organic		14 / 44.077	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 44.077	
Subtotal: Recurring		- / 44.077	- / 4.900	- / 3.850	- / 0.000	- / 1.470	- / 1.470	- / -	- / -	- / -	- / -	- / 54.297	
Non-Recurring													
2.2.1) Install Equipment N/R - Organic		- / 3.050	- / -	- / -	- / 0.000	- / 0.565	- / 0.565	- / -	- / -	- / -	- / -	- / 3.615	
Subtotal: Non-Recurring		- / 3.050	- / -	- / -	- / 0.000	- / 0.565	- / 0.565	- / -	- / -	- / -	- / -	- / 3.615	
Subtotal: EP-3E Info Operations - OSIP 14-05		60 / 177.579	26 / 5.835	26 / 5.580	- / 0.000	26 / 3.900	26 / 3.900	- / -	- / -	- / -	- / -	138 / 192.894	
Subtotal: Procurement, All Modification Items		- / 177.579	- / 5.835	- / 5.580	- / 0.000	- / 3.900	- / 3.900	- / -	- / -	- / -	- / -	- / 192.894	
Support (All Modification Items)													
3.2) Surge ECO		- / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.000	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0537 / EP-3 Series					Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: EP-3E				Modification Type: Operational Improvement / Modernization				Related RDT&E PEs: 0305206N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
3.3) Data	- / 0.081	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.081	
3.4) Training Equipment	- / 1.886	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.886	
3.5) Support Equipment	- / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.100	
3.6) ILS	- / 1.397	- / 0.220	- / 0.300	- / 0.000	- / 0.175	- / 0.175	- / -	- / -	- / -	- / -	- / -	- / 2.092	
3.7) Other Support	- / 13.772	- / 0.250	- / 0.200	- / 0.000	- / 0.645	- / 0.645	- / -	- / -	- / -	- / -	- / -	- / 14.867	
<i>Subtotal: Support</i>	<i>- / 24.236</i>	<i>- / 0.470</i>	<i>- / 0.500</i>	<i>- / 0.000</i>	<i>- / 0.820</i>	<i>- / 0.820</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 26.026</i>	
Installation													
<i>Modification Item 1 of 1:</i> EP-3E Info Operations - OSIP 14-05	- / 0.000	- / 1.200	- / 1.140	- / 0.000	- / 0.660	- / 0.660	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.000	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / 1.200</i>	<i>- / 1.140</i>	<i>- / 0.000</i>	<i>- / 0.660</i>	<i>- / 0.660</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 3.000</i>	
Total													
Total Cost (Procurement + Support + Installation)	201.815	7.505	7.220	0.000	5.380	5.380	0.000	0.000	0.000	0.000	0.000	221.920	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0537 / EP-3 Series				Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05												
Manufacturer Information												
Manufacturer Name: TBD - ASCE							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 2					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Jan 2017											
Delivery Dates	Mar 2017											
Manufacturer Name: TBD - ADCE							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 2					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates		Jan 2018										
Delivery Dates		Mar 2018										
Manufacturer Name: TBD - ICSCE							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 2					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jan 2019									
Delivery Dates			Mar 2019									
Installation Information												
Method of Implementation: [none specified]:: Installation Name: Advanced Signal Collection Equipment (ASCE)												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	9 / 1.200	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.200
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	9 / 1.200	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.200

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Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0537 / EP-3 Series										Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05											
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05																															
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Advanced Signal Collection Equipment (ASCE)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
Out	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
Method of Implementation: [none specified]:: Installation Name: Advanced Data Collection Equipment (ADCE)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	9 / 1.140	3 / 0.000	0 / 0.000	3 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.140																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	9 / 1.140	3 / 0.000	0 / 0.000	3 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.140																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
Out	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
Method of Implementation: [none specified]:: Installation Name: Increased Capability Special Collection Equipment (ICSCE)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0537 / EP-3 Series										Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05																																							
Installation Information																																							
Method of Implementation: [none specified]:: Installation Name: Increased Capability Special Collection Equipment (ICSCE)																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																								
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
FY 2019		- / -	- / -	- / -	0 / 0.000	9 / 0.660	9 / 0.660	3 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.660																									
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
Total		- / -	- / -	- / -	0 / 0.000	9 / 0.660	9 / 0.660	3 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.660																									
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12								
Out	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12								
Method of Implementation (Organic): ARCHIVED ECPs - Not Installed																														Installation Quantity: 46									
Method of Implementation (Organic): Advanced Signal Collection Equipment (ASCE) - Not Installed																														Installation Quantity: 14									
Method of Implementation (Organic): Advanced Data Collection Equipment (ADCE) - Not Installed																														Installation Quantity: 14									
Method of Implementation (Organic): Increased Capability Special Collection Equipment (ICSCE) - Not Installed																														Installation Quantity: 14									
Method of Implementation (Organic): Archive B-Kits Recurring - Not Installed																														Installation Quantity: 14									
Footnotes: (3) FY-18 ASCE Installs are funded with FY-17 OCO																																							

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
⁽⁴⁾ FY20 ICSCE Installs are funded with FY19 OCO		

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Exhibit P-3a, Individual Modification: PB 2019 Navy

Date: February 2018

Appropriation / Budget Activity / Budget Sub Activity:
1506N / 05 / 1

P-1 Line Item Number / Title:
0537 / EP-3 Series

Modification Number / Title:
3 / Inactive OSIPS

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	379.911	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	379.911
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	379.911	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	379.911
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	379.911	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	379.911
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0537 / EP-3 Series					Modification Number / Title: 3 / Inactive OSIPS			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: EP-3E				Modification Type: Operational Improvement / Modernization				Related RDT&E PEs: 0305206N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> N/A													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>3.1) Inactive OSIPS</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0537 / EP-3 Series			Modification Number / Title: 3 / Inactive OSIPS	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0538 / P-3 Series

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,906.693	2.767	0.700	0.803	0.000	0.803	0.614	0.000	0.000	0.000	-	4,911.577
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,906.693	2.767	0.700	0.803	0.000	0.803	0.614	0.000	0.000	0.000	-	4,911.577
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,906.693	2.767	0.700	0.803	0.000	0.803	0.614	0.000	0.000	0.000	-	4,911.577
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to P-3 aircraft. The P-3 Orion is a four turbo-prop engine, long-range maritime surveillance aircraft which performs Under Sea Warfare, Surface Warfare and Intelligence, Surveillance and Reconnaissance in support of battle group and littoral operations in direct support of Sea Shield and Forcenet pillars of Seapower 21.

A key investment area is P-3 Mod Programs. Funding for these programs support a multitude of obsolescence, structural, sustainment, training/logistics and warfighting capability upgrades that are key in keeping the P-3 platform relevant through Multi-mission Maritime Aircraft (MMA) Initial Operational Capability. P-3 aircraft mods funded under the Aircraft Procurement, Navy line have heavily supported recent and current Operation Enduring Freedom, Operation Iraqi Freedom and Overseas Contingency Operations (OCO). Without key technology upgrades and aggressive obsolescence management, P-3 aircraft will be unable to meet Fleet Response Plan requirements, leaving key Seapower 21 capabilities in support of the Combatant Commanders at risk. This P-3 Sustainment Bridge provides a roadmap ensuring sufficient P-3 assets for Fleet and Combatant Commanders to fulfill operational and training/readiness requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0538 / P-3 Series			
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A									

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P-3 MISSION SYSTEMS(OSIP 006-08) (Operational Improvement)				- / 48,424	- / 2.767	- / 0.700	- / 0.803	- / 0.000	- / 0.803
P-3a	2 / Inactive OSIPs (TBD)				- / 4,858.269	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 4,906.693	- / 2.767	- / 0.700	- / 0.803	- / 0.000	- / 0.803

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P-3 MISSION SYSTEMS(OSIP 006-08) (Operational Improvement)				- / 0.614	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 53.308
P-3a	2 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 4,858.269
P-40	Total Gross/Weapon System Cost				- / 0.614	- / 0.000	- / 0.000	- / 0.000	- / -	- / 4,911.577

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The budget supports the remaining P-3 variants through 2020 in order to complete the P-8 transition, and has been optimized for 55 AIP+, 12 EP-3, and 18 BMUP configured aircraft.

The FY 2019 funding request was reduced by \$0.011 million to account for the availability of prior year execution balances.

The FY 2019 funding request was reduced by \$0.011 million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0538 / P-3 Series						Modification Number / Title: 1 / P-3 MISSION SYSTEMS(OSIP 006-08)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	48.424	2.767	0.700	0.803	0.000	0.803	0.614	0.000	0.000	0.000	0.000	53.308
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	48.424	2.767	0.700	0.803	0.000	0.803	0.614	0.000	0.000	0.000	0.000	53.308
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	48.424	2.767	0.700	0.803	0.000	0.803	0.614	0.000	0.000	0.000	0.000	53.308
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Navy's Maritime Patrol and Reconnaissance Force (primarily P-3C Orion aircraft) provides three deliverables to Navy and Joint commanders worldwide: Undersea warfare; Intelligence Surveillance, and Reconnaissance; and Maritime Surveillance Targeting. The P-3C Mission Systems Sustainment program will ensure that the P-3C aircraft continues to meet the Navy's requirement to perform Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASUW), Over-the-Horizon Targeting (OTH-T), and Command, Control, Communications, Computers, and Intelligence (C4I) until Full Operational Capability (FOC) of Multi-Mission Maritime Aircraft (MMA) is achieved. Funding supports a multitude of obsolescence sustainment, training/logistics and war fighting capability upgrades that are key in keeping the P-3 platform relevant until the projected P-8A FOC. Sustaining the sensor capabilities provided by the APS-137D (V) 5 imaging radar, the Advanced Imaging Multi-Spectral Sensor (AIMS) electro optical/infrared(EO/IR) system, ALR 95 Electronic Support Measures(ESM), Tactical Common Data Link (TCDL), small circular area of probability weapon system (Maverick, Standoff Land Attack Missile (SLAM), SLAM-Extended Range, provisions to carry and launch all Mil Std 1760 Digital weapons with Digital Stores Management System (DSMS), Block Modification Upgrade Program(BMUP) Sustainment, Fleet Response, P-3 Obsolescence Upgrades, ALE-47/AAR-47 missile warning countermeasures due to obsolescence is essential in order to maintain these vital capabilities. Additional systems and capabilities may be required in order to remain effective in the Sea Power 21 Construct. These systems include: MATT, APS-137 radar; Acoustic systems, AIMS EO/IR; Multi-Mission Advanced Tactical Terminal; Link 16; Global Communication & Control System - Maritime (GCCS-M); Integrated Tactical Picture (ITP); International Marine/Maritime Satellite; Precision Targeting Workstation (PTW); Over-the-Horizon Airborne Sensor Information System; Video Distribution Controller (VDC); Tactical Mission Computer(TMC); ALR-95 ESM; Demand Assigned Multiple Access (DAMA) Satcom; MST; TC DL; Recorders including the High Resolution Digital Recorder; ALE47/AAR47; Digital Stores Management System (DSMS), Advanced Data Storage System (ADSS); all weapon systems including missiles, torpedoes, mines, as well as acoustic system upgrades. These improvements are a vital element of the P-3 sustainment bridge for mission aircraft, including Anti-surface Warfare Improvement Program (AIP) and BMUP, significantly enhancing the strategy of a smaller, more ready, more capable P-3 force during the bridge to MMA. P-3 C Mission Systems Sustainment is a branch of the ASW Maritime Improvement program (AMIP) to provide for obsolescence, technology refresh and technology insertion to P-3C mission systems. FY18-FY20 P-3 obsolescence upgrades addresses obsolescence issues on 18 BMUP aircraft. BMUP aircraft are supporting the Littoral Surveillance Radar System (LSRS) mission through 2023. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: This modification makes maximum use of previously developed subsystems. The FY 2019 funding request was reduced by \$0.011 million to account for the availability of prior year execution balances.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0538 / P-3 Series						Modification Number / Title: 1 / P-3 MISSION SYSTEMS(OSIP 006-08)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: P-3C				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> P-3 MISSION SYSTEMS(OSIP 006-08)													
B Kits													
Recurring													
2.1.1) P-3 Obsolescence Upgrades - Organic	140 / 6.872	- / 1.285	- / 0.657	- / 0.761	- / -	- / 0.761	- / 0.585	- / -	- / -	- / -	- / -	140 / 10.160	
2.1.2) Archived Mods - Organic	43 / 7.816	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 7.816	
<i>Subtotal: Recurring</i>	- / 14.688	- / 1.285	- / 0.657	- / 0.761	- / -	- / 0.761	- / 0.585	- / -	- / -	- / -	- / 0.000	- / 17.976	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 7.004	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.204	
<i>Subtotal: Non-Recurring</i>	- / 7.004	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 7.204	
<i>Subtotal: P-3 MISSION SYSTEMS(OSIP 006-08)</i>	183 / 21.692	- / 1.485	- / 0.657	- / 0.761	- / -	- / 0.761	- / 0.585	- / -	- / -	- / -	- / -	183 / 25.180	
<i>Subtotal: Procurement, All Modification Items</i>	- / 21.692	- / 1.485	- / 0.657	- / 0.761	- / -	- / 0.761	- / 0.585	- / -	- / -	- / -	- / 0.000	- / 25.180	
Support (All Modification Items)													
3.1) ECO	- / 5.845	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.145	
3.2) Data	- / 0.514	- / 0.100	- / 0.008	- / 0.010	- / -	- / 0.010	- / 0.005	- / -	- / -	- / -	- / -	- / 0.637	
3.3) Training Equipment	- / 1.366	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.366	
3.4) Support Equipment	- / 0.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.357	
3.5) ILS	- / 0.522	- / 0.100	- / 0.008	- / 0.010	- / -	- / 0.010	- / 0.005	- / -	- / -	- / -	- / -	- / 0.645	
3.6) Other Support	- / 18.128	- / 0.782	- / 0.027	- / 0.022	- / -	- / 0.022	- / 0.019	- / -	- / -	- / -	- / -	- / 18.978	
<i>Subtotal: Support</i>	- / 26.732	- / 1.282	- / 0.043	- / 0.042	- / -	- / 0.042	- / 0.029	- / -	- / -	- / -	- / 0.000	- / 28.128	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	48.424	2.767	0.700	0.803	0.000	0.803	0.614	0.000	0.000	0.000	0.000	53.308	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0538 / P-3 Series	Modification Number / Title: 1 / P-3 MISSION SYSTEMS(OSIP 006-08)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: P-3 MISSION SYSTEMS(OSIP 006-08)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0538 / P-3 Series					Modification Number / Title: 2 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,858.269	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4,858.269
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,858.269	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4,858.269
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,858.269	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4,858.269
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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LI 0538 - P-3 Series
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0538 / P-3 Series	Modification Number / Title: 2 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0544 / E-2 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 000												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,469.039	26.726	97.563	88.780	0.000	88.780	112.667	210.933	234.327	238.948	314.977	2,793.960
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,469.039	26.726	97.563	88.780	0.000	88.780	112.667	210.933	234.327	238.948	314.977	2,793.960
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,469.039	26.726	97.563	88.780	0.000	88.780	112.667	210.933	234.327	238.948	314.977	2,793.960
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modifications to the E-2 aircraft. The E-2 is an all-weather, carrier based, airborne early warning, command and control aircraft that extends task force defense perimeters by providing early warning of approaching enemy units and by vectoring interceptors into attack position. Additionally, the HAWKEYE provides strike control, radar surveillance, search and rescue assistance, communications relay and automatic tactical data exchange. As the result of technological advancements, the Commercial-Off-The-Shelf (COTS) hardware/software of the Mission Computer (MCU) will change or become obsolete in the very near future. -Technology Insertion Operational Safety and Improvement Program (OSIP)(05-01): Supports assembly, validation and configuration management of COTS hardware and software of the MCU. -Radar Improvement program OSIP (05-11): Supports portions of its APS-145 Radar architecture dated from the 1960s and serious obsolescence issues which are expected to disrupt normal operations if left unmitigated. -Dual Transmit Satellite Communications OSIP (08-14): Provides the E-2 with an additional Satellite Communications satisfying a capability gap that was identified during Operation Enduring Freedom. -MODE 5/S OSIP (09-14): Updates the current APX-122 Identification of Friend or Foe (IFF) interrogator system with the upgraded Mode 5 software and hardware. Mode 5 secure IFF system is used to identify friendly forces in a battlefield environment by maximizing Combat Identification and Situational Awareness among military platforms. Mode 5/S will support the Joint Initial Operational Capability as defined by the Joint Requirements Oversight Council. -E-2 Avionics OSIP (11-14): Fund avionics upgrades required to remain compliant with NSA Directives and modify obsolescence and deficiencies in the E-2. -E-2 Airframe Change Directives (ACDs) OSIP (05-15): Retrofit ACDs and Engineering Change Proposals (ECPs) necessary to sustain and improve the E-2 system operations. -E-2D Automatic Identification System (AIS) OSIP (09-16): Provide enhanced maritime target Combat ID capability in support of Battlefield Management, Command and Control (BMC2) and Surface Warfare (SUW) mission. -LINK-16 OSIP (01-17): Link-16 crypto modernization upgrades and frequency remapping capability as mandated by NSA, DoT and DoD respectively and field the Link 16 capability into the E-2C with the Joint Tactical Information Distribution System (JTIDS) terminal which will improve the performance against current existing data links. -E-2 Embedded National Tactical Receiver (ENTR) OSIP (08-17): will provide the E-2 with the capability to receive intelligence data from national assets for real-time, emergent threat or Combat ID data, compressing tactical engagement timeline for Naval Integrated Fire Control - Counter Air (NIFC-CA) kill chains. -Structural Enhancements OSIP (12-17): Enable the aircrafts full service life and removes vehicle performance envelope restrictions. This will mitigate the potential for aircraft grounding. -E-2D Network File Servers (NFS) OSIP (13-17): Used to load software programs and record data directly associated with the planned and tactical activity during the performance of its missions. -E-2 Multifunctional Information Distribution System/Joint Tactical Radio System and Tactical Targeting Network Targeting (MIDS/JTRS) OSIP (01-18): Wave form will integrate the current E-2D Link-16 data link architecture with a time-sensitive targeting technology.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0544 / E-2 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
-E-2D Aerial Refueling (AR) OSIP (02-18): Allow the E-2 to receive fuel from various organic and non-organic tanker aircraft. It will provide Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance). -E-2D Secret Internet Protocol Router Chat (SIPR CHAT) OSIP (03-18): Support the integration of current collaboration tools including tactical "chat" (text) communications, real-time tasking, and Air Tasking Order distribution. Recent real world operations have demonstrated a migration of Command and Control communications from voice to Internet protocol based networks. -Crypto Modernization / Frequency Remapping OSIP (07-18): Addresses MIDS JTRS/Link-16 crypto mod and frequency remap to maintain E-2D Link-16 interoperability including CMN-4. -Global Positioning System (GPS) Modification OSIP (06-19): Provides Naval platforms improved access to GPS signals in challenged and jamming environments. Modernizes GPS receivers to utilize the new M-Code GPS Signal in Space, incorporate enhanced cryptology, deliver greater position and time accuracy, provide improved protection against signal spoofing as compared to legacy Selective Anti-jam Anti-Spoof Module (SAASM) receivers and replace an obsolescence issue. Additionally, GPS Modernization delivers increased GPS anti-jam protection and enables blue force GPS electronic attack. Enables compliance with Public Law 111-383 and Office of the Secretary of Defense Oversight Council guidance. -Navigational Warfare (NAVWAR) OSIP (011-19): NAVWAR capability allows the E-2D AHE to operate in areas where signal disruption would prohibit unprotected GPS reception. The E-2D AHE will be able to provide continuous operations in a degraded GPS environment for mission areas that depend on GPS for precise position, navigation, and timing. -The Electronic Support Measures OSIP (02-20): Digital upgrade greatly enhances CID, battle space awareness, and effectiveness of blue forces. Combat Identification (#3) requirements and network sensor systems (#2) are specifically called out on COMACCLOGWING's FY14 E-2D Naval Aviation Readiness Group (NARG) Message. -The Advanced Radar Processor OSIP (03-20) is an essential upgrade to the E-2D APY-9 Radar system that improves the radar processing capability six fold, reduces production costs, addresses obsolescence, reduces future support costs and enables future growth by reducing the number of Subsystem Replaceable Assembly's in the processors. ARP is required to support the transition of current Science & Technology investments in Naval Integrated Fire Control-Counter Air (NIFC-CA) (Increment 3), Counter Electronic Attack and Sensor Netting. Test Asset Viability (01-22) upgrades the two E-2D test assets and E-2 Systems Test and Evaluation Lab (ESTEL) to more accurately represent a production aircraft. There are 43 E-2C's (delivered) and 51 E-2D's (delivered or on contract) for a total of 94 E-2 aircraft. The E-2 has a service life of 10,000 flight hours.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0544 / E-2 Series					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 000										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 005-01 Technology Insertion (Mission Performance Enhancement)				- / 128.160	- / 5.678	- / 10.142	- / 6.075	- / 0.000	- / 6.075
P-3a	2 / 008-14 Dual Transmit SATCOM (Mission Performance Enhancements)				- / 7.860	- / 6.942	- / 3.986	- / 0.642	- / 0.000	- / 0.642
P-3a	3 / 009-14 MODE 5/S (Mission Performance Enhancements)				- / 10.821	- / 1.038	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	4 / 011-14 E-2 Avionics (Mission Performance Enhancements)				- / 8.710	- / 0.432	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	5 / 005-15 E-2 Aircraft ACD's (Mission Performance Enhancements)				- / 3.430	- / 3.393	- / 4.154	- / 3.806	- / 0.000	- / 3.806
P-3a	6 / 009-16 E-2D AIS (Mission Performance Enhancements)				- / 1.928	- / 1.863	- / 4.748	- / 1.545	- / 0.000	- / 1.545
P-3a	7 / 001-17 LINK 16 (JTIDS for E-2C) (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 6.147	- / 0.000	- / 0.000	- / 0.000
P-3a	8 / 008-17 E-2 ENTR (Missions Performance Enhancements)				- / 0.000	- / 0.070	- / 5.505	- / 1.780	- / 0.000	- / 1.780
P-3a	9 / 012-17 Structural Enhancements (Mission Performance Enhancements)				- / 0.000	- / 4.509	- / 11.385	- / 10.924	- / 0.000	- / 10.924
P-3a	10 / 013-17 Network File Server (Mission Performance Enhancements)				- / 0.000	- / 2.801	- / 1.144	- / 0.000	- / 0.000	- / 0.000
P-3a	11 / 001-18 E-2 MIDS/JTRS TTNT (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	12 / 002-18 E-2D Aerial Refueling (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 31.535	- / 41.884	- / 0.000	- / 41.884
P-3a	13 / 003-18 E-2D SIPR CHAT (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 12.907	- / 5.286	- / 0.000	- / 5.286
P-3a	14 / 007-18 Crypto Modernization (Mission Performance Enhancement)				- / 0.000	- / 0.000	- / 5.910	- / 2.641	- / 0.000	- / 2.641
P-3a	15 / 006-19 GPS Modernization (Mission Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	16 / 011-19 Navigational Warfare (NAVWAR) (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 2.512	- / 0.000	- / 2.512
P-3a	17 / 002-20 Electronic Support Measures (Mission Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	18 / 03-20 Advanced Radar Processor (Mission Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 11.685	- / 0.000	- / 11.685
P-3a	19 / 01-22 Test Asset Viability (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	20 / Inactive OSIPs (TBD)				- / 1,308.130	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,469.039	- / 26.726	- / 97.563	- / 88.780	- / 0.000	- / 88.780
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 005-01 Technology Insertion (Mission Performance Enhancement)				- / 6.133	- / 6.135	- / 6.257	- / 6.383	- / 6.308	- / 181.271
P-3a	2 / 008-14 Dual Transmit SATCOM (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 19.430

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy			Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft			P-1 Line Item Number / Title: 0544 / E-2 Series		
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A		Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: 000					

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	3 / 009-14 MODE 5/S (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 11.859
P-3a	4 / 011-14 E-2 Avionics (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 9.142
P-3a	5 / 005-15 E-2 Aircraft ACD's (Mission Performance Enhancements)				- / 3.882	- / 5.610	- / 3.727	- / 4.310	- / 0.000	- / 32.312
P-3a	6 / 009-16 E-2D AIS (Mission Performance Enhancements)				- / 1.017	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 11.101
P-3a	7 / 001-17 LINK 16 (JTIDS for E-2C) (Mission Performance Enhancements)				- / 4.146	- / 4.034	- / 0.269	- / 0.000	- / 0.000	- / 14.596
P-3a	8 / 008-17 E-2 ENTR (Missions Performance Enhancements)				- / 1.501	- / 1.445	- / 1.226	- / 0.143	- / 0.000	- / 11.670
P-3a	9 / 012-17 Structural Enhancements (Mission Performance Enhancements)				- / 6.975	- / 5.621	- / 2.637	- / 2.636	- / 77.942	- / 122.629
P-3a	10 / 013-17 Network File Server (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.945
P-3a	11 / 001-18 E-2 MIDS/JTRS TTNT (Mission Performance Enhancements)				- / 8.359	- / 28.359	- / 32.937	- / 30.780	- / 8.237	- / 108.672
P-3a	12 / 002-18 E-2D Aerial Refueling (Mission Performance Enhancements)				- / 42.877	- / 39.742	- / 40.516	- / 43.060	- / 166.200	- / 405.814
P-3a	13 / 003-18 E-2D SIPR CHAT (Mission Performance Enhancements)				- / 8.960	- / 6.929	- / 5.790	- / 2.919	- / 0.000	- / 42.791
P-3a	14 / 007-18 Crypto Modernization (Mission Performance Enhancement)				- / 6.381	- / 6.522	- / 2.365	- / 0.000	- / 0.000	- / 23.819
P-3a	15 / 006-19 GPS Modernization (Mission Performance Enhancement)				- / 2.963	- / 10.459	- / 10.930	- / 11.363	- / 3.234	- / 38.949
P-3a	16 / 011-19 Navigational Warfare (NAVWAR) (Mission Performance Enhancements)				- / 5.633	- / 5.315	- / 5.372	- / 5.288	- / 3.015	- / 27.135
P-3a	17 / 002-20 Electronic Support Measures (Mission Performance Enhancement)				- / 0.000	- / 35.521	- / 36.706	- / 37.446	- / 22.240	- / 131.913
P-3a	18 / 03-20 Advanced Radar Processor (Mission Performance Enhancement)				- / 13.840	- / 50.727	- / 56.059	- / 51.345	- / 26.000	- / 209.656
P-3a	19 / 01-22 Test Asset Viability (Mission Performance Enhancements)				- / 0.000	- / 4.514	- / 29.536	- / 43.275	- / 1.801	- / 79.126
P-3a	20 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1,308.130
P-40	Total Gross/Weapon System Cost				- / 112.667	- / 210.933	- / 234.327	- / 238.948	- / 314.977	- / 2,793.960

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 1 / 005-01 Technology Insertion

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	128.160	5.678	10.142	6.075	0.000	6.075	6.133	6.135	6.257	6.383	6.308	181.271
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	128.160	5.678	10.142	6.075	0.000	6.075	6.133	6.135	6.257	6.383	6.308	181.271
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	128.160	5.678	10.142	6.075	0.000	6.075	6.133	6.135	6.257	6.383	6.308	181.271
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Technology Insertion OSIP was established to address obsolescence of Commercial Off-The Shelf (COTS) software and hardware of E-2 computing resources. Commercial technology obsolescence drives hardware and software changes in Computing Resources for the E-2 Aircraft. Funding is required to support capability for assembly, validation, and configuration management of COTS hardware/software provided to fleet squadrons and updated on a 4-year technology cycle. Specific examples include video boards, memory boards, Computer Processing Units cards, compilers, middleware, backplanes, and operating systems that will change or become obsolete.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The E-2 Program Support Activity will insure software is upgraded, revised, and integrated so it functions with the versions of the COTS hardware and software delivered. The integration effort must start no less than one year prior to delivery.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 1 / 005-01 Technology Insertion			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 005-01 Technology Insertion													
B Kits													
Recurring													
1.1.1) E2C COM-Express Mod Replacement - Organic	- / 0.832	- / -	120 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 1.832	
1.1.2) E2C B-Kits 1 - Organic	- / -	- / -	- / -	27 / 1.500	- / -	27 / 1.500	- / -	- / -	- / -	- / -	- / -	27 / 1.500	
1.1.3) E2C B-Kits 2 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 1.403	- / -	- / -	- / -	- / -	27 / 1.403	
1.1.4) E2D B-Kits 1 - Organic	- / -	- / -	- / -	40 / 1.897	- / -	40 / 1.897	- / -	- / -	- / -	- / -	- / -	40 / 1.897	
1.1.5) E2D B-Kits 2 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	45 / 2.000	- / -	- / -	- / -	- / -	45 / 2.000	
1.1.6) E2D B-Kits 3 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 3.353	- / -	- / -	- / -	50 / 3.353	
1.1.7) E2D B-Kits 4 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 3.457	- / -	- / -	55 / 3.457	
1.1.8) E2D B-Kits 5 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 3.526	55 / 3.360	114 / 6.886	
Subtotal: Recurring	- / 0.832	- / -	- / 1.000	- / 3.397	- / -	- / 3.397	- / 3.403	- / 3.353	- / 3.457	- / 3.526	- / 3.360	- / 22.328	
Subtotal: 005-01 Technology Insertion	- / 0.832	- / -	120 / 1.000	67 / 3.397	- / -	67 / 3.397	72 / 3.403	50 / 3.353	55 / 3.457	59 / 3.526	55 / 3.360	478 / 22.328	
Subtotal: Procurement, All Modification Items	- / 0.832	- / -	- / 1.000	- / 3.397	- / -	- / 3.397	- / 3.403	- / 3.353	- / 3.457	- / 3.526	- / 3.360	- / 22.328	
Support (All Modification Items)													
2.1) Data	- / 0.877	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.026	- / 0.026	- / 1.079	
2.2) ILS	- / 8.403	- / 0.669	- / 0.701	- / 0.672	- / -	- / 0.672	- / 0.685	- / 0.697	- / 0.711	- / 0.726	- / 0.738	- / 14.002	
2.3) Software Upgrades	- / 11.137	- / 3.279	- / 6.677	- / 0.205	- / -	- / 0.205	- / 0.210	- / 0.214	- / 0.186	- / 0.187	- / 0.227	- / 22.322	
2.4) Training Equipment	- / 4.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.500	
2.5) Other Support	- / 102.411	- / 1.705	- / 1.739	- / 1.776	- / -	- / 1.776	- / 1.810	- / 1.846	- / 1.878	- / 1.918	- / 1.957	- / 117.040	
Subtotal: Support	- / 127.328	- / 5.678	- / 9.142	- / 2.678	- / -	- / 2.678	- / 2.730	- / 2.782	- / 2.800	- / 2.857	- / 2.948	- / 158.943	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	128.160	5.678	10.142	6.075	0.000	6.075	6.133	6.135	6.257	6.383	6.308	181.271	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 1 / 005-01 Technology Insertion
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 005-01 Technology Insertion		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 2 / 008-14 Dual Transmit SATCOM			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	7.860	6.942	3.986	0.642	0.000	0.642	0.000	0.000	0.000	0.000	0.000	19.430
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	7.860	6.942	3.986	0.642	0.000	0.642	0.000	0.000	0.000	0.000	0.000	19.430
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	7.860	6.942	3.986	0.642	0.000	0.642	0.000	0.000	0.000	0.000	0.000	19.430
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Dual Transmit Satellite Communication (SATCOM) Operational Safety and Improvement Program will integrate and field the capability into the E-2 by modifying aircraft cabling/components and the antenna. This integration will allow the aircrew to simultaneously receive/transmit on two SATCOM channels, allowing use of two discrete command nets for voice and data.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Dual Transmit SATCOM system design and development began in FY09. Flight test completed in FY15. Procurement of kits went on contract in FY17. The procurement of 5 Dual SATCOM Kits in FY16 is required to support VX-1 Operational testing for DSSC 2 release. This capability is critical to prevent severe communication gaps with the carrier strike group during missions in theatre.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 2 / 008-14 Dual Transmit SATCOM			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 008-14 Dual Transmit SATCOM													
B Kits													
Recurring													
1.1.1) E-2D Dual Transmit SATCOM - NonOrganic	5 / 5.863	8 / 6.013	3 / 2.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 14.262	
<i>Subtotal: Recurring</i>	- / 5.863	- / 6.013	- / 2.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 14.262	
<i>Subtotal: 008-14 Dual Transmit SATCOM</i>	5 / 5.863	8 / 6.013	3 / 2.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 14.262	
<i>Subtotal: Procurement, All Modification Items</i>	- / 5.863	- / 6.013	- / 2.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 14.262	
Support (All Modification Items)													
2.1) Data	- / 0.352	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.352	
2.2) ILS ⁽¹⁾	- / 0.192	- / -	- / 0.332	- / 0.069	- / -	- / 0.069	- / -	- / -	- / -	- / -	- / -	- / 0.593	
2.3) Training Equipment	- / -	- / -	- / 0.155	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.155	
2.4) Support Equipment	- / 0.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.545	
2.5) Other Support ⁽²⁾	- / 0.908	- / 0.480	- / 0.489	- / 0.334	- / -	- / 0.334	- / -	- / -	- / -	- / -	- / -	- / 2.211	
<i>Subtotal: Support</i>	- / 1.997	- / 0.480	- / 0.976	- / 0.403	- / -	- / 0.403	- / -	- / -	- / -	- / -	- / 0.000	- / 3.856	
Installation													
<i>Modification Item 1 of 1:</i> 008-14 Dual Transmit SATCOM	- / 0.000	- / 0.449	- / 0.624	- / 0.239	- / 0.000	- / 0.239	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1.312	
<i>Subtotal: Installation</i>	- / 0.000	- / 0.449	- / 0.624	- / 0.239	- / -	- / 0.239	- / -	- / -	- / -	- / -	- / 0.000	- / 1.312	
Total													
Total Cost (Procurement + Support + Installation)	7.860	6.942	3.986	0.642	0.000	0.642	0.000	0.000	0.000	0.000	0.000	19.430	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 2 / 008-14 Dual Transmit SATCOM																
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 008-14 Dual Transmit SATCOM																															
Manufacturer Information																															
Manufacturer Name: Dual Transmit SATCOM										Manufacturer Location: Field Mod Team																					
Administrative Leadtime <i>(in Months)</i> : 8										Production Leadtime <i>(in Months)</i> : 12																					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023																								
Contract Dates	May 2017	May 2018																													
Delivery Dates	May 2018	May 2019																													
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: E-2D Dual Transmit SATCOM																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years	- / -	5 / 0.449	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.449																			
FY 2017	- / -	- / -	8 / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 0.624																			
FY 2018	- / -	- / -	- / -	3 / 0.239	0 / 0.000	3 / 0.239	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.239																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	- / -	5 / 0.449	8 / 0.624	3 / 0.239	0 / 0.000	3 / 0.239	- / -	- / -	- / -	- / -	0 / 0.000	16 / 1.312																			
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	3	2	-	-	4	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	-	-	-	3	2	-	-	4	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Footnotes: (1) FY19 ILS costs are required for installs. (2) FY19 support costs are required for installs.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 3 / 009-14 MODE 5/S

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	10.821	1.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.859
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	10.821	1.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.859
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	10.821	1.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.859
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding will field the Mode 5 interrogation capability into the E-2D. This effort will update the current APX-122 Identification of Friend or Foe (IFF) interrogator system with the Mode 5 software and hardware upgrade. The Mode 5 secure IFF system is used to identify friendly forces in a battlefield environment by maximizing Combat Identification and Situational Awareness among military platforms. The E-2D Mode 5 IFF system is being developed with modern modulation, coding, and cryptographic techniques that will provide positive, secure, line-of-sight identification of friendly military aircraft platforms.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Mode 5 system design and development completed in 4th QTR FY14. Flight test completed 2nd QTR FY16.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 3 / 009-14 MODE 5/S			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> 009-14 MODE 5/S													
B Kits													
Recurring													
2.1.1) MODE 5/S - NonOrganic	16 / 4.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.717	
<i>Subtotal: Recurring</i>	- / 4.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.717	
<i>Subtotal: 009-14 MODE 5/S</i>	16 / 4.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.717	
<i>Subtotal: Procurement, All Modification Items</i>	- / 4.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.717	
Support (All Modification Items)													
3.1) Data	- / 0.097	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.097	
3.2) ILS	- / 0.297	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.297	
3.3) Training Equipment	3 / 2.495	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.495	
3.4) Support Equipment	15 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.150	
3.5) Other Support	- / 2.692	- / 0.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.568	
<i>Subtotal: Support</i>	- / 5.731	- / 0.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.607	
Installation													
<i>Modification Item 1 of 1:</i> 009-14 MODE 5/S	- / 0.373	- / 0.162	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.535	
<i>Subtotal: Installation</i>	- / 0.373	- / 0.162	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.535	
Total													
Total Cost (Procurement + Support + Installation)	10.821	1.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.859	

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Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 3 / 009-14 MODE 5/S											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 009-14 MODE 5/S																															
Manufacturer Information																															
Manufacturer Name: E-2D MODE 5														Manufacturer Location: Field Mod Team																	
Administrative Leadtime <i>(in Months)</i> : 6														Production Leadtime <i>(in Months)</i> : 12																	
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: FIELD MOD TEAM:: Installation Name: MODE 5/S																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		10 / 0.373		6 / 0.162		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		16 / 0.535							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		10 / 0.373		6 / 0.162		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		16 / 0.535							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	10	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	10	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 4 / 011-14 E-2 Avionics			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8.710	0.432	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.142
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8.710	0.432	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.142
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8.710	0.432	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.142
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding will integrate and field the avionics modernization improvements, modify obsolescence and deficiencies in the E-2 aircraft. Without this modernization the E-2 loses the ability to do High Frequency secure voice, LINK-16 and Satellite Communications Intel Data which are required to execute the E-2 mission. Funds will be used to incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve E-2 avionics system operations.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

ARC-210 software development completed in FY13. Flight test completed in FY14. Procurement of kits began in FY14.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 4 / 011-14 E-2 Avionics			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 011-14 E-2 Avionics													
A Kits													
Recurring													
1.1.1) ARC-210 - NonOrganic	9 / 0.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.031	
<i>Subtotal: Recurring</i>	- / 0.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.031	
B Kits													
Recurring													
2.1.1) ARC-210 - Organic	9 / 4.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 4.616	
<i>Subtotal: Recurring</i>	- / 4.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.616	
<i>Subtotal: 011-14 E-2 Avionics</i>	18 / 4.647	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 4.647	
<i>Subtotal: Procurement, All Modification Items</i>	- / 4.647	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.647	
Support (All Modification Items)													
3.1) Data	- / 0.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.161	
3.2) ILS	- / 0.996	- / 0.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.048	
3.3) Training Equipment	1 / 1.928	- / 0.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.998	
3.5) Other Support	- / 0.695	- / 0.227	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.922	
<i>Subtotal: Support</i>	- / 3.780	- / 0.349	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.129	
Installation													
<i>Modification Item 1 of 1:</i> 011-14 E-2 Avionics	- / 0.283	- / 0.083	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.366	
<i>Subtotal: Installation</i>	- / 0.283	- / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.366	
Total													
Total Cost (Procurement + Support + Installation)	8.710	0.432	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.142	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 4 / 011-14 E-2 Avionics											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 011-14 E-2 Avionics																															
Manufacturer Information																															
Manufacturer Name: ARC-210															Manufacturer Location: Not Specified..																
Administrative Leadtime <i>(in Months)</i> : 2															Production Leadtime <i>(in Months)</i> : 7																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: ARC-210																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		7 / 0.283		2 / 0.083		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		9 / 0.366							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		7 / 0.283		2 / 0.083		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		9 / 0.366							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Out	7	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Method of Implementation (Organic): ARC-210 - Not Installed																															
																									Installation Quantity: 9						

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3.430	3.393	4.154	3.806	0.000	3.806	3.882	5.610	3.727	4.310	0.000	32.312
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3.430	3.393	4.154	3.806	0.000	3.806	3.882	5.610	3.727	4.310	0.000	32.312
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3.430	3.393	4.154	3.806	0.000	3.806	3.882	5.610	3.727	4.310	0.000	32.312
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Retrofit Airframe Change Directives (ACDs) are required for the E-2 aircraft to support the incorporation of established capability, reliability, maintainability, obsolescence, safety and supportability improvements. Funds will be used to incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve E-2 system operations. Planned kit procurements are made up of multiple ACDs needed for the Fleet in each fiscal year.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

E-2 Aircraft ACD's development and designs completed in FY12. Approved ACD's production cut-in began in FY13. Procurement of kits began in FY15.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2			Modification Type: Mission Performance Enhancements					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's													
A Kits													
Recurring													
1.1.1) Archived Cost Elements - Organic - / 3.142 - / - - / - - / - - / - - / - - - / - - / - - - / - - / 3.142													
1.1.2) E-2 Common Sensor Unit - NonOrganic - / - 30 / 1.016 - / - - / - - / - - - / - - - / - - - / - - 30 / 1.016													
1.1.3) E-2 Starter Cut-out Switch - NonOrganic - / - 30 / 0.150 - / - - / - - / - - - / - - - / - - - / - - 30 / 0.150													
1.1.4) E-2 Engine Bleed Repair Kit - Organic - / - 40 / 0.766 - / - - / - - / - - - / - - - / - - - / - - 40 / 0.766													
1.1.5) E-2 2B ACD Kit - NonOrganic - / - - / - 23 / 3.450 - / - - / - - / - - - / - - - / - - 23 / 3.450													
1.1.6) E-2 3A ACD kit - NonOrganic (3) - / - - / - - / - 37 / 2.549 - / - 37 / 2.549 - / - - / - - / - - - / - - 37 / 2.549													
1.1.7) E-2 4A ACD kit - NonOrganic (4) - / - - / - - / - - / - - - / - - 41 / 2.050 - / - - / - - - / - - 41 / 2.050													
1.1.8) E-2 4B ACD kit - NonOrganic - / - - / - - / - - / - - - / - - - / - - 53 / 2.120 - / - - / - - - / - - 53 / 2.120													
1.1.9) E-2 5A ACD kit - NonOrganic - / - - / - - - / - - - / - - - / - - 57 / 2.280 - / - - / - - - / - - 57 / 2.280													
1.1.10) E-2 5B ACD Kit - NonOrganic - / - - / - - - / - - - / - - - / - - 57 / 2.835 - / - - / - - - / - - 57 / 2.835													
Subtotal: Recurring - / 3.142 - / 1.932 - / 3.450 - / 2.549 - / - - / 2.549 - / 2.050 - / 2.120 - / 2.280 - / 2.835 - / 0.000 - / 20.358													
Non-Recurring													
1.2.1) Installation Kits N/R - Organic (5) - / - - / 0.150 - / 0.300 - / 0.121 - / - - / 0.121 - / 0.200 - / 0.275 - / 0.350 - / 0.357 - / - - / 1.753													
Subtotal: Non-Recurring - / 0.000 - / 0.150 - / 0.300 - / 0.121 - / - - / 0.121 - / 0.200 - / 0.275 - / 0.350 - / 0.357 - / 0.000 - / 1.753													
Subtotal: 005-15 E-2 Aircraft ACD's - / 3.142 100 / 2.082 23 / 3.750 37 / 2.670 - / - 37 / 2.670 41 / 2.250 53 / 2.395 57 / 2.630 57 / 3.192 - / - 368 / 22.111													
Subtotal: Procurement, All Modification Items - / 3.142 - / 2.082 - / 3.750 - / 2.670 - / - - / 2.670 - / 2.250 - / 2.395 - / 2.630 - / 3.192 - / 0.000 - / 22.111													
Support (All Modification Items)													
3.1) Data - / 0.020 - / 0.229 - / 0.033 - / 0.036 - / - - / 0.036 - / 0.037 - / 0.038 - / 0.039 - / 0.040 - / - - / 0.472													
3.2) ILS (6) - / 0.115 - / 0.026 - / 0.068 - / 0.070 - / - - / 0.070 - / 0.264 - / 0.305 - / 0.319 - / 0.325 - / - - / 1.492													
3.5) Other Support - / 0.153 - / 0.153 - / 0.153 - / 0.156 - / - - / 0.156 - / 0.221 - / 0.234 - / 0.239 - / 0.243 - / - - / 1.552													
Subtotal: Support - / 0.288 - / 0.408 - / 0.254 - / 0.262 - / - - / 0.262 - / 0.522 - / 0.577 - / 0.597 - / 0.608 - / 0.000 - / 3.516													
Installation													
Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's - / 0.000 - / 0.903 - / 0.150 - / 0.874 - / 0.000 - / 0.874 - / 1.110 - / 2.638 - / 0.500 - / 0.510 - / 0.000 - / 6.685													
Subtotal: Installation - / 0.000 - / 0.903 - / 0.150 - / 0.874 - / - - / 0.874 - / 1.110 - / 2.638 - / 0.500 - / 0.510 - / 0.000 - / 6.685													
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
	Total Cost (Procurement + Support + Installation)	3.430	3.393	4.154	3.806	0.000	3.806	3.882	5.610	3.727	4.310	0.000	32.312

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series		Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Nov 2017					
Delivery Dates		Feb 2018					
Manufacturer Name: E-2 Starter Cut-out Switch				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016						
Delivery Dates	Nov 2017						
Manufacturer Name: E-2D Aircraft 1B ACD				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: E-2 Common Sensor Unit				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016						
Delivery Dates	Feb 2017						
Manufacturer Name: E-2 Aircraft 5A ACD				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates						Nov 2021	
Delivery Dates						Apr 2022	
Manufacturer Name: E-2 5B ACD Kit				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							Mar 2023

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series			Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's					
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's												
Manufacturer Information												
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Delivery Dates							Sep 2023					
Manufacturer Name: E-2 Aircraft 4B ACD				Manufacturer Location: Field Mod Team								
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 5								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates					Nov 2020							
Delivery Dates					Apr 2021							
Manufacturer Name: E-2 Aircraft 3A ACD				Manufacturer Location: Field Mod Team								
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Nov 2018									
Delivery Dates			Nov 2019									
Manufacturer Name: E-2D Aircraft 4A ACD				Manufacturer Location: Field Mod Team								
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates				Nov 2019								
Delivery Dates				Nov 2020								
Manufacturer Name: E-2D Aircraft 1C ACD				Manufacturer Location: Field Mod Team								
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 6								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Field Mod Team:: Installation Name: E-2 Common Sensor Unit												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	30 / 0.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.903

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: E-2 Common Sensor Unit																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	30 / 0.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.903																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Out	-	-	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Method of Implementation: Field Mod Team:: Installation Name: E-2 Starter Cut-out Switch																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	30 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.150																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	30 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.150																		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0544 / E-2 Series											Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: E-2 Starter Cut-out Switch																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	
Out	-	-	-	-	-	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	
Method of Implementation: Field Mod Team:: Installation Name: E-2 2B ACD Kit																															
Installation Cost						Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total														
						Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)														
Prior Years						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2017						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2018						- / -	- / -	- / -	23 / 0.874	0 / 0.000	23 / 0.874	- / -	- / -	- / -	- / -	0 / 0.000	23 / 0.874														
FY 2019						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2020						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2021						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2022						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2023						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
To Complete						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
Total						- / -	- / -	- / -	23 / 0.874	0 / 0.000	23 / 0.874	- / -	- / -	- / -	- / -	0 / 0.000	23 / 0.874														
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	10	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	
Out	-	-	-	-	-	-	-	-	-	-	10	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	
Method of Implementation: Field Mod Team:: Installation Name: E-2 3A ACD kit																															
Installation Cost						Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total														
						Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)														
Prior Years						- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy			Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0544 / E-2 Series			Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:		

Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2 3A ACD kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	37 / 1.110	- / -	- / -	- / -	0 / 0.000	37 / 1.110
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	37 / 1.110	- / -	- / -	- / -	0 / 0.000	37 / 1.110

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	7	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	37
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	7	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	37

Method of Implementation: Field Mod Team:: Installation Name: E-2 4A ACD kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 1.200	- / -	- / -	0 / 0.000	41 / 1.200
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 1.200	- / -	- / -	0 / 0.000	41 / 1.200

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0544 / E-2 Series												Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: E-2 4A ACD kit																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	11	-	-	-	-	-	-	-	-	-	41
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	11	-	-	-	-	-	-	-	-	-	41
Method of Implementation: Field Mod Team:: Installation Name: E-2 4B ACD kit																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 1.438	- / -	- / -	0 / 0.000	53 / 1.438																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 1.438	- / -	- / -	0 / 0.000	53 / 1.438																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	27	-	-	-	-	-	-	-	-	-	-	53
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	27	-	-	-	-	-	-	-	-	-	-	53
Method of Implementation: Field Mod Team:: Installation Name: E-2 5A ACD kit																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy			Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0544 / E-2 Series			Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:		

Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2 5A ACD kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 0.500	- / -	0 / 0.000	57 / 0.500
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 0.500	- / -	0 / 0.000	57 / 0.500

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	29	-	-	-	-	-	57	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	29	-	-	-	-	-	57	

Method of Implementation: Field Mod Team:: Installation Name: E-2 5B ACD Kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 0.510	0 / 0.000	57 / 0.510
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 0.510	0 / 0.000	57 / 0.510

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 5 / 005-15 E-2 Aircraft ACD's											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 005-15 E-2 Aircraft ACD's																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: E-2 5B ACD Kit																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	19	19	-	57
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	19	19	-	57
Footnotes: ⁽³⁾ Kits are made up of multiple ACDs needed for the Fleet in each fiscal year. ⁽⁴⁾ Kits are made up of multiple ACDs needed for the Fleet in each fiscal year. ⁽⁵⁾ Installation Kits N/R: Engineering Change Proposal Development for multiple kits in each fiscal year. ⁽⁶⁾ ILS fluctuates depending on the amount of support needed by the Fleet in each fiscal year.																															
Method of Implementation (Organic): E-2 Engine Bleed Repair Kit																						Installation Quantity: 40									

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 6 / 009-16 E-2D AIS

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1.928	1.863	4.748	1.545	0.000	1.545	1.017	0.000	0.000	0.000	0.000	11.101
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1.928	1.863	4.748	1.545	0.000	1.545	1.017	0.000	0.000	0.000	0.000	11.101
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1.928	1.863	4.748	1.545	0.000	1.545	1.017	0.000	0.000	0.000	0.000	11.101
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Automatic Identification System (AIS) is a tracking system which provides identification, course and speed of maritime surface vessels. E-2D AIS is a critical component in developing and maintaining the common tactical picture for naval and joint forces. AIS will provide enhanced maritime target Combat ID capability in support of Battlefield Management, Command and Control (BMC2) and Surface Warfare (SUW) mission capability. E-2D AIS supports Combat Identification (CID) gap identified at Fleet Forces Command (FFC) war gaming workshop and is an E-2D Capability Development Document (CDD) requirement (JROC approved March 3, 2009). AIS is already incorporated in the E-2C.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

E-2D AIS system development and design completed in FY13. Flight test completed in FY15. Procurement of kits began in FY17.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 6 / 009-16 E-2D AIS			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 009-16 E-2D AIS													
A Kits													
Recurring													
1.1.1) E-2D AIS A-Kit - NonOrganic	10 / 0.706	10 / 0.707	10 / 0.730	4 / 0.298	- / -	4 / 0.298	- / -	- / -	- / -	- / -	- / -	34 / 2.441	
Subtotal: Recurring	- / 0.706	- / 0.707	- / 0.730	- / 0.298	- / -	- / 0.298	- / -	- / -	- / -	- / -	- / 0.000	- / 2.441	
B Kits													
Recurring													
2.1.1) E-2D B-Kit - Organic ⁽⁷⁾	- / 0.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.464	
Subtotal: Recurring	- / 0.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.464	
Subtotal: 009-16 E-2D AIS	10 / 1.170	10 / 0.707	10 / 0.730	4 / 0.298	- / -	4 / 0.298	- / -	- / -	- / -	- / -	- / -	34 / 2.905	
Subtotal: Procurement, All Modification Items	- / 1.170	- / 0.707	- / 0.730	- / 0.298	- / -	- / 0.298	- / -	- / -	- / -	- / -	- / 0.000	- / 2.905	
Support (All Modification Items)													
3.1) Data	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.022	
3.2) ILS	- / 0.043	- / -	- / 0.047	- / 0.036	- / -	- / 0.036	- / 0.036	- / -	- / -	- / -	- / -	- / 0.162	
3.3) Training Equipment	- / -	- / -	- / 2.629	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.629	
3.4) Support Equipment	- / 0.393	- / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.396	
3.5) Other Support	- / 0.300	- / 0.281	- / 0.510	- / 0.520	- / -	- / 0.520	- / 0.554	- / -	- / -	- / -	- / -	- / 2.165	
Subtotal: Support	- / 0.758	- / 0.284	- / 3.186	- / 0.556	- / -	- / 0.556	- / 0.590	- / -	- / -	- / -	- / 0.000	- / 5.374	
Installation													
Modification Item 1 of 1: 009-16 E-2D AIS	- / 0.000	- / 0.872	- / 0.832	- / 0.691	- / 0.000	- / 0.691	- / 0.427	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2.822	
Subtotal: Installation	- / 0.000	- / 0.872	- / 0.832	- / 0.691	- / -	- / 0.691	- / 0.427	- / -	- / -	- / -	- / 0.000	- / 2.822	
Total													
Total Cost (Procurement + Support + Installation)	1.928	1.863	4.748	1.545	0.000	1.545	1.017	0.000	0.000	0.000	0.000	11.101	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 6 / 009-16 E-2D AIS																
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 009-16 E-2D AIS																															
Manufacturer Information																															
Manufacturer Name: AIS										Manufacturer Location: FIELD MOD TEAM																					
Administrative Leadtime <i>(in Months)</i> : 11										Production Leadtime <i>(in Months)</i> : 6																					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023																								
Contract Dates	Aug 2017	Aug 2018	Aug 2019																												
Delivery Dates	Feb 2018	Feb 2019	Feb 2020																												
Installation Information																															
Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D AIS A-Kit																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years	- / -	10 / 0.872	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.872																			
FY 2017	- / -	- / -	10 / 0.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.832																			
FY 2018	- / -	- / -	- / -	10 / 0.691	0 / 0.000	10 / 0.691	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.691																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.427	- / -	- / -	- / -	0 / 0.000	4 / 0.427																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	- / -	10 / 0.872	10 / 0.832	10 / 0.691	0 / 0.000	10 / 0.691	4 / 0.427	- / -	- / -	- / -	0 / 0.000	34 / 2.822																			
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	5	5	-	-	4	4	2	-	4	4	2	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34
Out	-	-	5	5	-	-	4	4	2	-	4	4	2	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34
Footnotes: ⁽⁷⁾ AIS planned production cut in is aircraft 35.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 7 / 001-17 LINK 16 (JTIDS for E-2C)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	6.147	0.000	0.000	0.000	4.146	4.034	0.269	0.000	0.000	14.596
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	6.147	0.000	0.000	0.000	4.146	4.034	0.269	0.000	0.000	14.596
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	6.147	0.000	0.000	0.000	4.146	4.034	0.269	0.000	0.000	14.596
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Link-16 crypto modernization upgrades and frequency remapping capability as mandated by NSA, DoT and DoD respectively and field the Link 16 capability into the E-2C with the Joint Tactical Information Distribution System (JTIDS) terminal which will improve the performance against current existing data links. Operational Safety and Improvement Program 01-17 also supports the software effort to integrate application standards into the mission computer and displays. The E-2C JPI kit development, being performed by SPAWAR PMW-150. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: JTIDS crypto modernization and frequency remapping E-2C system integration design began in FY14. Flight Test to begin in FY18. Procurement of kits will begin in FY20.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 7 / 001-17 LINK 16 (JTIDS for E-2C)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2C				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 001-17 LINK 16 (JTIDS for E-2C)													
A Kits													
Recurring													
1.1.1) LINK 16 (MIDS/JTIDS for E-2C) - Organic ⁽⁸⁾	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.618	13 / 0.585	- / -	- / -	- / -	27 / 1.203	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.618	- / 0.585	- / -	- / -	- / 0.000	- / 1.203	
B Kits													
Recurring													
2.1.1) LINK 16 (MIDS/JTIDS for E-2C) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.750	13 / 1.658	- / -	- / -	- / -	27 / 3.408	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.750	- / 1.658	- / -	- / -	- / 0.000	- / 3.408	
Subtotal: 001-17 LINK 16 (JTIDS for E-2C)	- / -	- / -	- / -	- / -	- / -	- / -	28 / 2.368	26 / 2.243	- / -	- / -	- / -	54 / 4.611	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.368	- / 2.243	- / -	- / -	- / 0.000	- / 4.611	
Support (All Modification Items)													
3.5) Other Support	- / -	- / -	- / 6.147	- / -	- / -	- / -	- / 1.222	- / 1.246	- / 0.176	- / -	- / -	- / 8.791	
Subtotal: Support	- / 0.000	- / -	- / 6.147	- / -	- / -	- / -	- / 1.222	- / 1.246	- / 0.176	- / -	- / 0.000	- / 8.791	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	6.147	0.000	0.000	0.000	4.146	4.034	0.269	0.000	0.000	14.596	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 001-17 LINK 16 (JTIDS for E-2C)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 001-17 LINK 16 (JTIDS for E-2C)		
Footnotes: (8) Installation will be completed at the Operational Level.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 8 / 008-17 E-2 ENTR			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.070	5.505	1.780	0.000	1.780	1.501	1.445	1.226	0.143	0.000	11.670
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.070	5.505	1.780	0.000	1.780	1.501	1.445	1.226	0.143	0.000	11.670
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.070	5.505	1.780	0.000	1.780	1.501	1.445	1.226	0.143	0.000	11.670
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Integrating the Embedded National Tactical Receiver (ENTR) provides the E-2D capability to receive Integrated Broadcast Service (IBS) intelligence data from national assets for real-time, emergent threat or Combat ID data, compressing tactical engagement timeline for both Naval Integrated Fire Control - Counter Air (NIFC-CA) kill chains. Version 4 is required due to obsolescence of Smart Mount. Due to obsolescence of E-2C legacy MATT receiver, it was not included in the E-2D baseline configuration. This capability will eliminate a high failure item seen in E-2C. This capability is an E-2 baseline Capability Design Document (CDD) threshold requirement and supports gap identified at Fleet Forces Command (FFC) wargaming workshop.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

E-2 ENTR system development and design completed in FY13. Flight test began in FY15. Procurement of kits began in FY18.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 8 / 008-17 E-2 ENTR			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2				Modification Type: Missions Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 008-17 E-2 ENTR													
A Kits													
Recurring													
1.1.1) E-2 ENTR - NonOrganic	- / -	- / -	10 / 0.059	10 / 0.061	- / -	10 / 0.061	10 / 0.062	9 / 0.057	5 / 0.032	- / -	- / -	44 / 0.271	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.059	- / 0.061	- / -	- / 0.061	- / 0.062	- / 0.057	- / 0.032	- / -	- / 0.000	- / 0.271	
B Kits													
Recurring													
2.1.1) E-2 ENTR - Organic	- / -	- / -	10 / 0.475	10 / 0.487	- / -	10 / 0.487	10 / 0.496	9 / 0.455	5 / 0.258	- / -	- / -	44 / 2.171	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.475	- / 0.487	- / -	- / 0.487	- / 0.496	- / 0.455	- / 0.258	- / -	- / 0.000	- / 2.171	
<i>Subtotal: 008-17 E-2 ENTR</i>	- / -	- / -	20 / 0.534	20 / 0.548	- / -	20 / 0.548	20 / 0.558	18 / 0.512	10 / 0.290	- / -	- / -	88 / 2.442	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 0.534	- / 0.548	- / -	- / 0.548	- / 0.558	- / 0.512	- / 0.290	- / -	- / 0.000	- / 2.442	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / 0.043	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.043	
3.2) ILS	- / -	- / 0.070	- / 0.136	- / 0.101	- / -	- / 0.101	- / 0.031	- / 0.030	- / 0.031	- / -	- / -	- / 0.399	
3.3) Training Equipment ⁽⁹⁾	- / -	- / -	- / 4.092	- / 0.198	- / -	- / 0.198	- / -	- / -	- / -	- / -	- / -	- / 4.290	
3.4) Support Equipment	- / -	- / -	- / 0.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.059	
3.5) Other Support	- / -	- / -	- / 0.641	- / 0.694	- / -	- / 0.694	- / 0.669	- / 0.655	- / 0.652	- / -	- / -	- / 3.311	
<i>Subtotal: Support</i>	- / 0.000	- / 0.070	- / 4.971	- / 0.993	- / -	- / 0.993	- / 0.700	- / 0.685	- / 0.683	- / -	- / 0.000	- / 8.102	
Installation													
<i>Modification Item 1 of 1:</i> 008-17 E-2 ENTR	- / 0.000	- / 0.000	- / 0.000	- / 0.239	- / 0.000	- / 0.239	- / 0.243	- / 0.248	- / 0.253	- / 0.143	- / 0.000	- / 1.126	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.239	- / -	- / 0.239	- / 0.243	- / 0.248	- / 0.253	- / 0.143	- / 0.000	- / 1.126	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.070	5.505	1.780	0.000	1.780	1.501	1.445	1.226	0.143	0.000	11.670	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 8 / 008-17 E-2 ENTR											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 008-17 E-2 ENTR																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: FIELD MOD TEAM																
Administrative Leadtime <i>(in Months)</i> : 6															Production Leadtime <i>(in Months)</i> : 9																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates						Mar 2018				Mar 2019				Mar 2020				Mar 2021				Mar 2022									
Delivery Dates						Dec 2018				Dec 2019				Dec 2020				Dec 2021				Dec 2022									
Installation Information																															
Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2 ENTR																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>								
Prior Years		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
FY 2017		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
FY 2018		-	/	-	-	/	-	10 / 0.239	0 / 0.000	10 / 0.239	-	/	-	-	/	-	-	/	-	-	/	-	0 / 0.000	10 / 0.239							
FY 2019		-	/	-	-	/	-	-	/	-	-	/	-	10 / 0.243	-	/	-	-	/	-	-	/	-	0 / 0.000	10 / 0.243						
FY 2020		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	10 / 0.248	-	/	-	-	/	-	0 / 0.000	10 / 0.248						
FY 2021		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	9 / 0.253	-	/	-	0 / 0.000	9 / 0.253						
FY 2022		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	5 / 0.143	0 / 0.000	5 / 0.143						
FY 2023		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
To Complete		-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-	-	/	-						
Total		-	/	-	-	/	-	10 / 0.239	0 / 0.000	10 / 0.239	10 / 0.243	10 / 0.248	9 / 0.253	5 / 0.143	0 / 0.000	44 / 1.126															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	3	3	2	2	3	3	2	2	3	3	2	2	2	2	2	3	3	2	-	-	-	44
Out	-	-	-	-	-	-	-	-	-	3	3	2	2	3	3	2	2	3	3	2	2	2	2	2	3	3	2	-	-	-	44
Method of Implementation (Organic): E-2 ENTR - Not Installed																															
																				Installation Quantity: 44											
Footnotes:																															
(9) FY18 and FY19 Training requirements; Integration and verification of ENTR v4 capability into aircrew and maintenance training devices and updates applicable software.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 9 / 012-17 Structural Enhancements			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	4.509	11.385	10.924	0.000	10.924	6.975	5.621	2.637	2.636	77.942	122.629
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	4.509	11.385	10.924	0.000	10.924	6.975	5.621	2.637	2.636	77.942	122.629
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	4.509	11.385	10.924	0.000	10.924	6.975	5.621	2.637	2.636	77.942	122.629
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The structural modifications to the E-2 series aircraft specifically target improvements to the structural integrity and support costs. These improvements are a vital requirement for E-2 to maintain the aircraft in the Fleet until the planned sundown. Structural changes to the wing center section will increase survivability, improve maintainability and aircraft availability, eliminate component interferences, improve suitability and correct safety related issues. This effort will sustain the E-2 Fleet in an affordable manner until the follow-on aircraft are fully fielded.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Modifications to the E-2 wing center section began in FY14.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 9 / 012-17 Structural Enhancements				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 012-17 Structural Enhancements													
B Kits													
Recurring													
1.1.1) WCS- E2C Modification - NonOrganic	- / -	4 / 3.045	8 / 6.743	5 / 3.781	- / -	5 / 3.781	5 / 1.952	- / -	- / -	- / -	- / -	22 / 15.521	
1.1.2) WCS- E2D Modification - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.537	1 / 0.548	1 / 0.559	43 / 24.520	46 / 26.164	
<i>Subtotal: Recurring</i>	- / 0.000	- / 3.045	- / 6.743	- / 3.781	- / -	- / 3.781	- / 1.952	- / 0.537	- / 0.548	- / 0.559	- / 24.520	- / 41.685	
<i>Subtotal: 012-17 Structural Enhancements</i>	- / -	4 / 3.045	8 / 6.743	5 / 3.781	- / -	5 / 3.781	5 / 1.952	1 / 0.537	1 / 0.548	1 / 0.559	43 / 24.520	68 / 41.685	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 3.045	- / 6.743	- / 3.781	- / -	- / 3.781	- / 1.952	- / 0.537	- / 0.548	- / 0.559	- / 24.520	- / 41.685	
Support (All Modification Items)													
2.1) Data	- / -	- / 0.075	- / 0.077	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.152	
2.2) ILS	- / -	- / 0.239	- / 0.389	- / 0.396	- / -	- / 0.396	- / 0.346	- / 0.324	- / 0.318	- / 0.311	- / 4.447	- / 6.770	
2.4) Other Support	- / -	- / 1.150	- / 1.173	- / 1.009	- / -	- / 1.009	- / 1.020	- / 1.030	- / 1.010	- / 0.990	- / 14.141	- / 21.523	
<i>Subtotal: Support</i>	- / 0.000	- / 1.464	- / 1.639	- / 1.405	- / -	- / 1.405	- / 1.366	- / 1.354	- / 1.328	- / 1.301	- / 18.588	- / 28.445	
Installation													
<i>Modification Item 1 of 1:</i> 012-17 Structural Enhancements	- / 0.000	- / 0.000	- / 3.003	- / 5.738	- / 0.000	- / 5.738	- / 3.657	- / 3.730	- / 0.761	- / 0.776	- / 34.834	- / 52.499	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 3.003	- / 5.738	- / -	- / 5.738	- / 3.657	- / 3.730	- / 0.761	- / 0.776	- / 34.834	- / 52.499	
Total													
Total Cost (Procurement + Support + Installation)	0.000	4.509	11.385	10.924	0.000	10.924	6.975	5.621	2.637	2.636	77.942	122.629	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 9 / 012-17 Structural Enhancements											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 012-17 Structural Enhancements																															
Manufacturer Information																															
Manufacturer Name: WCS- E2C Modification															Manufacturer Location: Field Mod Team																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 10																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Mar 2017				Mar 2018				Mar 2019				Mar 2020																	
Delivery Dates		Jan 2018				Jan 2019				Jan 2020				Jan 2021																	
Manufacturer Name: WCS- E2D Install															Manufacturer Location: Field Mod Team																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 10																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																		Mar 2021				Mar 2022				Apr 2022					
Delivery Dates																		Jan 2022				Jan 2023				Jan 2024					
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: WCS- E2C Modification																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	4 / 3.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 3.003																		
FY 2018		- / -	- / -	- / -	8 / 5.738	0 / 0.000	8 / 5.738	- / -	- / -	- / -	- / -	0 / 0.000	8 / 5.738																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.657	- / -	- / -	- / -	0 / 0.000	5 / 3.657																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.730	- / -	- / -	0 / 0.000	5 / 3.730																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	4 / 3.003	8 / 5.738	0 / 0.000	8 / 5.738	5 / 3.657	5 / 3.730	- / -	- / -	0 / 0.000	22 / 16.128																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	1	1	2	-	2	3	3	-	2	2	1	-	2	2	1	-	-	-	-	-	-	-	-	-	22
Out	-	-	-	-	-	-	1	1	2	-	2	3	3	-	2	2	1	-	2	2	1	-	-	-	-	-	-	-	-	-	22

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 9 / 012-17 Structural Enhancements											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 012-17 Structural Enhancements																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: WCS- E2D Modification																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.761	- / -	0 / 0.000	1 / 0.761																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.776	0 / 0.000	1 / 0.776																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.791	1 / 0.791																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 34.043	43 / 34.043																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.761	1 / 0.776	44 / 34.834	46 / 36.371																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	44	46
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	44	46

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 10 / 013-17 Network File Server			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	2.801	1.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.945
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	2.801	1.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.945
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	2.801	1.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.945
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The E-2D aircraft utilize TS-282 FN E-2D Network File Servers (NFS) to load software programs and record data directly associated with the planned and tactical activity during the performance of its missions. This program is to retrofit the NFS into E-2D aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The Preliminary Design Review was completed in the 1st QTR of FY12. Procurement of kits began in 3rd QTR of FY17.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 10 / 013-17 Network File Server			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 013-17 Network File Server													
A Kits													
Recurring													
1.1.1) NFS A Kits - NonOrganic	- / -	24 / 2.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.801	
<i>Subtotal: Recurring</i>	- / 0.000	- / 2.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.801	
<i>Subtotal: 013-17 Network File Server</i>	- / -	24 / 2.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.801	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 2.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.801	
Support (All Modification Items)													
3.2) ILS	- / -	- / -	- / 0.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.034	
3.5) Other Support	- / -	- / -	- / 0.103	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.103	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 0.137	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.137	
Installation													
<i>Modification Item 1 of 1:</i> 013-17 Network File Server	- / 0.000	- / 0.000	- / 1.007	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1.007	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 1.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.007	
Total													
Total Cost (Procurement + Support + Installation)	0.000	2.801	1.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.945	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 10 / 013-17 Network File Server											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 013-17 Network File Server																															
Manufacturer Information																															
Manufacturer Name: NFS ⁽¹⁰⁾															Manufacturer Location: Field Mod Team																
Administrative Leadtime (in Months): 7															Production Leadtime (in Months): 8																
Dates		FY 2017			FY 2018			FY 2019			FY 2020			FY 2021			FY 2022			FY 2023											
Contract Dates		May 2017																													
Delivery Dates		Jan 2018																													
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: NFS A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	24 / 1.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 1.007																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	24 / 1.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 1.007																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	-	-	-	-	-	-	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Footnotes: ⁽¹⁰⁾ NFS Install requirement changed from O Level Install to Field Mod Team Install.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 11 / 001-18 E-2 MIDS/JTRS TTNT			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	8.359	28.359	32.937	30.780	8.237	108.672
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	8.359	28.359	32.937	30.780	8.237	108.672
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	8.359	28.359	32.937	30.780	8.237	108.672
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Funding will be used to integrate and field the Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) with the Tactical Targeting Network Technology (TTNT) wave form. This capability will integrate the current E-2 Link-16 data link architecture with a time-sensitive targeting technology as part of the Naval Integrated Fire Control-Counter Air concept for fleet air and missile defense.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

MIDS/JTRS TTNT system development and design began in FY14. Flight test to begin in FY18. Procurement of kits will begin in FY20.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 11 / 001-18 E-2 MIDS/JTRS TTNT			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancements				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 001-18 E-2 MIDS/JTRS TTNT													
A Kits													
Recurring													
1.1.1) E-2 MIDS/JTRS TTNT - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.003	17 / 5.797	17 / 5.913	15 / 5.322	- / -	52 / 18.035	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.003	- / 5.797	- / 5.913	- / 5.322	- / 0.000	- / 18.035	
B Kits													
Recurring													
2.1.1) MIDS-JTRS TTNT Terminal - Organic	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.119	17 / 18.028	17 / 18.388	15 / 16.550	- / -	52 / 56.085	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.119	- / 18.028	- / 18.388	- / 16.550	- / 0.000	- / 56.085	
<i>Subtotal: 001-18 E-2 MIDS/JTRS TTNT</i>	- / -	- / -	- / -	- / -	- / -	- / -	6 / 4.122	34 / 23.825	34 / 24.301	30 / 21.872	- / -	104 / 74.120	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 4.122	- / 23.825	- / 24.301	- / 21.872	- / 0.000	- / 74.120	
Installation													
<i>Modification Item 1 of 1:</i> 001-18 E-2 MIDS/JTRS TTNT	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1.200	- / 6.936	- / 7.074	- / 6.367	- / 21.577	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	- / 6.936	- / 7.074	- / 6.367	- / 21.577	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	8.359	28.359	32.937	30.780	8.237	108.672	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 11 / 001-18 E-2 MIDS/JTRS TTNT											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 001-18 E-2 MIDS/JTRS TTNT																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: FIELD MOD TEAM																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates														Mar 2020				Mar 2021				Mar 2022				Mar 2023					
Delivery Dates														Mar 2021				Mar 2022				Mar 2023				Mar 2024					
Installation Information																															
Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2 MIDS/JTRS TTNT																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 1.200		- / -		- / -		0 / 0.000		3 / 1.200					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		17 / 6.936		- / -		0 / 0.000		17 / 6.936					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		17 / 7.074		0 / 0.000		17 / 7.074					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		15 / 6.367		15 / 6.367					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 1.200		17 / 6.936		17 / 7.074		15 / 6.367		52 / 21.577					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	5	6	6	-	5	6	6	15	52
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	5	6	6	-	5	6	6	15	52
Method of Implementation (Organic): MIDS-JTRS TTNT Terminal - Not Installed																															
																				Installation Quantity: 52											

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 12 / 002-18 E-2D Aerial Refueling			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	31.535	41.884	0.000	41.884	42.877	39.742	40.516	43.060	166.200	405.814
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	31.535	41.884	0.000	41.884	42.877	39.742	40.516	43.060	166.200	405.814
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	31.535	41.884	0.000	41.884	42.877	39.742	40.516	43.060	166.200	405.814
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The E-2D Aerial Refueling (AR) OSIP (2-18), will allow the E-2 to receive fuel from various organic and non-organic tanker aircraft. It will provide Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Aerial Refueling risk reduction began in FY12. Engineering & Manufacturing Development began in FY13. Preliminary Design Review was 4th quarter FY14 and Critical Design Review was in 3rd quarter FY15. Flight test completed in FY17. Procurement of kits began in FY18.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 12 / 002-18 E-2D Aerial Refueling			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 002-18 E-2D Aerial Refueling													
A Kits													
Recurring													
1.1.1) E-2D Aerial Refueling - NonOrganic ⁽¹¹⁾	- / -	- / -	4 / 3.138	5 / 4.002	- / -	5 / 4.002	5 / 4.082	5 / 4.204	5 / 4.288	5 / 4.361	14 / 12.396	43 / 36.471	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 3.138	- / 4.002	- / -	- / 4.002	- / 4.082	- / 4.204	- / 4.288	- / 4.361	- / 12.396	- / 36.471	
Non-Recurring													
1.2.1) Non-recurring Engineering - Organic	- / -	- / -	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.500	
B Kits													
Recurring													
2.1.1) E-2D Aerial Refueling - Organic	- / -	- / -	4 / 3.322	5 / 4.235	- / -	5 / 4.235	5 / 4.319	5 / 4.450	5 / 4.521	5 / 4.577	14 / 13.174	43 / 38.598	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 3.322	- / 4.235	- / -	- / 4.235	- / 4.319	- / 4.450	- / 4.521	- / 4.577	- / 13.174	- / 38.598	
<i>Subtotal: 002-18 E-2D Aerial Refueling</i>	- / -	- / -	8 / 7.960	10 / 8.237	- / -	10 / 8.237	10 / 8.401	10 / 8.654	10 / 8.809	10 / 8.938	28 / 25.570	86 / 76.569	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 7.960	- / 8.237	- / -	- / 8.237	- / 8.401	- / 8.654	- / 8.809	- / 8.938	- / 25.570	- / 76.569	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / 1.250	- / 0.841	- / -	- / 0.841	- / 0.857	- / 0.874	- / 0.891	- / 0.908	- / -	- / 5.621	
3.2) ILS	- / -	- / -	- / 1.632	- / 1.814	- / -	- / 1.814	- / 1.861	- / 1.991	- / 2.031	- / 2.071	- / 6.790	- / 18.190	
3.3) Training Equipment ⁽¹²⁾	- / -	- / -	- / 8.453	- / 6.453	- / -	- / 6.453	- / 5.125	- / -	- / -	- / -	- / -	- / 20.031	
3.4) Support Equipment	- / -	- / -	- / 9.559	- / 3.616	- / -	- / 3.616	- / 1.139	- / 1.468	- / 1.495	- / 1.382	- / -	- / 18.659	
3.5) Other Support	- / -	- / -	- / 2.681	- / 2.735	- / -	- / 2.735	- / 2.789	- / 2.845	- / 2.902	- / 2.994	- / 22.876	- / 39.822	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 23.575	- / 15.459	- / -	- / 15.459	- / 11.771	- / 7.178	- / 7.319	- / 7.355	- / 29.666	- / 102.323	
Installation													
<i>Modification Item 1 of 1:</i> 002-18 E-2D Aerial Refueling	- / 0.000	- / 0.000	- / 0.000	- / 18.188	- / 0.000	- / 18.188	- / 22.705	- / 23.910	- / 24.388	- / 26.767	- / 110.964	- / 226.922	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 18.188	- / -	- / 18.188	- / 22.705	- / 23.910	- / 24.388	- / 26.767	- / 110.964	- / 226.922	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	31.535	41.884	0.000	41.884	42.877	39.742	40.516	43.060	166.200	405.814	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 12 / 002-18 E-2D Aerial Refueling											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 002-18 E-2D Aerial Refueling																															
Manufacturer Information																															
Manufacturer Name: IFR															Manufacturer Location: FIELD MOD TEAM																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 6																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates						Mar 2018				Mar 2019				Mar 2020				Mar 2021				Mar 2022				Mar 2023					
Delivery Dates						Sep 2018				Sep 2019				Sep 2020				Sep 2021				Sep 2022				Sep 2023					
Installation Information																															
Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D Aerial Refueling																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2017		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2018		- / -	- / -		- / -		4 / 18.188		0 / 0.000		4 / 18.188		- / -		- / -		- / -		- / -		0 / 0.000		4 / 18.188		4 / 18.188						
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		5 / 22.705		- / -		- / -		- / -		0 / 0.000		5 / 22.705		5 / 22.705						
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		5 / 23.910		- / -		- / -		0 / 0.000		5 / 23.910		5 / 23.910						
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 24.388		- / -		0 / 0.000		5 / 24.388		5 / 24.388						
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 26.767		0 / 0.000		5 / 26.767		5 / 26.767						
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 26.767		5 / 26.767		5 / 26.767						
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		14 / 84.197		14 / 84.197		14 / 84.197						
Total		- / -	- / -		- / -		4 / 18.188		0 / 0.000		4 / 18.188		5 / 22.705		5 / 23.910		5 / 24.388		5 / 26.767		19 / 110.964		43 / 226.922		43 / 226.922						
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	1	2	1	-	2	2	1	-	2	2	1	-	2	2	1	-	2	2	1	-	19	43
Out	-	-	-	-	-	-	-	-	-	1	2	1	-	2	2	1	-	2	2	1	-	2	2	1	-	2	2	1	-	19	43
Method of Implementation (Organic): E-2D Aerial Refueling - Not Installed																															
																				Installation Quantity: 43											
Footnotes: ⁽¹¹⁾ Aerial Refueling is planned to cut into the production line on aircraft 46.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 12 / 002-18 E-2D Aerial Refueling
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(12) FY18 through FY20 Training requirements; Integration and verification of Aerial Refueling capability into aircrew and maintenance training devices and updates applicable software.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 13 / 003-18 E-2D SIPR CHAT

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	12.907	5.286	0.000	5.286	8.960	6.929	5.790	2.919	0.000	42.791
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	12.907	5.286	0.000	5.286	8.960	6.929	5.790	2.919	0.000	42.791
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	12.907	5.286	0.000	5.286	8.960	6.929	5.790	2.919	0.000	42.791
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The E-2D Secret Internet Protocol Router Chat (SIPR) OSIP (3-18), will support the integration of current collaboration tools including tactical "chat" (text) communications, real-time tasking, and Air Tasking Order distribution. Recent real world operations have demonstrated a migration of Command and Control communications from voice to Internet protocol based networks.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

SIPR Chat system development and design began in FY14. Flight Test to occur FY19. Procurement of kits will begin in FY19.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 13 / 003-18 E-2D SIPR CHAT					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 003-18 E-2D SIPR CHAT													
A Kits													
Recurring													
1.1.1) E-2D SIPR CHAT - NonOrganic ⁽¹³⁾		- / -	- / -	- / -	5 / 0.700	- / -	5 / 0.700	17 / 2.426	17 / 2.475	13 / 1.930	- / -	- / -	52 / 7.531
Subtotal: Recurring		- / 0.000	- / -	- / -	- / 0.700	- / -	- / 0.700	- / 2.426	- / 2.475	- / 1.930	- / -	- / 0.000	- / 7.531
B Kits													
Recurring													
2.1.1) E-2D SIPR CHAT - Organic		- / -	- / -	- / -	5 / 0.061	- / -	5 / 0.061	17 / 0.212	17 / 0.216	13 / 0.169	- / -	- / -	52 / 0.658
Subtotal: Recurring		- / 0.000	- / -	- / -	- / 0.061	- / -	- / 0.061	- / 0.212	- / 0.216	- / 0.169	- / -	- / 0.000	- / 0.658
Subtotal: 003-18 E-2D SIPR CHAT		- / -	- / -	- / -	10 / 0.761	- / -	10 / 0.761	34 / 2.638	34 / 2.691	26 / 2.099	- / -	- / -	104 / 8.189
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / -	- / 0.761	- / -	- / 0.761	- / 2.638	- / 2.691	- / 2.099	- / -	- / 0.000	- / 8.189
Support (All Modification Items)													
3.1) Data		- / -	- / -	- / -	- / 0.631	- / -	- / 0.631	- / 0.344	- / 0.170	- / -	- / -	- / -	- / 1.145
3.2) ILS		- / -	- / -	- / -	- / 0.509	- / -	- / 0.509	- / 0.289	- / 0.338	- / 0.291	- / 0.296	- / -	- / 1.723
3.3) Training Equipment ⁽¹⁴⁾		- / -	- / -	- / -	- / 1.581	- / -	- / 1.581	- / 3.547	- / 0.661	- / 0.270	- / -	- / -	- / 6.059
3.4) Support Equipment ⁽¹⁵⁾		- / -	- / -	- / -	- / 0.541	- / -	- / 0.541	- / 0.350	- / -	- / -	- / -	- / -	- / 0.891
3.5) Other Support		- / -	- / -	- / 12.907	- / 1.263	- / -	- / 1.263	- / 1.285	- / 1.308	- / 1.334	- / 1.221	- / -	- / 19.318
Subtotal: Support		- / 0.000	- / -	- / 12.907	- / 4.525	- / -	- / 4.525	- / 5.815	- / 2.477	- / 1.895	- / 1.517	- / 0.000	- / 29.136
Installation													
Modification Item 1 of 1: 003-18 E-2D SIPR CHAT		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.507	- / 1.761	- / 1.796	- / 1.402	- / 0.000	- / 5.466
Subtotal: Installation		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.507	- / 1.761	- / 1.796	- / 1.402	- / 0.000	- / 5.466
Total													
Total Cost (Procurement + Support + Installation)		0.000	0.000	12.907	5.286	0.000	5.286	8.960	6.929	5.790	2.919	0.000	42.791

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 13 / 003-18 E-2D SIPR CHAT											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 003-18 E-2D SIPR CHAT																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: Field Mod Team																
Administrative Leadtime <i>(in Months)</i> : 6															Production Leadtime <i>(in Months)</i> : 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates										Mar 2019				Mar 2020				Mar 2021				Mar 2022									
Delivery Dates										Mar 2020				Mar 2021				Mar 2022				Mar 2023									
Installation Information																															
Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D SIPR CHAT																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.507		- / -		- / -		- / -		0 / 0.000		5 / 0.507					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		17 / 1.761		- / -		- / -		0 / 0.000		17 / 1.761					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		17 / 1.796		- / -		0 / 0.000		17 / 1.796					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		13 / 1.402		0 / 0.000		13 / 1.402					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.507		17 / 1.761		17 / 1.796		13 / 1.402		0 / 0.000		52 / 5.466					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	-	5	6	6	-	5	6	6	-	4	4	5	-	52
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	-	5	6	6	-	5	6	6	-	4	4	5	-	52
Method of Implementation (Organic): E-2D SIPR CHAT - Not Installed																															
																				Installation Quantity: 52											
Footnotes: ⁽¹³⁾ SIPRCHAT is planned to cut into the production line at aircraft 53.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 13 / 003-18 E-2D SIPR CHAT
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(14) FY19-FY22 Training requirements; Integration and verification of SIPR CHAT capability into aircrew and maintenance training devices and updates applicable software. (15) FY19-20 Support Equipment requirements; Peculiar SE required to support SIPR CHAT Kit Procurements.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 14 / 007-18 Crypto Modernization			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	5.910	2.641	0.000	2.641	6.381	6.522	2.365	0.000	0.000	23.819
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	5.910	2.641	0.000	2.641	6.381	6.522	2.365	0.000	0.000	23.819
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	5.910	2.641	0.000	2.641	6.381	6.522	2.365	0.000	0.000	23.819
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Description:

Funding will be used to integrate and field the Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) with Concurrent Multi-Netting 4. This capability will integrate the current E-2D Link -16 data link architecture with Crypto Modernization and Frequency Remapping with Concurrent Contention Receive and Concurrent Multi-Netting.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 14 / 007-18 Crypto Modernization			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancement				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 007-18 Crypto Modernization													
A Kits													
Recurring													
1.1.1) CMN-4 Cabling - NonOrganic	- / -	- / -	- / -	5 / 0.478	- / -	5 / 0.478	17 / 1.656	13 / 1.292	- / -	- / -	- / -	35 / 3.426	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 0.478	- / -	- / 0.478	- / 1.656	- / 1.292	- / -	- / -	- / 0.000	- / 3.426	
B Kits													
Recurring													
2.1.1) MIDS/JTRS with CMN-4 radio and Amplifier - Organic	- / -	- / -	- / -	5 / 0.854	- / -	5 / 0.854	17 / 2.963	13 / 2.311	- / -	- / -	- / -	35 / 6.128	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 0.854	- / -	- / 0.854	- / 2.963	- / 2.311	- / -	- / -	- / 0.000	- / 6.128	
Subtotal: 007-18 Crypto Modernization	- / -	- / -	- / -	10 / 1.332	- / -	10 / 1.332	34 / 4.619	26 / 3.603	- / -	- / -	- / -	70 / 9.554	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 1.332	- / -	- / 1.332	- / 4.619	- / 3.603	- / -	- / -	- / 0.000	- / 9.554	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.102	- / 0.144	- / 0.141	- / -	- / -	- / 0.487	
3.2) ILS	- / -	- / -	- / -	- / 0.065	- / -	- / 0.065	- / 0.066	- / 0.179	- / 0.115	- / -	- / -	- / 0.425	
3.3) Training	- / -	- / -	- / -	- / 0.463	- / -	- / 0.463	- / 0.400	- / 0.100	- / -	- / -	- / -	- / 0.963	
3.5) Other Support	- / -	- / -	- / 5.910	- / 0.681	- / -	- / 0.681	- / 0.694	- / 0.779	- / 0.783	- / -	- / -	- / 8.847	
Subtotal: Support	- / 0.000	- / -	- / 5.910	- / 1.309	- / -	- / 1.309	- / 1.262	- / 1.202	- / 1.039	- / -	- / 0.000	- / 10.722	
Installation													
Modification Item 1 of 1: 007-18 Crypto Modernization	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.500	- / 1.717	- / 1.326	- / 0.000	- / 0.000	- / 3.543	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 1.717	- / 1.326	- / -	- / 0.000	- / 3.543	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	5.910	2.641	0.000	2.641	6.381	6.522	2.365	0.000	0.000	23.819	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 14 / 007-18 Crypto Modernization											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 007-18 Crypto Modernization																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: Field Mod Team																
Administrative Leadtime <i>(in Months)</i> : 6															Production Leadtime <i>(in Months)</i> : 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates						Mar 2019				Mar 2020				Mar 2021																	
Delivery Dates						Mar 2020				Mar 2021				Mar 2022																	
Installation Information																															
Method of Implementation: Field Mod Install:: Installation Name: CMN-4 Cabling																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)										
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2017		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2018		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		5 / 0.500		- / -		- / -		- / -		0 / 0.000		5 / 0.500								
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		17 / 1.717		- / -		- / -		0 / 0.000		17 / 1.717								
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		13 / 1.326		- / -		0 / 0.000		13 / 1.326								
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
Total		- / -	- / -		- / -		- / -		- / -		- / -		5 / 0.500		17 / 1.717		13 / 1.326		- / -		0 / 0.000		35 / 3.543								
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	-	5	5	7	-	4	4	5	-	-	-	-	-	35
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	-	5	5	7	-	4	4	5	-	-	-	-	-	35
Method of Implementation (Organic): MIDS/JTRS with CMN-4 radio and Amplifier																															
																				Installation Quantity: 35											

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 15 / 006-19 GPS Modernization

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	2.963	10.459	10.930	11.363	3.234	38.949
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	2.963	10.459	10.930	11.363	3.234	38.949
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	2.963	10.459	10.930	11.363	3.234	38.949
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides Naval platforms improved access to Global Positioning System signals in challenged and jamming environments. Modernized GPS receivers to utilize the new M-Code GPS Signal in Space, incorporate enhanced cryptology, deliver greater position and time accuracy, provide improved protection against signal spoofing as compared to legacy Selective Anti-jam Anti-Spoof Module (SAASM) receivers and to replace an obsolescence issue. Additionally, GPS Modernization delivers increased GPS anti-jam protection and enables blue force GPS electronic attack. Plays a pivotal role in Anti-Access Area Denial (A2AD) fight. Operationalizes risk reduction efforts currently underway by the Air Force and integrates it into Naval ships, submarines, aircraft, weapons systems, and GPS enabled systems imbedded on those platforms. Enables compliance with Public Law 111-383 and Office of the Secretary of Defense Oversight Council guidance.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 15 / 006-19 GPS Modernization			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancement				Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: 006-19 GPS Modernization</i>													
B Kits													
Recurring													
2.1.1) GPS Modernization - NonOrganic ⁽¹⁶⁾													
	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.514	20 / 6.176	20 / 6.300	16 / 6.641	- / -	61 / 20.631	
<i>Subtotal: Recurring</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.514	- / 6.176	- / 6.300	- / 6.641	- / 0.000	- / 20.631	
<i>Subtotal: 006-19 GPS Modernization</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.514	20 / 6.176	20 / 6.300	16 / 6.641	- / -	61 / 20.631	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.514	- / 6.176	- / 6.300	- / 6.641	- / 0.000	- / 20.631	
Installation													
<i>Modification Item 1 of 1: 006-19 GPS Modernization</i>													
	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.178	- / 0.726	- / 0.741	- / 1.346	- / 2.991	
<i>Subtotal: Installation</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.178	- / 0.726	- / 0.741	- / 1.346	- / 2.991	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	2.963	10.459	10.930	11.363	3.234	38.949	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 15 / 006-19 GPS Modernization																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 006-19 GPS Modernization																															
Manufacturer Information																															
Manufacturer Name: Not Specified.										Manufacturer Location: Not Specified..																					
Administrative Leadtime (in Months): 0										Production Leadtime (in Months): 0																					
Dates		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023																	
Contract Dates																															
Delivery Dates																															
Manufacturer Name: GPS Modernization										Manufacturer Location: Field Mod Team																					
Administrative Leadtime (in Months): 6										Production Leadtime (in Months): 9																					
Dates		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023																	
Contract Dates								Mar 2020		Mar 2021		Mar 2022																			
Delivery Dates								Dec 2020		Dec 2021		Dec 2022																			
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: GPS Modernization																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.178	- / -	- / -	0 / 0.000	5 / 0.178																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.726	- / -	0 / 0.000	20 / 0.726																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.741	0 / 0.000	20 / 0.741																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.346	16 / 1.346																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.178	20 / 0.726	20 / 0.741	16 / 1.346	61 / 2.991																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	10	10	-	-	10	10	-	-	16	61
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	10	10	-	-	10	10	-	-	16	61

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 15 / 006-19 GPS Modernization
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: (16) 2 Global Positioning System boxes per aircraft.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 16 / 011-19 Navigational Warfare (NAVWAR)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	2.512	0.000	2.512	5.633	5.315	5.372	5.288	3.015	27.135
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	2.512	0.000	2.512	5.633	5.315	5.372	5.288	3.015	27.135
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	2.512	0.000	2.512	5.633	5.315	5.372	5.288	3.015	27.135
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Procurement of kits and installs to provide a Navigation Warfare (NAVWAR) capability for the E-2D Advanced Hawkeye (AHE) aircraft platform, including the integration of the Advanced Digital Antenna Production (ADAP) Controlled Reception Pattern Antenna (CRPA) and Antenna Electronics. NAVWAR capability allows the E-2D AHE to operate in areas where signal disruption would prohibit unprotected GPS reception. The E-2D AHE will be able to provide continuous operations in a degraded GPS environment for mission areas that depend on GPS for precise position, navigation, and timing.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 16 / 011-19 Navigational Warfare (NAVWAR)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 011-19 Navigational Warfare (NAVWAR)													
A Kits													
Recurring													
1.1.1) Navwar A Kit - NonOrganic	- / -	- / -	- / -	10 / 0.026	- / -	10 / 0.026	10 / 0.026	10 / 0.027	10 / 0.027	9 / 0.025	- / -	49 / 0.131	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 0.026	- / -	- / 0.026	- / 0.026	- / 0.027	- / 0.027	- / 0.025	- / 0.000	- / 0.131	
B Kits													
Recurring													
2.1.1) Navwar B Kit - Organic	- / -	- / -	- / -	10 / 1.787	- / -	10 / 1.787	10 / 1.823	10 / 1.860	10 / 1.897	9 / 1.756	- / -	49 / 9.123	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 1.787	- / -	- / 1.787	- / 1.823	- / 1.860	- / 1.897	- / 1.756	- / 0.000	- / 9.123	
Subtotal: 011-19 Navigational Warfare (NAVWAR)	- / -	- / -	- / -	20 / 1.813	- / -	20 / 1.813	20 / 1.849	20 / 1.887	20 / 1.924	18 / 1.781	- / -	98 / 9.254	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 1.813	- / -	- / 1.813	- / 1.849	- / 1.887	- / 1.924	- / 1.781	- / 0.000	- / 9.254	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / 0.145	- / -	- / 0.145	- / 0.098	- / -	- / -	- / -	- / -	- / 0.243	
3.2) ILS ⁽¹⁷⁾	- / -	- / -	- / -	- / 0.058	- / -	- / 0.058	- / 0.145	- / 0.144	- / 0.146	- / 0.144	- / 0.054	- / 0.691	
3.4) Support Equipment	- / -	- / -	- / -	- / 0.202	- / -	- / 0.202	- / 0.206	- / -	- / -	- / -	- / -	- / 0.408	
3.5) Other Support ⁽¹⁸⁾	- / -	- / -	- / -	- / 0.294	- / -	- / 0.294	- / 0.411	- / 0.419	- / 0.428	- / 0.431	- / 0.270	- / 2.253	
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.699	- / -	- / 0.699	- / 0.860	- / 0.563	- / 0.574	- / 0.575	- / 0.324	- / 3.595	
Installation													
Modification Item 1 of 1: 011-19 Navigational Warfare (NAVWAR)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2.763	- / 2.818	- / 2.874	- / 2.932	- / 2.691	- / 14.078	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.763	- / 2.818	- / 2.874	- / 2.932	- / 2.691	- / 14.078	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	2.512	0.000	2.512	5.633	5.315	5.372	5.288	3.015	27.135	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 16 / 011-19 Navigational Warfare (NAVWAR)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 011-19 Navigational Warfare (NAVWAR)																															
Manufacturer Information																															
Manufacturer Name: NAVWAR Installs															Manufacturer Location: Field Mod Team																
Administrative Leadtime <i>(in Months)</i> : 6															Production Leadtime <i>(in Months)</i> : 10																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates										Mar 2019				Mar 2020				Mar 2021				Mar 2022				Mar 2023					
Delivery Dates										Jan 2020				Jan 2021				Jan 2022				Jan 2023				Jan 2024					
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: Navwar A Kit																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		10 / 2.763		- / -		- / -		- / -		- / -		0 / 0.000		10 / 2.763					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		10 / 2.818		- / -		- / -		- / -		0 / 0.000		10 / 2.818					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		10 / 2.874		- / -		- / -		0 / 0.000		10 / 2.874					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		10 / 2.932		- / -		0 / 0.000		10 / 2.932					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		9 / 2.691		9 / 2.691					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		- / -		- / -		- / -		10 / 2.763		10 / 2.818		10 / 2.874		10 / 2.932		9 / 2.691		49 / 14.078							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	-	3	3	4	-	3	3	4	-	3	3	4	9	49
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	-	3	3	4	-	3	3	4	-	3	3	4	9	49
Method of Implementation (Organic): Navwar B Kit - Not Installed																															
															Installation Quantity: 49																
Footnotes:																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 16 / 011-19 Navigational Warfare (NAVWAR)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(17) FY19 to FY20 ILS increased due to additional support required for installs as well as Kit Procurements. (18) FY19 to FY20 Other Support increased due to additional support required for installs as well as Kit Procurements.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 17 / 002-20 Electronic Support Measures			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	35.521	36.706	37.446	22.240	131.913
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	35.521	36.706	37.446	22.240	131.913
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	35.521	36.706	37.446	22.240	131.913
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

E-2D Electronic Support Measures (ESM) Combat Identification (CID) upgrade integrates digital receiver and processing technology, enables E-2 multi-ship geo-location and Time Difference of Arrival (TDOA) with other sensors across Link-16 and Tactical Targeting Network Technology (TTNT), and provides a precision internal clock source to enable netted detection of advanced threat radar systems. Connectivity to Electronic Warfare (EW) netted sensors will provide multiple node, real-time, enhanced CID capabilities. The digital upgrade greatly enhances CID and battlespace awareness, and improve effectiveness of blue forces.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The Preliminary Design Review will be completed in 2nd QTR of FY19. Procurement of kits will begin in FY21.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 17 / 002-20 Electronic Support Measures				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancement				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 002-20 Electronic Support Measures													
A Kits													
Recurring													
1.1.1) Electronic Support Measures - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.617	12 / 1.649	12 / 1.682	12 / 1.585	48 / 6.533	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.617	- / 1.649	- / 1.682	- / 1.585	- / 6.533	
B Kits													
Recurring													
2.1.1) Electronic Support Measures - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 16.745	12 / 17.248	12 / 18.001	12 / 16.258	48 / 68.252	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.745	- / 17.248	- / 18.001	- / 16.258	- / 68.252	
<i>Subtotal: 002-20 Electronic Support Measures</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 18.362	24 / 18.897	24 / 19.683	24 / 17.843	96 / 74.785	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.362	- / 18.897	- / 19.683	- / 17.843	- / 74.785	
Installation													
<i>Modification Item 1 of 1:</i> 002-20 Electronic Support Measures													
<i>Subtotal: Installation</i>	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.445	- / 0.454	- / 1.051	- / 1.950	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	35.521	36.706	37.446	22.240	131.913	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 17 / 002-20 Electronic Support Measures																
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 002-20 Electronic Support Measures																															
Manufacturer Information																															
Manufacturer Name: TBD										Manufacturer Location: Mod Team																					
Administrative Leadtime (<i>in Months</i>): 6										Production Leadtime (<i>in Months</i>): 10																					
Dates		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023																	
Contract Dates										Mar 2021		Mar 2022		Mar 2023																	
Delivery Dates										Jan 2022		Jan 2023		Jan 2024																	
Manufacturer Name: Not Specified.										Manufacturer Location: Not Specified..																					
Administrative Leadtime (<i>in Months</i>): 0										Production Leadtime (<i>in Months</i>): 0																					
Dates		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023																	
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: Electronic Support Measures																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.445	- / -	0 / 0.000	12 / 0.445																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.454	0 / 0.000	12 / 0.454																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.500	12 / 0.500																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.551	12 / 0.551																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.445	12 / 0.454	24 / 1.051	48 / 1.950																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	-	4	4	4	24	48
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	-	4	4	4	24	48

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 17 / 002-20 Electronic Support Measures
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 002-20 Electronic Support Measures		
Installation Information		
Method of Implementation (Organic): Electronic Support Measures - Not Installed		Installation Quantity: 48

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 18 / 03-20 Advanced Radar Processor		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	11.685	0.000	11.685	13.840	50.727	56.059	51.345	26.000	209.656
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	11.685	0.000	11.685	13.840	50.727	56.059	51.345	26.000	209.656
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	11.685	0.000	11.685	13.840	50.727	56.059	51.345	26.000	209.656
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: E-2D Advanced Radar Processor (ARP) is an essential upgrade to the E-2D APY-9 Radar system that improves the radar processing capability six fold, reduces production costs, addresses obsolescence, reduces future support costs and enables future growth by reducing the number of Subsystem Replaceable Assembly's in the processors. ARP is required to support the transition of current Science & Technology investments in Naval Integrated Fire Control-Counter Air (NIFC-CA) (Increment 3), Counter Electronic Attack and Sensor Netting. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Procurement of retrofit kits will begin in FY19.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 18 / 03-20 Advanced Radar Processor					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancement				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 03-20 Advanced Radar Processor													
B Kits													
Recurring													
2.1.1) ARP B-kit - NonOrganic	- / -	- / -	- / -	2 / 7.800	- / -	2 / 7.800	2 / 7.956	11 / 43.758	12 / 48.691	8 / 43.798	3 / 12.664	38 / 164.667	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 7.800	- / -	- / 7.800	- / 7.956	- / 43.758	- / 48.691	- / 43.798	- / 12.664	- / 164.667	
Subtotal: 03-20 Advanced Radar Processor	- / -	- / -	- / -	2 / 7.800	- / -	2 / 7.800	2 / 7.956	11 / 43.758	12 / 48.691	8 / 43.798	3 / 12.664	38 / 164.667	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 7.800	- / -	- / 7.800	- / 7.956	- / 43.758	- / 48.691	- / 43.798	- / 12.664	- / 164.667	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / 0.275	- / -	- / 0.275	- / 0.280	- / 2.110	- / 2.372	- / 2.419	- / -	- / 7.456	
3.2) ILS	- / -	- / -	- / -	- / 1.500	- / -	- / 1.500	- / 1.530	- / 1.560	- / 1.591	- / 1.623	- / 4.036	- / 11.840	
3.4) Support Equipment	- / -	- / -	- / -	- / 0.237	- / -	- / 0.237	- / 1.020	- / 1.040	- / 1.061	- / 1.082	- / 5.204	- / 9.644	
3.5) Other Support	- / -	- / -	- / -	- / 1.873	- / -	- / 1.873	- / 1.857	- / 1.949	- / 1.988	- / 2.027	- / 3.726	- / 13.420	
Subtotal: Support	- / 0.000	- / -	- / -	- / 3.885	- / -	- / 3.885	- / 4.687	- / 6.659	- / 7.012	- / 7.151	- / 12.966	- / 42.360	
Installation													
Modification Item 1 of 1: 03-20 Advanced Radar Processor	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.062	- / 0.063	- / 0.356	- / 0.396	- / 0.370	- / 1.247	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.062	- / 0.063	- / 0.356	- / 0.396	- / 0.370	- / 1.247	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	11.685	0.000	11.685	13.840	50.727	56.059	51.345	26.000	209.656	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 18 / 03-20 Advanced Radar Processor																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 03-20 Advanced Radar Processor																															
Manufacturer Information																															
Manufacturer Name: TBD										Manufacturer Location: Field Mod Team																					
Administrative Leadtime (in Months): 3										Production Leadtime (in Months): 12																					
Dates	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Contract Dates									Jan 2019				Jan 2020				Jan 2021				Jan 2022				Jan 2023						
Delivery Dates									Jan 2020				Jan 2021				Jan 2022				Jan 2023				Jan 2023						
Installation Information																															
Method of Implementation: Field Modification Team:: Installation Name: ARP B-kit																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.062	- / -	- / -	- / -	0 / 0.000	2 / 0.062																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.063	- / -	- / -	0 / 0.000	2 / 0.063																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.356	- / -	0 / 0.000	11 / 0.356																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.396	0 / 0.000	12 / 0.396																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.269	8 / 0.269																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.101	3 / 0.101																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.062	2 / 0.063	11 / 0.356	12 / 0.396	11 / 0.370	38 / 1.247																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	1	-	-	3	4	4	-	4	4	4	11	38
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	1	-	-	3	4	4	-	4	4	4	11	38

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 19 / 01-22 Test Asset Viability

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.514	29.536	43.275	1.801	79.126
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.514	29.536	43.275	1.801	79.126
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.514	29.536	43.275	1.801	79.126
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Test Asset Viability modifies two E-2D aircraft and the E-2 Systems Test and Evaluation Lab (ESTEL) with updated mission system components. This will provide production representative aircraft and laboratory along with mission system supportability and mandated anti-tamper requirements. This modification is essential to NIFC-CA and the fleet readiness of the E-2D.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 19 / 01-22 Test Asset Viability				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 01-22 Test Asset Viability													
A Kits													
Recurring													
1.1.1) Test Asset Viability A-kit - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.707	- / -	- / -	1 / 7.707	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.707	- / -	- / 0.000	- / 7.707	
Non-Recurring													
1.2.1) Non-Recurring - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.431	- / -	- / -	- / -	- / 1.431	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.431	- / -	- / -	- / 0.000	- / 1.431	
B Kits													
Recurring													
2.1.1) Test Asset Viability B-kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 18.704	2 / 38.769	- / -	3 / 57.473	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.704	- / 38.769	- / 0.000	- / 57.473	
<i>Subtotal: 01-22 Test Asset Viability</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.431	2 / 26.411	2 / 38.769	- / -	4 / 66.611	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.431	- / 26.411	- / 38.769	- / 0.000	- / 66.611	
Installation													
<i>Modification Item 1 of 1:</i> 01-22 Test Asset Viability	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.132	- / 0.134	- / 0.266	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.132	- / 0.134	- / 0.266	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.514	29.536	43.275	1.801	79.126	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series										Modification Number / Title: 19 / 01-22 Test Asset Viability																
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 01-22 Test Asset Viability																															
Manufacturer Information																															
Manufacturer Name: TBD												Manufacturer Location: Field Mod Team																			
Administrative Leadtime (in Months): 6												Production Leadtime (in Months): 12																			
Dates	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Contract Dates																					Mar 2022		Mar 2023								
Delivery Dates																					Mar 2023		Mar 2024								
Manufacturer Name: TBD												Manufacturer Location: TBD																			
Administrative Leadtime (in Months): 0												Production Leadtime (in Months): 0																			
Dates	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: Test Asset Viability B-kit																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.132	0 / 0.000	1 / 0.132																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.134	2 / 0.134																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.132	2 / 0.134	3 / 0.266																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	3
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	3

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 19 / 01-22 Test Asset Viability
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 01-22 Test Asset Viability		
Installation Information		
Method of Implementation (Organic): Test Asset Viability A-kit - Not Installed		Installation Quantity: 1

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 20 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,308.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,308.130
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,308.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,308.130
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,308.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,308.130
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 20 / Inactive OSIPs			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
A Kits													
Recurring													
1.1.1) INACTIVE OSIPS - Organic	- / 1,308.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,308.130	
<i>Subtotal: Recurring</i>	- / 1,308.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1,308.130	
<i>Subtotal: Inactive OSIPs</i>	- / 1,308.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,308.130	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1,308.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1,308.130	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	1,308.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,308.130	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 20 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0549 / Trainer Acft Series

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	222.531	11.271	8.184	11.660	0.000	11.660	5.330	25.809	26.321	26.825	-	337.931
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	222.531	11.271	8.184	11.660	0.000	11.660	5.330	25.809	26.321	26.825	-	337.931
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	222.531	11.271	8.184	11.660	0.000	11.660	5.330	25.809	26.321	26.825	-	337.931
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to a group of trainer aircraft systems which includes the T-44 and TH-57.

The T-44 is a twin-engine, multi-seat turboprop aircraft produced by Hawker Beech Aircraft and is utilized to provide training for simulated operation of multi-engine training. Specifically, this aircraft provides pipeline training for the P-3, P-8, EP-3, KC-130, E-6, E-2, C-2, and MV-22. Current (FY 2017) Navy inventory is 54 aircraft with service life thru 2025 with possible multiyear extensions.

The overall goal of modifications for T-44 is to modify and/or upgrade aircraft avionics and associated sub-systems to include upgrades to avionic systems for Federal Aviation Administration (FAA) compliance. Efforts also include, Avionics modifications to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Source (DMSMS) requirements. Modifications, particularly to avionic systems, may also be driven by new Cyber Security requirements.

The TH-57 is a single engine, multi-seat rotary wing aircraft utilized to provide rotary wing training. Current (FY 2017) Navy TH-57 inventory is 115 aircraft with no documented service life remaining. The airframe and dynamic components can be sustained indefinitely (although at higher costs as time goes on).

The overall goal of modifications for TH-57 is implement safety updates as well as required upgrades to avionic systems for FAA compliance. Efforts also include, modifications to airframe, avionics, and sub-systems, necessary to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Source (DMSMS) requirements. Modifications, particularly to avionic systems, may also be driven by new Cyber Security requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0549 / Trainer Acft Series				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE (Safety)				- / 121.803	- / 2.504	- / 1.798	- / 1.551	- / 0.000	- / 1.551
P-3a	2 / OSIP 006-07 TH-57 SAFETY UPGRADE (Conversion/Safety)				- / 49.554	- / 8.767	- / 6.386	- / 10.109	- / 0.000	- / 10.109
P-3a	3 / Inactive OSIPs (TBD)				- / 51.174	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 222.531	- / 11.271	- / 8.184	- / 11.660	- / 0.000	- / 11.660
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE (Safety)				- / 0.352	- / 1.591	- / 1.533	- / 1.565	- / 0.000	- / 132.697
P-3a	2 / OSIP 006-07 TH-57 SAFETY UPGRADE (Conversion/Safety)				- / 4.978	- / 24.218	- / 24.788	- / 25.260	- / 0.000	- / 154.060
P-3a	3 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 51.174
P-40	Total Gross/Weapon System Cost				- / 5.330	- / 25.809	- / 26.321	- / 26.825	- / -	- / 337.931
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
 This submission incorporates corresponding schedule updates throughout the Future Years Defense Program modification efforts with a focus on maintaining ADS-B(Out) procurement and installation schedules to meet 1 January 2020 Federal Aviation Administration compliance deadline for ADS-B(Out).

The FY 2019 funding request was reduced by \$0.275M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	121.803	2.504	1.798	1.551	0.000	1.551	0.352	1.591	1.533	1.565	0.000	132.697
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	121.803	2.504	1.798	1.551	0.000	1.551	0.352	1.591	1.533	1.565	0.000	132.697
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	121.803	2.504	1.798	1.551	0.000	1.551	0.352	1.591	1.533	1.565	0.000	132.697
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety Improvement Program (OSIP) funds modifications to T-44 aircraft to provide required Avionics upgrades and address Avionics obsolescence. This OSIP includes efforts that address, avionics and supporting sub-system modifications and/or upgrades to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Source (DMSMS) requirements. Modifications may also be driven by new cyber security requirements. This OSIP also funds upgrades to avionic systems necessary for compliance with Federal Aviation Administration (FAA) 28 May 2010 release DoT/FAA, 14 CFR Part 91: Automated Dependent Surveillance Broadcast (ADS-B) Out performance requirements to support Air Traffic Control (ATC) service final rule. This mandate stipulates that all aircraft required to have unrestricted access to operate in Classes A, B and C airspace; certain Class E airspace, and other specified airspace requiring ADS-B Out, must be in compliance with this regulation by January 1, 2020. Current Engineering Change Proposals (ECPs) include: ADS-B Out; Avionics Cooling; and Avionics Obsolescence/DMSMS. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continue incorporation of engineering change proposals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0549 / Trainer Acft Series				Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-44 T-44				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 2: Installation Kits													
A Kits													
Recurring													
1.1.1) ADS-B Out - NonOrganic 7 / 0.040 21 / 0.185 12 / 0.120 12 / 0.120 - / - 12 / 0.120 2 / 0.028 - / - - / - - / - - / - 54 / 0.493													
1.1.2) Archived A-Kit ECPs - Organic 54 / 33.367 - / - - / - - / - - / - - / - - / - - / - - / - 54 / 33.367													
Subtotal: Recurring - / 33.407 - / 0.185 - / 0.120 - / 0.120 - / - - / 0.120 - / 0.028 - / - - / - - / - - / 0.000 - / 33.860													
Non-Recurring													
1.2.1) Installation Kits Non-recurring - Organic 3 / 5.641 - / - - / - - / - - / - - / - - / - - / - - / - 3 / 5.641													
Subtotal: Non-Recurring - / 5.641 - / - - / - - / - - / - - / - - / - - / - - / 0.000 - / 5.641													
Subtotal: Installation Kits 64 / 39.048 21 / 0.185 12 / 0.120 12 / 0.120 - / - 12 / 0.120 2 / 0.028 - / - - / - - / - - / - 111 / 39.501													
Modification Item 2 of 2: Installation Equipment													
B Kits													
Recurring													
2.1.1) ADS-B OUT - Organic 7 / 0.360 21 / 1.010 12 / 0.633 12 / 0.658 - / - 12 / 0.658 2 / 0.147 - / - - / - - / - - / - 54 / 2.808													
2.1.2) Avionics Cooling Non-Organic - NonOrganic (1) 2 / 0.042 5 / 0.035 5 / 0.036 5 / 0.036 - / - 5 / 0.036 - / - - / - - / - - / - 17 / 0.149													
2.1.3) Avionics Cooling Organic - Organic - / - 14 / 0.124 11 / 0.078 11 / 0.081 - / - 11 / 0.081 - / - - / - - / - - / - 36 / 0.283													
2.1.4) Avionics Obsolescence/DMSMS ECPs - Organic - / - - / - - / - - / - - / - - / - 54 / 0.763 - / - - / - 54 / 0.763													
2.1.5) Archived B-Kit ECPs - Organic - / 53.839 - / - - / - - / - - / - - / - - / - - / - - / 53.839													
Subtotal: Recurring - / 54.241 - / 1.169 - / 0.747 - / 0.775 - / - - / 0.775 - / 0.147 - / - - / 0.763 - / - - / 0.000 - / 57.842													
Non-Recurring													
2.2.1) Avionics Obsolescence/DMSMS ECPs NRE - Organic (2) - / - - / - - / - - / - - / - - / - - / 1.488 - / 0.666 - / 1.359 - / - - / 3.513													
2.2.2) ADS-B OUT NRE - Organic - / 0.833 - / - - / - - / - - / - - / - - / - - / - - / - - / 0.833													
Subtotal: Non-Recurring - / 0.833 - / - - / - - / - - / - - / - - / 1.488 - / 0.666 - / 1.359 - / 0.000 - / 4.346													
Subtotal: Installation Equipment 9 / 55.074 40 / 1.169 28 / 0.747 28 / 0.775 - / - 28 / 0.775 2 / 0.147 - / 1.488 54 / 1.429 - / 1.359 - / - 161 / 62.188													
Subtotal: Procurement, All Modification Items - / 94.122 - / 1.354 - / 0.867 - / 0.895 - / - - / 0.895 - / 0.175 - / 1.488 - / 1.429 - / 1.359 - / 0.000 - / 101.689													
Support (All Modification Items)													
3.2) DATA - Publications - / 0.392 - / - - / - - / - - / - - / - - / - - / - - / 0.392													
3.3) Training Equipment 14 / 22.707 - / - - / - - / - - / - - / - - / - - / - - / 14 / 22.707													
3.5) Other Support - / 4.580 - / 0.876 - / 0.423 - / 0.390 - / - - / 0.390 - / 0.091 - / 0.103 - / 0.104 - / 0.206 - / - - / 6.773													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0549 / Trainer Acft Series						Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBsolescence			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: T-44 T-44				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Support</i>	- / 27.679	- / 0.876	- / 0.423	- / 0.390	- / -	- / 0.390	- / 0.091	- / 0.103	- / 0.104	- / 0.206	- / 0.000	- / 29.872	
Installation													
<i>Modification Item 1 of 2:</i> Installation Kits	- / 0.000	- / 0.263	- / 0.500	- / 0.258	- / 0.000	- / 0.258	- / 0.086	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1.107	
<i>Modification Item 2 of 2:</i> Installation Equipment	- / 0.002	- / 0.011	- / 0.008	- / 0.008	- / 0.000	- / 0.008	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.029	
<i>Subtotal: Installation</i>	- / 0.002	- / 0.274	- / 0.508	- / 0.266	- / -	- / 0.266	- / 0.086	- / -	- / -	- / -	- / 0.000	- / 1.136	
Total													
Total Cost (Procurement + Support + Installation)	121.803	2.504	1.798	1.551	0.000	1.551	0.352	1.591	1.533	1.565	0.000	132.697	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0549 / Trainer Acft Series										Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 2: Installation Kits																															
Manufacturer Information																															
Manufacturer Name: Dyncorp International ADS-B Out															Manufacturer Location: Corpus Christi, TX - ADS-B Out																
Administrative Leadtime (in Months): 4															Production Leadtime (in Months): 3																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Jul 2017				Jun 2018				Jan 2019				Jan 2020																	
Delivery Dates		Oct 2017				Oct 2018				Apr 2019				Apr 2020																	
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: ADS-B Out																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		7 / 0.263		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		7 / 0.263							
FY 2017		- / -		- / -		21 / 0.500		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		21 / 0.500							
FY 2018		- / -		- / -		- / -		12 / 0.128		0 / 0.000		12 / 0.128		- / -		- / -		- / -		- / -		0 / 0.000		12 / 0.128							
FY 2019		- / -		- / -		- / -		12 / 0.130		0 / 0.000		12 / 0.130		- / -		- / -		- / -		- / -		0 / 0.000		12 / 0.130							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		2 / 0.086		- / -		- / -		- / -		0 / 0.000		2 / 0.086							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		7 / 0.263		21 / 0.500		24 / 0.258		0 / 0.000		24 / 0.258		2 / 0.086		- / -		- / -		- / -		0 / 0.000		54 / 1.107							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	4	3	5	5	5	6	6	6	6	6	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Out	-	-	-	-	4	3	5	5	5	6	6	6	6	6	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Method of Implementation (Organic): Archived A-Kit ECPs																														Installation Quantity: 54	
Method of Implementation (Organic): Installation Kits Non-recurring - Not Installed																														Installation Quantity: 3	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0549 / Trainer Acft Series										Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE													
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																		
Modification Item 2 of 2: Installation Equipment																																	
Manufacturer Information																																	
Manufacturer Name: Dyncorp International - Avionics Cooling															Manufacturer Location: TBD																		
Administrative Leadtime (in Months): 0															Production Leadtime (in Months): 1																		
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023							
Contract Dates		Oct 2016				Oct 2017				Oct 2018																							
Delivery Dates		Nov 2016				Nov 2017				Nov 2018																							
Installation Information																																	
Method of Implementation: Contractor Field Mod Team:: Installation Name: Avionics Cooling Non-Organic																																	
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total									
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)									
Prior Years		2 / 0.002		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		2 / 0.002									
FY 2017		- / -		5 / 0.011		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		5 / 0.011									
FY 2018		- / -		- / -		5 / 0.008		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		5 / 0.008									
FY 2019		- / -		- / -		- / -		5 / 0.008		0 / 0.000		5 / 0.008		- / -		- / -		- / -		- / -		0 / 0.000		5 / 0.008									
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -									
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -									
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -									
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -									
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -									
Total		2 / 0.002		5 / 0.011		5 / 0.008		5 / 0.008		0 / 0.000		5 / 0.008		- / -		- / -		- / -		- / -		- / -		0 / 0.000		17 / 0.029							
Installation Schedule																																	
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	2	1	1	2	1	1	1	2	1	1	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17		
Out	2	1	1	2	1	1	1	2	1	1	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17		
Method of Implementation (Organic): ADS-B OUT																														Installation Quantity: 54			
Method of Implementation (Organic): Avionics Cooling Organic																														Installation Quantity: 36			

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 2 of 2: Installation Equipment		
Installation Information		
Method of Implementation (Organic): Avionics Obsolescence/DMSMS ECPs		Installation Quantity: 54
Footnotes: (1) 2.1.2) Avionics Cooling Non-Organic: The A to C conversion has changed the avionics from Analog to Digital in the aircraft. The Digital avionics require cooling and this modification is necessary to address refrigerant obsolescence of the air conditioning system that supports cooling of those avionics. This cost element represents kits that will be field level installed via contractor field mod team. (2) 2.2.1) Avionics Obsolescence/DMSMS ECPs NRE: This cost element supports the NRE for FY21-23, funding various avionics ECPs and obsolescence issues resulting from an aging aircraft.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	49.554	8.767	6.386	10.109	0.000	10.109	4.978	24.218	24.788	25.260	0.000	154.060
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	49.554	8.767	6.386	10.109	0.000	10.109	4.978	24.218	24.788	25.260	0.000	154.060
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	49.554	8.767	6.386	10.109	0.000	10.109	4.978	24.218	24.788	25.260	0.000	154.060
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety Improvement Program (OSIP) funds modifications to TH-57 aircraft to implement safety updates as well as required upgrades to avionics systems for Federal Aviation Administration (FAA) compliance. This OSIP includes efforts that address modifications to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Source (DMSMS) requirements. Modifications include Airframe, sub-systems, and avionics systems. Modifications, particularly to avionics systems, may also be driven by new cyber security requirements. This OSIP also funds upgrades to avionics systems necessary for compliance with FAA 28 May 2010 release DoT/FAA, 14 CFR Part 91: Automated Dependent Surveillance Broadcast (ADS-B) Out performance requirements to support Air Traffic Control (ATC) service final rule. This mandate stipulates that all aircraft required to have unrestricted access to operate in Classes A, B, and C airspace; certain Class E airspace, and other specified airspace requiring ADS-B Out, must be in compliance with this regulation by January 1, 2020. Current Engineering Change Proposals (ECPs) include, but are not limited to: ADS-B Out; TACAN+R-NAV Replacement; KAPTON Wiring Replacement; Cockpit Camera Mounts; and Avionics Obsolescence. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continue incorporation of engineering change proposals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0549 / Trainer Acft Series				Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: TH-57B/C				Modification Type: Conversion/Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE													
A Kits													
Recurring													
1.1.1) ADS-B Out/VHF-Radio - NonOrganic	30 / 0.707	18 / 0.424	30 / 1.440	32 / 1.653	- / -	32 / 1.653	- / -	- / -	- / -	- / -	- / -	110 / 4.224	
1.1.2) TACAN + R-NAV Replacement - NonOrganic	- / -	- / -	5 / 0.164	27 / 1.067	- / -	27 / 1.067	22 / 0.814	22 / 0.924	22 / 0.952	- / -	- / -	98 / 3.921	
1.1.3) KAPTON Wiring Replacement - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.400	24 / 2.400	- / -	- / -	48 / 4.800	
1.1.4) Cockpit Camera Mounts - NonOrganic ⁽³⁾	126 / 0.119	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	126 / 0.119	
Subtotal: Recurring	- / 0.826	- / 0.424	- / 1.604	- / 2.720	- / -	- / 2.720	- / 0.814	- / 3.324	- / 3.352	- / -	- / 0.000	- / 13.064	
Non-Recurring													
1.2.1) Installation Kits Non-recurring - Organic	8 / 3.556	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.556	
1.2.2) ADS-B Out Val/Ver - Organic	4 / 1.230	- / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.251	
1.2.3) Kapton Wiring Replacement NRE - Organic ⁽⁴⁾	- / 0.500	- / -	- / -	- / -	- / -	- / -	2 / 0.209	- / -	- / -	- / -	- / -	2 / 0.709	
Subtotal: Non-Recurring	- / 5.286	- / 0.021	- / -	- / -	- / -	- / -	- / 0.209	- / -	- / -	- / -	- / 0.000	- / 5.516	
B Kits													
Recurring													
2.1.1) ADS-B Out/VHF Radio - Organic	36 / 1.150	12 / 0.466	30 / 2.280	32 / 1.969	- / -	32 / 1.969	- / -	- / -	- / -	- / -	- / -	110 / 5.865	
2.1.2) NVG Cockpit - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 10.000	- / -	- / -	- / -	50 / 10.000	
2.1.3) TACAN + R-NAV Replacement - Organic ⁽⁵⁾	- / -	- / -	5 / 0.246	27 / 1.496	- / -	27 / 1.496	22 / 0.997	22 / 0.915	22 / 0.944	- / -	- / -	98 / 4.598	
2.1.4) Avionics Obsolescence (B kits) - Organic	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	22 / 6.042	55 / 16.213	45 / 22.014	- / -	122 / 44.289	
2.1.5) Archived ECP B-kits - Organic	- / 2.682	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.682	
Subtotal: Recurring	- / 3.852	- / 0.466	- / 2.526	- / 3.465	- / -	- / 3.465	- / 0.997	- / 16.957	- / 17.157	- / 22.014	- / 0.000	- / 67.434	
Non-Recurring													
2.2.1) ADS-B Out/VHF-Radio NRE - Organic	- / -	- / 2.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.303	
Subtotal: Non-Recurring	- / 0.000	- / 2.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.303	
Subtotal: OSIP 006-07 TH-57 SAFETY UPGRADE	204 / 9.964	30 / 3.214	70 / 4.130	118 / 6.185	- / -	118 / 6.185	46 / 2.020	140 / 20.281	123 / 20.509	45 / 22.014	- / -	776 / 88.317	
Subtotal: Procurement, All Modification Items	- / 9.964	- / 3.214	- / 4.130	- / 6.185	- / -	- / 6.185	- / 2.020	- / 20.281	- / 20.509	- / 22.014	- / 0.000	- / 88.317	
Support (All Modification Items)													
3.1) DATA - Publications ⁽⁶⁾	- / 0.031	- / -	- / 0.276	- / 0.831	- / -	- / 0.831	- / -	- / -	- / -	- / -	- / -	- / 1.138	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: TH-57B/C				Modification Type: Conversion/Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
3.2) Training Equipment - Trainer OFT	- / 15.477	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.477	
3.4) Other Support ⁽⁷⁾	- / 24.082	- / 5.503	- / 1.405	- / 2.536	- / -	- / 2.536	- / 1.745	- / 2.163	- / 2.776	- / 2.832	- / -	- / 43.042	
<i>Subtotal: Support</i>	- / 39.590	- / 5.503	- / 1.681	- / 3.367	- / -	- / 3.367	- / 1.745	- / 2.163	- / 2.776	- / 2.832	- / 0.000	- / 59.657	
Installation													
<i>Modification Item 1 of 1:</i> OSIP 006-07 TH-57 SAFETY UPGRADE	- / 0.000	- / 0.050	- / 0.575	- / 0.557	- / 0.000	- / 0.557	- / 1.213	- / 1.774	- / 1.503	- / 0.414	- / 0.000	- / 6.086	
<i>Subtotal: Installation</i>	- / 0.000	- / 0.050	- / 0.575	- / 0.557	- / -	- / 0.557	- / 1.213	- / 1.774	- / 1.503	- / 0.414	- / 0.000	- / 6.086	
Total													
Total Cost (Procurement + Support + Installation)	49.554	8.767	6.386	10.109	0.000	10.109	4.978	24.218	24.788	25.260	0.000	154.060	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0549 / Trainer Acft Series										Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE																																							
Manufacturer Information																																							
Manufacturer Name: Various ⁽⁸⁾															Manufacturer Location: Various																								
Administrative Leadtime (in Months): 0															Production Leadtime (in Months): 0																								
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023													
Contract Dates																																							
Delivery Dates																																							
Installation Information																																							
Method of Implementation: Contractor Logistics Support Provider:: Installation Name: OSIP 006-07 TH-57 SAFETY UPGRADE																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																										
Prior Years		- / -	126 / 0.050	30 / 0.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	156 / 0.364																										
FY 2017		- / -	- / -	18 / 0.181	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.181																										
FY 2018		- / -	- / -	5 / 0.080	30 / 0.358	0 / 0.000	30 / 0.358	- / -	- / -	- / -	- / -	0 / 0.000	35 / 0.438																										
FY 2019		- / -	- / -	- / -	27 / 0.199	0 / 0.000	27 / 0.199	32 / 0.353	- / -	- / -	- / -	0 / 0.000	59 / 0.552																										
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.860	- / -	- / -	- / -	0 / 0.000	22 / 0.860																										
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 1.774	- / -	- / -	0 / 0.000	46 / 1.774																										
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.503	22 / 0.414	0 / 0.000	46 / 1.917																										
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
Total		- / -	126 / 0.050	53 / 0.575	57 / 0.557	0 / 0.000	57 / 0.557	54 / 1.213	46 / 1.774	24 / 1.503	22 / 0.414	0 / 0.000	382 / 6.086																										
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	31	31	32	32	12	14	15	12	14	15	14	14	8	15	15	16	12	12	12	10	6	6	6	6	6	6	6	4	-	382								
Out	-	31	31	32	32	12	14	15	12	14	15	14	14	8	15	15	16	6	12	12	10	6	6	6	6	6	6	6	4	6	382								
Method of Implementation (Organic): Installation Kits Non-recurring																														Installation Quantity: 8									
Method of Implementation (Organic): ADS-B Out Val/Ver - Not Installed																														Installation Quantity: 4									

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE		
Installation Information		
Method of Implementation (Organic): Kapton Wiring Replacement NRE - Not Installed		Installation Quantity: 2
Method of Implementation (Organic): ADS-B Out/VHF Radio		Installation Quantity: 110
Method of Implementation (Organic): NVG Cockpit		Installation Quantity: 50
Method of Implementation (Organic): TACAN + R-NAV Replacement		Installation Quantity: 98
Method of Implementation (Organic): Avionics Obsolescence (B kits)		Installation Quantity: 122
Footnotes: ⁽³⁾ 1.1.4) Cockpit Camera Mounts: This cost element represents safety modification that will add cockpit camera mounts to allow recording of flights for safety and training purposes. ⁽⁴⁾ 1.2.3) KAPTON Wiring Replacement NRE: This cost element provides non-recurring engineering funding for replacement of KAPTON wiring. Existing KAPTON wiring in aircraft is beginning to show increased wear, which will require full replacement and retrofit into aircraft rather than repair. ⁽⁵⁾ 2.1.3) TACAN + R-NAV Replacement: This cost-element was added to break-out TACAN+R-NAV Replacement B-kit costs. ⁽⁶⁾ (3.1) DATA Publications: This cost element funds FY19 publications for multiple ECP products to include the TACAN pubs procurement ⁽⁷⁾ (3.4) Other Support: This cost element funds the Other Support; in FY19 increases to support the procurement of TACAN kits which is a complex ECP, and the increase in FY21 supports the increased procurements for various products such as KAPTON Wiring and NVG Cockpit. ⁽⁸⁾ Installation Modification Item 1 of 1: Items that make up this installation group have various manufacturer as well as various Administrative Leadtime and Production Leadtime. All installations are made by the TH-57 Contractor Logistics Support Provider.		

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[illegible]

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0549 / Trainer Acft Series						Modification Number / Title: 3 / Inactive OSIPs			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
A Kits													
Recurring													
1.1.1) Inactive OSIPs - Organic	- / 51.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.174	
<i>Subtotal: Recurring</i>	- / 51.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 51.174	
<i>Subtotal: Inactive OSIPs</i>	- / 51.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.174	
<i>Subtotal: Procurement, All Modification Items</i>	- / 51.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 51.174	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	51.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.174	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 3 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0556 / C-2A					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	465.466	18.971	18.673	11.327	0.000	11.327	20.826	17.538	0.000	0.000	7.263	560.064
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	465.466	18.971	18.673	11.327	0.000	11.327	20.826	17.538	0.000	0.000	7.263	560.064
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	465.466	18.971	18.673	11.327	0.000	11.327	20.826	17.538	0.000	0.000	7.263	560.064
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-2A(R) Greyhound is a high wing monoplane, twin engine turbo-prop aircraft capable of operating from both a shore base and all operational United States Navy aircraft carrier classes. The mission of the C-2A(R) is to provide rapid response Carrier Onboard Delivery of fleet essential supplies, repair parts, and personnel to sustain at sea operations of deployed battle groups. In addition, the C-2A(R) provides airdrop delivery and mobilization support for special operations forces from land bases and carriers. The design service life of the C-2A(R) was 10,000 flight hours with 15,000 landings. The goal of the Critical Components Operational Safety Improvement Program (11-07) is to continue procurement efforts for the multiple modifications. Critical Components are composed of Communication Avionics and Radio Upgrades, Engine Power & Propulsion, Ejector valve, and Transducer Engineering Change Proposals. The C-2 Critical Brake Upgrade Operational Safety Improvement Program (04-16) provides funding for air vehicle modifications to improve operational ground controllability of C-2A aircraft. The Structural Enhancement Operational Safety Improvement Program (14-17) is to target improvement to structural integrity. These improvements are a vital requirement for C-2 to maintain the aircraft in the Fleet. The modification to the wing center section is to prevent structural cracks due to fatigue. There is a total number of 35 C-2A aircraft.

Funding was added to the "Cost To Complete" amounts. Funding is required to complete the Critical Components (OSIP 11-07) and the Structural Enhancement (OSIP 14-17) programs.

FY19 Support and Installation funding is required to support additional Critical Brake and Wing Center Section Kits procured with prior year funds.

The FY 2019 funding request was reduced by \$7.788 million to account for the availability of prior year execution balances.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy	Date: February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0556 / C-2A

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 011-07 Critical Components (Mission Performance Enhancements)				- / 16.717	- / 5.935	- / 2.245	- / 3.605	- / 0.000	- / 3.605
P-3a	2 / 004-16 C-2 Critical Brake Upgrade (Mission Performance Enhancements)				- / 4.813	- / 5.020	- / 5.213	- / 3.394	- / 0.000	- / 3.394
P-3a	3 / 014-17 Structural Enhancements (Mission Performance Enhancements)				- / 0.000	- / 8.016	- / 11.215	- / 4.328	- / 0.000	- / 4.328
P-3a	4 / Inactive OSIPS (TBD)				- / 443.936	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 465.466	- / 18.971	- / 18.673	- / 11.327	- / 0.000	- / 11.327

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 011-07 Critical Components (Mission Performance Enhancements)				- / 7.240	- / 6.657	- / 0.000	- / 0.000	- / 2.761	- / 45.160
P-3a	2 / 004-16 C-2 Critical Brake Upgrade (Mission Performance Enhancements)				- / 6.098	- / 3.048	- / 0.000	- / 0.000	- / 0.000	- / 27.586
P-3a	3 / 014-17 Structural Enhancements (Mission Performance Enhancements)				- / 7.488	- / 7.833	- / 0.000	- / 0.000	- / 4.502	- / 43.382
P-3a	4 / Inactive OSIPS (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 443.936
P-40	Total Gross/Weapon System Cost				- / 20.826	- / 17.538	- / 0.000	- / 0.000	- / 7.263	- / 560.064

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The Critical Components program will continue through the service life of the airframe. The the C-2 Critical Brake Upgrade Operational Safety Improvement Program began in FY16. The Structural Enhancements modification began in FY17. Basis for FY19 request is to procure the Wing Center Section, Ejector Valves, Arc-210, and Critical Brakes Kits, Installs, and associated program costs.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A				Modification Number / Title: 1 / 011-07 Critical Components			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	16.717	5.935	2.245	3.605	0.000	3.605	7.240	6.657	0.000	0.000	2.761	45.160
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	16.717	5.935	2.245	3.605	0.000	3.605	7.240	6.657	0.000	0.000	2.761	45.160
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	16.717	5.935	2.245	3.605	0.000	3.605	7.240	6.657	0.000	0.000	2.761	45.160
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-2A(R) Service Life Extension Program (SLEP) extended the Navy's Carrier Onboard Delivery capability beyond current projected service life. With a longer air vehicle life, problems with other non-SLEP systems require upgrade/modifications. This Operational Safety and Improvement Program procures a portion of the Critical Components communication avionics, radios, transducers, ejector valves, power and propulsion subsystems.

Basis for FY19 request is to procure the Ejector Valve components and it's associated program support.

FY19 Critical Components funding request was reduced by \$2.665M due to ARC-210 software delays which have slid the kit procurements to begin in FY 2019.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A						Modification Number / Title: 1 / 011-07 Critical Components			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 011-07 Critical Components													
A Kits													
Recurring													
1.1.1) Ejector Valve - Organic	- / -	26 / 1.768	26 / 1.768	13 / 0.884	- / -	13 / 0.884	17 / 1.156	14 / 1.208	- / -	- / -	- / -	96 / 6.784	
1.1.2) Impact Pressure Transducer (IPT) - Organic	36 / 0.900	3 / 0.067	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 0.967	
1.1.3) Intercommunication System (ICS) - Organic	40 / 0.788	100 / 2.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 3.333	
1.1.4) ARC-210 - NonOrganic ⁽¹⁾	- / -	- / -	- / -	3 / 0.871	- / -	3 / 0.871	12 / 3.901	15 / 4.529	- / -	- / -	5 / 0.936	35 / 10.237	
1.1.5) ARCHIVE Modification - Organic	- / 5.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.017	
Subtotal: Recurring	- / 6.705	- / 4.380	- / 1.768	- / 1.755	- / -	- / 1.755	- / 5.057	- / 5.737	- / -	- / -	- / 0.936	- / 26.338	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 2.234	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.234	
Subtotal: Non-Recurring	- / 2.234	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.234	
B Kits													
Recurring													
2.1.1) Installation Equipment - Organic	- / 0.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.470	
Subtotal: Recurring	- / 0.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.470	
Subtotal: 011-07 Critical Components	76 / 9.409	129 / 4.380	26 / 1.768	16 / 1.755	- / -	16 / 1.755	29 / 5.057	29 / 5.737	- / -	- / -	5 / 0.936	310 / 29.042	
Subtotal: Procurement, All Modification Items	- / 9.409	- / 4.380	- / 1.768	- / 1.755	- / -	- / 1.755	- / 5.057	- / 5.737	- / -	- / -	- / 0.936	- / 29.042	
Support (All Modification Items)													
3.1) Data	- / 0.509	- / 0.237	- / -	- / 0.100	- / -	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / 0.946	
3.2) ILS ⁽²⁾	- / 0.452	- / 0.474	- / 0.110	- / 0.426	- / -	- / 0.426	- / 0.435	- / 0.404	- / -	- / -	- / 0.775	- / 3.076	
3.3) Training Equipment	- / 0.163	- / 0.342	- / -	- / 0.500	- / -	- / 0.500	- / 0.685	- / -	- / -	- / -	- / -	- / 1.690	
3.4) Support Equipment	- / 0.007	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.500	- / -	- / -	- / -	- / -	- / 0.907	
3.5) Other Support ⁽³⁾	- / 6.177	- / 0.502	- / 0.367	- / 0.424	- / -	- / 0.424	- / 0.446	- / 0.446	- / -	- / -	- / 0.927	- / 9.289	
Subtotal: Support	- / 7.308	- / 1.555	- / 0.477	- / 1.850	- / -	- / 1.850	- / 2.166	- / 0.850	- / -	- / -	- / 1.702	- / 15.908	
Installation													
Modification Item 1 of 1: 011-07 Critical Components	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.017	- / 0.070	- / 0.000	- / 0.000	- / 0.123	- / 0.210	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.017	- / 0.070	- / -	- / -	- / 0.123	- / 0.210	
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A						Modification Number / Title: 1 / 011-07 Critical Components			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total Cost (Procurement + Support + Installation)	16.717	5.935	2.245	3.605	0.000	3.605	7.240	6.657	0.000	0.000	2.761	45.160	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0556 / C-2A										Modification Number / Title: 1 / 011-07 Critical Components																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: 011-07 Critical Components																																							
Manufacturer Information																																							
Manufacturer Name: Rockwell Collins - ARC-210															Manufacturer Location: New MFG - Loc																								
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 8																								
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023													
Contract Dates										Mar 2019				Mar 2020				Mar 2021																					
Delivery Dates										Nov 2019				Nov 2020				Nov 2021																					
Installation Information																																							
Method of Implementation: Depot Field Mod Team:: Installation Name: ARC-210																																							
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total																
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)																
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -														
FY 2017		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -														
FY 2018		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -														
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		3 / 0.017		- / -		- / -		- / -		- / -		0 / 0.000		3 / 0.017														
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		12 / 0.070		- / -		- / -		- / -		0 / 0.000		12 / 0.070														
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		15 / 0.092		15 / 0.092														
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -														
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -														
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.031		5 / 0.031														
Total		- / -	- / -		- / -		- / -		- / -		- / -		3 / 0.017		12 / 0.070		- / -		- / -		- / -		20 / 0.123		35 / 0.210														
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3	3	3	3	-	-	-	-	-	-	-	-	20	35								
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3	3	3	3	-	-	-	-	-	-	-	-	20	35								
Method of Implementation (Organic): Ejector Valve																														Installation Quantity: 96									
Method of Implementation (Organic): Impact Pressure Transducer (IPT)																														Installation Quantity: 39									

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 1 / 011-07 Critical Components
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 011-07 Critical Components		
Installation Information		
Method of Implementation (Organic): Intercommunication System (ICS)		Installation Quantity: 140

Footnotes:

- (1) FY19 Critical Components funding request was reduced by \$2.665M due to ARC-210 software delays which have slid kit procurements to begin in FY2019 . FY21 kits will be installed in To Complete due to FY22 and FY23 funding being removed.
- (2) FY19 increase in ILS due to additional support required to begin ARC-210 Procurement.
- (3) FY19 increase in Other Support due to support required to begin ARC-210 Procurement.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A				Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4.813	5.020	5.213	3.394	0.000	3.394	6.098	3.048	0.000	0.000	0.000	27.586
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4.813	5.020	5.213	3.394	0.000	3.394	6.098	3.048	0.000	0.000	0.000	27.586
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4.813	5.020	5.213	3.394	0.000	3.394	6.098	3.048	0.000	0.000	0.000	27.586
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-2A(R) Greyhound Critical Brake Upgrade adds an Anti-Skid Brake System (ABS) to the aircraft which helps mitigate directional stability safety issues by enhancing ground controllability for land based runway conditions.

FY19 funds are for Critical Brake Upgrade installs and program support for kits procured with prior year execution balances, and upgrading the critical brake trainer software. FY19 Critical Brake Upgrade funding request was reduced by \$1.347M due to availability of prior year funds. FY16, FY17 and FY18 kit quantities were adjusted accordingly.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review completed 3RD QTR of FY13. Critical Design Review completed 4TH QTR of FY13. Flight Testing began 2ND QTR FY16.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A						Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 004-16 C-2 Critical Brake Upgrade													
A Kits													
Recurring													
1.1.1) Critical Brakes - NonOrganic ⁽⁴⁾	11 / 1.650	7 / 1.071	8 / 1.248	- / -	- / -	- / -	9 / 1.461	- / -	- / -	- / -	- / -	35 / 5.430	
Subtotal: Recurring	- / 1.650	- / 1.071	- / 1.248	- / -	- / -	- / -	- / 1.461	- / -	- / -	- / -	- / 0.000	- / 5.430	
Non-Recurring													
1.2.1) A-Kits N/R - Organic	- / -	- / 1.038	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.038	
Subtotal: Non-Recurring	- / 0.000	- / 1.038	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.038	
B Kits													
Recurring													
2.1.1) Critical Brakes B-kit - Organic	11 / 0.971	7 / 0.630	8 / 0.734	- / -	- / -	- / -	9 / 0.860	- / -	- / -	- / -	- / -	35 / 3.195	
Subtotal: Recurring	- / 0.971	- / 0.630	- / 0.734	- / -	- / -	- / -	- / 0.860	- / -	- / -	- / -	- / 0.000	- / 3.195	
Subtotal: 004-16 C-2 Critical Brake Upgrade	22 / 2.621	14 / 2.739	16 / 1.982	- / -	- / -	- / -	18 / 2.321	- / -	- / -	- / -	- / -	70 / 9.663	
Subtotal: Procurement, All Modification Items	- / 2.621	- / 2.739	- / 1.982	- / -	- / -	- / -	- / 2.321	- / -	- / -	- / -	- / 0.000	- / 9.663	
Support (All Modification Items)													
3.1) Data	- / 0.210	- / 0.214	- / 0.218	- / 0.223	- / -	- / 0.223	- / 0.227	- / -	- / -	- / -	- / -	- / 1.092	
3.2) ILS	- / 0.420	- / 0.488	- / 0.505	- / 0.515	- / -	- / 0.515	- / 0.526	- / 0.484	- / -	- / -	- / -	- / 2.938	
3.3) Training Equipment	- / -	- / -	- / -	- / 0.376	- / -	- / 0.376	- / 0.558	- / -	- / -	- / -	- / -	- / 0.934	
3.4) Support Equipment	- / 0.227	- / 0.231	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.458	
3.5) Other Support	- / 1.335	- / 1.348	- / 1.408	- / 1.566	- / -	- / 1.566	- / 1.634	- / 1.609	- / -	- / -	- / -	- / 8.900	
Subtotal: Support	- / 2.192	- / 2.281	- / 2.131	- / 2.680	- / -	- / 2.680	- / 2.945	- / 2.093	- / -	- / -	- / 0.000	- / 14.322	
Installation													
Modification Item 1 of 1: 004-16 C-2 Critical Brake Upgrade	- / 0.000	- / 0.000	- / 1.100	- / 0.714	- / 0.000	- / 0.714	- / 0.832	- / 0.955	- / 0.000	- / 0.000	- / 0.000	- / 3.601	
Subtotal: Installation	- / 0.000	- / -	- / 1.100	- / 0.714	- / -	- / 0.714	- / 0.832	- / 0.955	- / -	- / -	- / 0.000	- / 3.601	
Total													
Total Cost (Procurement + Support + Installation)	4.813	5.020	5.213	3.394	0.000	3.394	6.098	3.048	0.000	0.000	0.000	27.586	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A										Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade																
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: 004-16 C-2 Critical Brake Upgrade																															
Manufacturer Information																															
Manufacturer Name: Critical Brake Upgrade										Manufacturer Location: Field Mod Team																					
Administrative Leadtime <i>(in Months)</i> : 6										Production Leadtime <i>(in Months)</i> : 6																					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023																								
Contract Dates	Mar 2019	Mar 2020		Mar 2021																											
Delivery Dates	Sep 2019	Sep 2020		Sep 2021																											
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: Critical Brake Upgrade																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	- / -	- / -	11 / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	11 / 1.100																			
FY 2017	- / -	- / -	- / -	7 / 0.714	0 / 0.000	7 / 0.714	- / -	- / -	- / -	- / -	0 / 0.000	7 / 0.714																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.832	- / -	- / -	- / -	0 / 0.000	8 / 0.832																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.955	- / -	- / -	0 / 0.000	9 / 0.955																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	- / -	- / -	11 / 1.100	7 / 0.714	0 / 0.000	7 / 0.714	8 / 0.832	9 / 0.955	- / -	- / -	0 / 0.000	35 / 3.601																			
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	2	3	3	3	1	2	2	2	2	2	2	2	2	2	2	3	-	-	-	-	-	-	35
Out	-	-	-	-	-	-	-	-	2	3	3	3	1	2	2	2	2	2	2	2	2	2	2	3	-	-	-	-	-	-	35
Method of Implementation (Organic): Critical Brakes B-kit																				Installation Quantity: 35											
Footnotes: (4) Critical Brakes A Kits: The FY 2019 funding request was reduced by \$1.347 million to account for the availability of prior year execution balances. FY16, FY17 and FY18 kit quantities were adjusted accordingly. FY19 support and install funding required to support additional kits procured with FY17 funds.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A				Modification Number / Title: 3 / 014-17 Structural Enhancements			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	8.016	11.215	4.328	0.000	4.328	7.488	7.833	0.000	0.000	4.502	43.382
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	8.016	11.215	4.328	0.000	4.328	7.488	7.833	0.000	0.000	4.502	43.382
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	8.016	11.215	4.328	0.000	4.328	7.488	7.833	0.000	0.000	4.502	43.382
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The structural enhancements to the C-2 series aircraft target improvements to structural integrity and support costs. These improvements are a vital requirement for C-2 to maintain the aircraft in the Fleet until the planned sundown. Structural changes to the wing center section will increase survivability, improve maintainability and aircraft availability, eliminate component interferences, improve suitability and correct safety related issues. This effort will take the C-2 Fleet to full service life.

FY19 funding is required for Installs and associated program costs for Wing Center Section Kits procured with prior year execution balances.

The FY 2019 funding request was reduced by \$3.470M due to availability of prior year funds. FY17 & FY18 kit quantities were adjusted accordingly.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A						Modification Number / Title: 3 / 014-17 Structural Enhancements			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: C-2A				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 014-17 Structural Enhancements													
B Kits													
Recurring													
2.1.1) Wing Center Section - NonOrganic ⁽⁵⁾	- / -	9 / 5.252	10 / 5.953	- / -	- / -	- / -	6 / 3.716	5 / 3.158	- / -	- / -	- / -	30 / 18.079	
Subtotal: Recurring	- / 0.000	- / 5.252	- / 5.953	- / -	- / -	- / -	- / 3.716	- / 3.158	- / -	- / -	- / 0.000	- / 18.079	
Non-Recurring													
2.2.1) B Kits N/R - Organic	- / -	- / 0.901	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.901	
Subtotal: Non-Recurring	- / 0.000	- / 0.901	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.901	
Subtotal: 014-17 Structural Enhancements	- / -	9 / 6.153	10 / 5.953	- / -	- / -	- / -	6 / 3.716	5 / 3.158	- / -	- / -	- / -	30 / 18.980	
Subtotal: Procurement, All Modification Items	- / 0.000	- / 6.153	- / 5.953	- / -	- / -	- / -	- / 3.716	- / 3.158	- / -	- / -	- / 0.000	- / 18.980	
Support (All Modification Items)													
3.1) Data	- / -	- / 0.202	- / 0.206	- / 0.210	- / -	- / 0.210	- / 0.214	- / -	- / -	- / -	- / -	- / 0.832	
3.2) ILS	- / -	- / 0.438	- / 0.540	- / 0.625	- / -	- / 0.625	- / 0.666	- / 0.670	- / -	- / -	- / 0.510	- / 3.449	
3.3) Support Equipment	- / -	- / 0.497	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.497	
3.4) Other Support	- / -	- / 0.726	- / 0.741	- / 0.926	- / -	- / 0.926	- / 1.117	- / 0.917	- / -	- / -	- / 1.111	- / 5.538	
Subtotal: Support	- / 0.000	- / 1.863	- / 1.487	- / 1.761	- / -	- / 1.761	- / 1.997	- / 1.587	- / -	- / -	- / 1.621	- / 10.316	
Installation													
Modification Item 1 of 1: 014-17 Structural Enhancements	- / 0.000	- / 0.000	- / 3.775	- / 2.567	- / 0.000	- / 2.567	- / 1.775	- / 3.088	- / 0.000	- / 0.000	- / 2.881	- / 14.086	
Subtotal: Installation	- / 0.000	- / -	- / 3.775	- / 2.567	- / -	- / 2.567	- / 1.775	- / 3.088	- / -	- / -	- / 2.881	- / 14.086	
Total													
Total Cost (Procurement + Support + Installation)	0.000	8.016	11.215	4.328	0.000	4.328	7.488	7.833	0.000	0.000	4.502	43.382	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0556 / C-2A										Modification Number / Title: 3 / 014-17 Structural Enhancements											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 014-17 Structural Enhancements																															
Manufacturer Information																															
Manufacturer Name: Wing Center Section															Manufacturer Location: Field Mod Team																
Administrative Leadtime <i>(in Months)</i> : 2															Production Leadtime <i>(in Months)</i> : 8																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Nov 2017				Nov 2018				Nov 2019				Nov 2020				Nov 2021													
Delivery Dates		Jul 2018				Jul 2019				Jul 2020				Jul 2021				Jul 2022													
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: Wing Center Section																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>		<i>Qty (Each) / Total Cost (\$ M)</i>								
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2017		- / -	- / -		9 / 3.775		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		9 / 3.775						
FY 2018		- / -	- / -		- / -		6 / 2.567		0 / 0.000		6 / 2.567		4 / 1.775		- / -		- / -		- / -		- / -		0 / 0.000		10 / 4.342						
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		6 / 3.088		- / -		- / -		- / -		0 / 0.000		6 / 3.088						
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 2.881		5 / 2.881						
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
Total		- / -	- / -		9 / 3.775		6 / 2.567		0 / 0.000		6 / 2.567		4 / 1.775		6 / 3.088		- / -		- / -		- / -		5 / 2.881		30 / 14.086						
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	3	2	2	2	1	2	2	1	1	1	1	1	2	2	1	1	-	-	-	-	-	5	30
Out	-	-	-	-	-	-	-	-	3	2	2	2	1	2	2	1	1	1	1	1	2	2	1	1	-	-	-	-	-	5	30
Footnotes: ⁽⁵⁾ The FY 2019 funding request was reduced by \$3.470M due to availability of prior year funds. FY17 & FY18 kit quantities were adjusted accordingly. FY21 kit will be installed in To Complete due to FY 22 and FY23 funding being removed. FY18 Funding will be used to procure both FY18 and FY19 Kits. FY18 Kits will award in Nov 2018 and begin to install Jul 2019. FY19 Kits will award Nov 2019 and begin install in FY20.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A						Modification Number / Title: 4 / Inactive OSIPS		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	443.936	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	443.936
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	443.936	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	443.936
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	443.936	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	443.936
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A					Modification Number / Title: 4 / Inactive OSIPS			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> N/A													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
3.1) Inactive OSIPs													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0556 / C-2A			Modification Number / Title: 4 / Inactive OSIPS	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0560 / C-130 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 433												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	610.716	53.667	83.541	79.075	0.000	79.075	130.646	143.223	133.364	134.197	350.746	1,719.175
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	610.716	53.667	83.541	79.075	0.000	79.075	130.646	143.223	133.364	134.197	350.746	1,719.175
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	610.716	53.667	83.541	79.075	0.000	79.075	130.646	143.223	133.364	134.197	350.746	1,719.175
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
DESCRIPTION: This item funds modifications to C/KC-130 aircraft. The Lockheed C/KC-130 aircraft is a four engine, high-wing, all metal, long range, land based monoplane capable of all weather transport of cargo or personnel and in-flight refueling. There are currently 96 aircraft in the Navy and Marine Corps inventory (53 active and 43 reserve). The expected Service Life is as follows:												
T/M/S Service Date Service Life Expected Life												
C-130T 10/91 - 11/95 450 mos. 2028-2032												
KC-130T 04/84 - 02/96 450 mos. 2021-2033												
KC-130J 09/00 - 10/26 450 mos. 2037-2063												
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023		
Navy	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	34.963	63.618	62.890	-	62.890	110.745	121.483	112.435	112.618		
NR	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	18.704	19.923	16.185	-	16.185	19.901	21.740	20.929	21.579		
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	53.667	83.541	79.075	-	79.075	130.646	143.223	133.364	134.197		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0560 / C-130 Series				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 433										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07) (Performance Enhancement)				- / 181.840	- / 13.133	- / 17.997	- / 13.361	- / 0.000	- / 13.361
P-3a	2 / Avionics /Obsolescence Upgrades (OSIP 008-12) (Safety / Readiness)				- / 87.201	- / 18.704	- / 19.923	- / 15.185	- / 0.000	- / 15.185
P-3a	3 / Electronic Counter Measures (OSIP 020-12) (Safety)				- / 82.969	- / 5.949	- / 3.338	- / 6.151	- / 0.000	- / 6.151
P-3a	4 / Technical Insertion (OSIP 019-14) (Safety / Reliability / Obsolescence)				- / 8.323	- / 13.263	- / 35.828	- / 43.592	- / 0.000	- / 43.592
P-3a	5 / Safety/Obsolescence Upgrades (OSIP 015-17) (Safety / Reliability / Obsolescence)				- / 0.000	- / 2.618	- / 6.455	- / 0.786	- / 0.000	- / 0.786
P-3a	6 / Inactive OSIPs (TBD)				- / 250.383	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 610.716	- / 53.667	- / 83.541	- / 79.075	- / 0.000	- / 79.075
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07) (Performance Enhancement)				- / 28.260	- / 36.463	- / 30.122	- / 30.298	- / 99.494	- / 450.968
P-3a	2 / Avionics /Obsolescence Upgrades (OSIP 008-12) (Safety / Readiness)				- / 19.901	- / 21.740	- / 20.929	- / 21.579	- / 88.711	- / 313.873
P-3a	3 / Electronic Counter Measures (OSIP 020-12) (Safety)				- / 7.701	- / 7.804	- / 8.312	- / 8.637	- / 48.522	- / 179.383
P-3a	4 / Technical Insertion (OSIP 019-14) (Safety / Reliability / Obsolescence)				- / 71.922	- / 74.943	- / 72.162	- / 71.777	- / 110.729	- / 502.539
P-3a	5 / Safety/Obsolescence Upgrades (OSIP 015-17) (Safety / Reliability / Obsolescence)				- / 2.862	- / 2.273	- / 1.839	- / 1.906	- / 3.290	- / 22.029
P-3a	6 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 250.383
P-40	Total Gross/Weapon System Cost				- / 130.646	- / 143.223	- / 133.364	- / 134.197	- / 350.746	- / 1,719.175
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: Basis for FY2019 Budget request: Provides funding to procure aircraft modifications to include Weapons Mission Kits, Electronic Countermeasures, Safety and Obsolescence Issues and Communication Navigation Surveillance System (CNS) Air Traffic Management (ATM) requirements such as Block Upgrade 7.0/8.1, and Avionics Obsolescence Upgrade (AOU) for the C/KC-130 program. The FY 2019 funding request was reduced by \$18.819 million to account for the availability of prior year execution balances.										

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	181.840	13.133	17.997	13.361	0.000	13.361	28.260	36.463	30.122	30.298	99.494	450.968
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	181.840	13.133	17.997	13.361	0.000	13.361	28.260	36.463	30.122	30.298	99.494	450.968
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	181.840	13.133	17.997	13.361	0.000	13.361	28.260	36.463	30.122	30.298	99.494	450.968
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The KC-130 provides air-to-air refueling (AAR), aviation delivered ground refueling, tactical troop transport, aerial delivery of personnel and cargo, airborne radio relay, Digital Interoperability (DI), tactical aero-medical evacuation, Intelligence, Surveillance, and Reconnaissance (ISR), and Close Air Support (CAS). The objective of this effort is to integrate an ISR and air-to-ground weapons systems kit into the KC-130J aircraft to provide the Marine Air-Ground Task Force (MAGTF) with an intra-theater CAS and ISR capability for real time intelligence gathering and target detection, identification, and tracking in support of weapons delivery. The ISR/Weapon System Kit will consist of a ISR pod, and wing mounted air-to-ground missiles and precision guided munitions. The system will be configured as a Roll-On/Roll-Off capability for rapid deployment. Future capabilities will support Digital Interoperability and include video and datalink connectivity, Beyond Line of Sight (BLOS)communications, Hellfire P4/N4 compatibility, recovery of external fuel stores, and dual AAR systems, improved human factors, Joint Air to Ground Munitions (JAGM), small diameter bombs and address obsolescence, test platform, and capability gaps. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The KC-130J ISR/Weapons Mission Kit configuration provides Intelligence, Surveillance & Reconnaissance (ISR) Weapon System Capability and Close Air Support capability through both wing mounted munitions and cargo door mounted Standoff Precision Guided Munitions. The 6 baseline ISR/Weapons Mission Kits and 10 baseline aircraft modifications completed production in FY14. This OSIP provides funding to address obsolescence issues [update Battle Management System (BMS) for Hellfire P4/N4 variant missiles] and Joint Air Ground Munitions (JAGM), human factors issues, and fleet capability gaps (recover external fuel stores, recover dual Air-to-Air refueling systems, tactical datalink gap, and communications gap). A-Kits and B-Kits in FY18-FY23 address fleet capability gaps.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C/KC-130T/J				Modification Type: Performance Enhancement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)													
A Kits													
Recurring													
1.1.1) HH+ VDL A Kit - NonOrganic	10 / 3.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 3.750	
1.1.2) Harvest Hawk Plus A Kit - NonOrganic	10 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 3.000	
1.1.3) HH+ Radome A Kit - Organic	4 / 0.200	2 / 0.084	- / -	- / -	- / -	- / -	3 / 0.099	1 / 0.034	- / -	- / -	- / -	10 / 0.417	
1.1.4) Weapon @ OWS430 - NonOrganic	- / -	1 / 3.014	- / -	1 / 2.080	- / -	1 / 2.080	3 / 6.490	3 / 6.750	2 / 4.680	- / -	- / -	10 / 23.014	
1.1.5) JAGM A Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.079	- / -	- / -	4 / 0.321	1 / 0.084	6 / 0.484	
1.1.6) 30MM Gun - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.325	5 / 1.127	6 / 1.452	
1.1.7) Archive - Organic	- / 27.684	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.684	
Subtotal: Recurring	- / 34.634	- / 3.098	- / -	- / 2.080	- / -	- / 2.080	- / 6.668	- / 6.784	- / 4.680	- / 0.646	- / 1.211	- / 59.801	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 5.280	- / 1.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.710	
Subtotal: Non-Recurring	- / 5.280	- / 1.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.710	
B Kits													
Recurring													
2.1.2) 30MM Gun - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.913	5 / 37.552	6 / 43.465	
2.1.3) Weapons @ OWS430 - Organic	- / -	- / -	1 / 0.546	1 / 0.568	- / -	1 / 0.568	3 / 1.773	3 / 1.844	2 / 1.278	- / -	- / -	10 / 6.009	
2.1.4) GFE - Organic	- / 0.782	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.782	
2.1.5) Archive - Organic	- / 91.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 91.480	
Subtotal: Recurring	- / 92.262	- / -	- / 0.546	- / 0.568	- / -	- / 0.568	- / 1.773	- / 1.844	- / 1.278	- / 5.913	- / 37.552	- / 141.736	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 21.157	- / 0.131	- / -	- / -	- / -	- / -	- / 0.500	- / 1.175	- / -	- / 2.768	- / -	- / 25.731	
2.2.2) JAGM NRE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.483	- / -	- / -	- / -	- / 6.483	
2.2.3) JAGM Testing - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.966	- / -	- / 4.360	- / -	- / -	- / 6.326	
2.2.4) JAGM Instrumentation - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.234	- / -	- / -	- / 1.234	
2.2.5) HH+ Testing - Organic	- / -	- / 0.995	- / 2.197	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.192	
2.2.6) 30MM Gun NRE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.718	- / -	- / 6.718	
2.2.7) 30MM Gun Testing - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.300	- / 6.300	
2.2.8) Weapons @ OWS430 NRE - Organic	- / -	- / -	- / 7.719	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.719	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C/KC-130T/J			Modification Type: Performance Enhancement				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.2.10) OWS430 Testing - Organic ⁽¹⁾	- / -	- / -	- / -	- / 4.252	- / -	- / 4.252	- / -	- / -	- / -	- / -	- / -	- / 4.252	
<i>Subtotal: Non-Recurring</i>	- / 21.157	- / 1.126	- / 9.916	- / 4.252	- / -	- / 4.252	- / 2.466	- / 7.658	- / 5.594	- / 9.486	- / 6.300	- / 67.955	
<i>Subtotal: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)</i>	24 / 153.333	3 / 5.654	1 / 10.462	2 / 6.900	- / -	2 / 6.900	10 / 10.907	7 / 16.286	4 / 11.552	6 / 16.045	11 / 45.063	68 / 276.202	
<i>Subtotal: Procurement, All Modification Items</i>	- / 153.333	- / 5.654	- / 10.462	- / 6.900	- / -	- / 6.900	- / 10.907	- / 16.286	- / 11.552	- / 16.045	- / 45.063	- / 276.202	
Support (All Modification Items)													
3.2) Data	- / 0.648	- / 0.023	- / -	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.150	- / 0.150	- / 0.125	- / 0.250	- / 1.446	
3.3) Training Equipment	- / 2.781	- / 2.208	- / -	- / 0.080	- / -	- / 0.080	- / 0.277	- / 0.135	- / 0.030	- / 0.275	- / 1.330	- / 7.116	
3.4) Support Equipment	- / 2.309	- / 0.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / -	- / 2.822	
3.5) ILS	- / 4.184	- / 0.476	- / 0.447	- / 0.431	- / -	- / 0.431	- / 0.538	- / 0.467	- / 0.456	- / 0.907	- / 6.011	- / 13.917	
3.6) Other Support ⁽²⁾	- / 8.943	- / 2.320	- / 3.411	- / 2.979	- / -	- / 2.979	- / 2.420	- / 3.589	- / 4.380	- / 4.519	- / 17.477	- / 50.038	
3.7) Interim Contractor Support ⁽³⁾	- / 5.537	- / 1.638	- / 1.213	- / 2.921	- / -	- / 2.921	- / 2.266	- / 4.118	- / 3.670	- / 4.109	- / 14.608	- / 40.080	
<i>Subtotal: Support</i>	- / 24.402	- / 6.678	- / 5.071	- / 6.461	- / -	- / 6.461	- / 5.551	- / 8.459	- / 8.686	- / 10.435	- / 39.676	- / 115.419	
Installation													
<i>Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)</i>	- / 4.105	- / 0.801	- / 2.464	- / 0.000	- / 0.000	- / 0.000	- / 11.802	- / 9.461	- / 7.761	- / 3.818	- / 14.755	- / 54.967	
<i>Subtotal: Installation</i>	- / 4.105	- / 0.801	- / 2.464	- / -	- / -	- / -	- / 11.802	- / 9.461	- / 7.761	- / 3.818	- / 14.755	- / 54.967	
Total													
Total Cost (Procurement + Support + Installation)	181.840	13.133	17.997	13.361	0.000	13.361	28.260	36.463	30.122	30.298	99.494	450.968	

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0560 / C-130 Series			Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017						
Delivery Dates							
Manufacturer Name: TBD JAGM				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Dec 2019	Dec 2020	Dec 2021	
Delivery Dates				May 2020	May 2021	May 2022	
Manufacturer Name: TBD OWS430				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 10			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Aug 2017		Jan 2019	Jan 2020	Jan 2021	Jan 2022	
Delivery Dates	May 2018		Oct 2019	Sep 2020	Sep 2021	Sep 2022	
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Sierra Nevada - VDL				Manufacturer Location: Patuxent River MD			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 11			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD - BLOS				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 9				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Jun 2021	Jun 2022	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Manufacturer Information

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates					Apr 2022	Apr 2023	

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: HH+ VDL A Kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	10 / 2.805	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 2.805
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 2.805	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 2.805

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Harvest Hawk Plus A Kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 1.300	2 / 0.801	- / -	- / -	- / -	- / -	3 / 4.625	1 / 1.819	- / -	- / -	0 / 0.000	10 / 8.545
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Harvest Hawk Plus A Kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 1.300	2 / 0.801	- / -	- / -	- / -	- / -	3 / 4.625	1 / 1.819	- / -	- / -	0 / 0.000	10 / 8.545

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	10
Out	4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	10

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Weapon @ OWS430

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	1 / 2.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 2.464
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.392	- / -	- / -	- / -	0 / 0.000	1 / 2.392
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.785	1 / 2.489	- / -	- / -	0 / 0.000	3 / 7.274
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.974	1 / 2.587	- / -	0 / 0.000	3 / 7.561
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.174	- / -	0 / 0.000	2 / 5.174
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 2.464	- / -	- / -	- / -	3 / 7.177	3 / 7.463	3 / 7.761	- / -	0 / 0.000	10 / 24.865

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Weapon @ OWS430

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	2	1	-	-	2	1	-	-	2	-	-	-	-	-	10
Out	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	2	1	-	-	2	1	-	-	2	-	-	-	-	10

Method of Implementation: Contractor Drive-In Mod:: Installation Name: JAGM A Kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.179	- / -	- / -	0 / 0.000	1 / 0.179
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.974	0 / 0.000	4 / 0.974
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.251	1 / 0.251
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.179	- / -	4 / 0.974	1 / 0.251	6 / 1.404

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	4	-	1	6
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	4	1	6

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: 30MM Gun

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.844	0 / 0.000	1 / 2.844
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 14.504	5 / 14.504
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.844	5 / 14.504	6 / 17.348

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	6	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	6	

Method of Implementation (Organic): HH+ Radome A Kit - Not Installed	Installation Quantity: 10

Method of Implementation (Organic): 30MM Gun - Not Installed	Installation Quantity: 6

Method of Implementation (Organic): Weapons @ OWS430 - Not Installed	Installation Quantity: 10

Footnotes:

(1) FY19 Increase due to start of OWS430 Testing

(2) FY19 increase due to start up of OWS430 modification.

(3) FY18 ICS, covers the OEM HH+ support for completion of DT/OT FY19 ICS, covers the HH+ & OEM OWS-430 Test FY20 ICS, covers the HH+ & OEM OWS-430 Production Support FY21 ICS, covers the HH+ & OEM JAGM support FY22 ICS, covers the HH+ & OEM JAGM Test Support FY23 ICS, covers the HH+ & OEM OWS-430 & JAGM production completion, 30 MM Gun

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	87.201	18.704	19.923	15.185	0.000	15.185	19.901	21.740	20.929	21.579	88.711	313.873
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	87.201	18.704	19.923	15.185	0.000	15.185	19.901	21.740	20.929	21.579	88.711	313.873
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	87.201	18.704	19.923	15.185	0.000	15.185	19.901	21.740	20.929	21.579	88.711	313.873
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Objective of the Avionics/Obsolescence Upgrades (AOU) Operational, Safety and Improvement Program is to preserve the world-wide capabilities of the C/KC-130 aircraft by providing required capability enhancements and addressing obsolescence. The legacy C/KC-130T model aircraft have been in service for 21 years and still retain many of their original systems which require upgrade to increase mission readiness, meet Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements and address obsolescence issues. In addition obsolescence / Diminishing Manufacturing Sources (DMS) issues are already being realized on the KC-130J aircraft and will have to be addressed in the near future. These upgrades will include faster, more robust processing systems and integrated displays enabling compliance with CNS/ATM requirements. It will provide a growth path to Mode 5 and Joint Precision Landing systems. It will replace numerous avionics systems: radar, Tactical Air Navigation , data recorders, and gauges due to obsolescence or DMS. These upgrades will provide open-systems architecture and interfaces necessary to integrate Real-Time Information in the Cockpit. Changes will also be incorporated into existing training devices. In addition, obsolescence issues with the propeller synchrophaser and valve housing are the C/KC-130T top ten readiness degraders. Modification of these propeller control components via an Electronic Propeller Control System upgrade will mitigate this readiness degrader. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: AOU program affects 20 C-130T aircraft and is post MS-C, LRIP 2 approved. Government is Lead Systems Integrator for AOU, performing the majority of the NRE and installation of the validation and verification aircraft kits. Contract awarded for software integration NRE and non-developmental systems in September 2012. Government testing on validation aircraft began 2017 and continues into 2019. Verification aircraft will undergo installation through 2019, followed by production installs. USN KC-130T aircraft may require this upgrade as well, dependant upon status of transition to KC-130J aircraft.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety / Readiness				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Avionics /Obsolescence Upgrades (OSIP 008-12)													
A Kits													
Recurring													
1.1.1) A Kits - NonOrganic	2 / 2.513	1 / 1.433	1 / 1.462	1 / 1.491	- / -	1 / 1.491	2 / 3.041	2 / 3.102	2 / 3.164	2 / 3.228	6 / 10.374	19 / 29.808	
Subtotal: Recurring	- / 2.513	- / 1.433	- / 1.462	- / 1.491	- / -	- / 1.491	- / 3.041	- / 3.102	- / 3.164	- / 3.228	- / 10.374	- / 29.808	
Non-Recurring													
1.2.1) Installation Kits N/R - NonOrganic	1 / 24.528	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 24.528	
Subtotal: Non-Recurring	- / 24.528	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 24.528	
B Kits													
Recurring													
2.1.1) B Kits - Organic	2 / 5.936	1 / 2.936	1 / 3.009	1 / 3.085	- / -	1 / 3.085	2 / 6.323	2 / 6.482	2 / 6.644	2 / 6.810	6 / 26.514	19 / 67.739	
Subtotal: Recurring	- / 5.936	- / 2.936	- / 3.009	- / 3.085	- / -	- / 3.085	- / 6.323	- / 6.482	- / 6.644	- / 6.810	- / 26.514	- / 67.739	
Non-Recurring													
2.2.1) NRE/TEST - Government - Organic ⁽⁴⁾	- / 3.504	- / 6.446	- / 8.250	- / 1.882	- / -	- / 1.882	- / -	- / -	- / -	- / -	- / -	- / 20.082	
2.2.2) NRE - Contractor - Organic	1 / 22.230	- / -	- / 1.247	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 23.477	
Subtotal: Non-Recurring	- / 25.734	- / 6.446	- / 9.497	- / 1.882	- / -	- / 1.882	- / -	- / -	- / -	- / -	- / 0.000	- / 43.559	
Subtotal: Avionics /Obsolescence Upgrades (OSIP 008-12)	6 / 58.711	2 / 10.815	2 / 13.968	2 / 6.458	- / -	2 / 6.458	4 / 9.364	4 / 9.584	4 / 9.808	4 / 10.038	12 / 36.888	40 / 165.634	
Subtotal: Procurement, All Modification Items	- / 58.711	- / 10.815	- / 13.968	- / 6.458	- / -	- / 6.458	- / 9.364	- / 9.584	- / 9.808	- / 10.038	- / 36.888	- / 165.634	
Support (All Modification Items)													
3.1) Data ⁽⁵⁾	- / 0.600	- / -	- / -	- / 1.363	- / -	- / 1.363	- / 1.508	- / 1.395	- / 0.686	- / 0.857	- / -	- / 6.409	
3.2) Training Equipment	- / 1.704	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.917	- / 11.621	
3.3) Support Equipment	- / 2.627	- / 0.295	- / 0.337	- / 0.270	- / -	- / 0.270	- / 0.675	- / 0.681	- / 0.286	- / 0.292	- / 0.912	- / 6.375	
3.4) ILS ⁽⁶⁾	- / 3.818	- / 0.974	- / 0.989	- / 1.360	- / -	- / 1.360	- / 1.732	- / 0.935	- / 0.944	- / 0.953	- / 1.469	- / 13.174	
3.5) Other Support ⁽⁷⁾	- / 15.973	- / 1.595	- / 2.066	- / 3.120	- / -	- / 3.120	- / 3.956	- / 3.705	- / 3.657	- / 3.780	- / 13.551	- / 51.403	
Subtotal: Support	- / 24.722	- / 2.864	- / 3.392	- / 6.113	- / -	- / 6.113	- / 7.871	- / 6.716	- / 5.573	- / 5.882	- / 25.849	- / 88.982	
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety / Readiness				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Modification Item 1 of 1: Avionics /Obsolescence Upgrades (OSIP 008-12)	- / 3.768	- / 5.025	- / 2.563	- / 2.614	- / 0.000	- / 2.614	- / 2.666	- / 5.440	- / 5.548	- / 5.659	- / 25.974	- / 59.257	
<i>Subtotal: Installation</i>	- / 3.768	- / 5.025	- / 2.563	- / 2.614	- / -	- / 2.614	- / 2.666	- / 5.440	- / 5.548	- / 5.659	- / 25.974	- / 59.257	
Total													
Total Cost (Procurement + Support + Installation)	87.201	18.704	19.923	15.185	0.000	15.185	19.901	21.740	20.929	21.579	88.711	313.873	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0560 / C-130 Series										Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: Avionics /Obsolescence Upgrades (OSIP 008-12)																																							
Manufacturer Information																																							
Manufacturer Name: Multiple															Manufacturer Location: TBD - A Kits																								
Administrative Leadtime (in Months): 10															Production Leadtime (in Months): 12																								
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023													
Contract Dates		Jul 2017				Jul 2018				Jul 2019				Nov 2019				Nov 2020				Nov 2021				Nov 2021													
Delivery Dates		Sep 2018				Jul 2019				Jul 2020				Nov 2020				Nov 2021				Nov 2022				Nov 2023													
Installation Information																																							
Method of Implementation: Contractor Drive In Mod:: Installation Name: AOU																																							
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total															
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)															
Prior Years		2 / 3.768		1 / 5.025		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		3 / 8.793															
FY 2017		- / -		- / -		1 / 2.563		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		1 / 2.563															
FY 2018		- / -		- / -		- / -		1 / 2.614		0 / 0.000		1 / 2.614		- / -		- / -		- / -		- / -		0 / 0.000		1 / 2.614															
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		1 / 2.666		- / -		- / -		- / -		0 / 0.000		1 / 2.666															
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 5.440		- / -		- / -		0 / 0.000		2 / 5.440															
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 5.548		- / -		0 / 0.000		2 / 5.548															
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 5.659		0 / 0.000		2 / 5.659															
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 6.350		2 / 6.350															
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		6 / 19.624		6 / 19.624															
Total		2 / 3.768		1 / 5.025		1 / 2.563		1 / 2.614		0 / 0.000		1 / 2.614		1 / 2.666		2 / 5.440		2 / 5.548		2 / 5.659		8 / 25.974		20 / 59.257															
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	2	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	1	-	2	-	-	-	2	-	-	-	2	-	-	-	8	20							
Out	1	-	-	-	-	1	-	1	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	2	-	-	-	2	8	20								
Method of Implementation (Organic): B Kits																														Installation Quantity: 19									
Method of Implementation (Organic): NRE - Contractor - Not Installed																														Installation Quantity: 1									

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: ⁽⁴⁾ Government Mission Suitability Evaluation begins in late FY16 and continues through FY18 to support FY19 IOC. Test increase in FY18/FY19 is due to Software Delays and availability of flight worthy propellers due to current C/KC-130T Red Stripe. ⁽⁵⁾ FY19 Data increase is to support IOC. ⁽⁶⁾ AOU program CNS ATM funding will be provided for program support in FY18 through FY21. ⁽⁷⁾ AOU program CNS ATM funding will be provided for program support in FY18 through FY21.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	82.969	5.949	3.338	6.151	0.000	6.151	7.701	7.804	8.312	8.637	48.522	179.383
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	82.969	5.949	3.338	6.151	0.000	6.151	7.701	7.804	8.312	8.637	48.522	179.383
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	82.969	5.949	3.338	6.151	0.000	6.151	7.701	7.804	8.312	8.637	48.522	179.383
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The KC-130 provides air-to-air refueling, rapid ground refueling, tactical troop transport, aerial delivery of personnel and cargo, airborne radio relay, Digital Interoperability (DI), tactical aero-medical evacuation, intelligence, surveillance, and reconnaissance (ISR), and Close Air Support (CAS). This OSIP provides funding for the addition of new Aircraft Survivability Equipment (ASE), including Department of the Navy (DoN) Large Aircraft Infrared Counter Measures (LAIRCM) with Advanced Threat Warning (ATW) and the KC-130J Adjustable Ballast System (JABS) to the KC-130J Aircraft which will increase survivability and allow the aircraft to operate under expanded threat environments, thereby increasing combat effectiveness. Aircraft operations, such as Harvest HAWK missions, include exposure to threats against which the current ASE is not effective. The addition of LAIRCM (ATW) to the KC-130J expands the aircrafts capability to perform its core Mission Essential Tasking in any infrared threat environment. This OSIP also provides funding to ensure the most effective threat adaptive, reprogrammable, computer controlled threat defeating capabilities for the Defensive Electronic Counter Measures (DECM) portion of the ASE to increase combat effectiveness. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The USMC is leveraging off of integration development and testing performed by the USAF to provide LAIRCM for its C-130J and HC/MC-130J to minimize Non-Recurring Engineering (NRE), test, and installation costs. The USMC is also leveraging off of DoN LAIRCM platforms to provide a common solution among naval platforms and to reduce Operations and Support (O&S) costs. Modification of aircraft will be performed as a Drive-In Modification.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Electronic Counter Measures (OSIP 020-12)													
A Kits													
Recurring													
1.1.1) LAIRCM A Kit - NonOrganic ⁽⁸⁾	18 / 4.862	- / -	3 / 1.912	3 / 2.035	- / -	3 / 2.035	3 / 2.150	3 / 2.222	3 / 2.297	3 / 2.375	18 / 10.804	54 / 28.657	
1.1.2) LAIRCM JABS - NonOrganic ⁽⁹⁾	1 / 0.130	2 / 0.077	2 / 0.086	9 / 0.462	- / -	9 / 0.462	9 / 0.480	6 / 0.333	6 / 0.404	7 / 0.420	12 / 0.924	54 / 3.316	
<i>Subtotal: Recurring</i>	- / 4.992	- / 0.077	- / 1.998	- / 2.497	- / -	- / 2.497	- / 2.630	- / 2.555	- / 2.701	- / 2.795	- / 11.728	- / 31.973	
Non-Recurring													
1.2.1) NRE - Contractor - Organic	- / 22.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.078	
<i>Subtotal: Non-Recurring</i>	- / 22.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 22.078	
B Kits													
Recurring													
2.1.1) LAIRCM B Kit - Organic	12 / 17.634	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 17.634	
2.1.2) Meons - Organic	7 / 0.612	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.113	- / 0.115	- / 0.116	7 / 0.956	
2.1.3) PCMCIA Cards - Organic	- / -	- / 0.038	- / -	- / -	- / -	- / -	- / 0.007	- / 0.005	- / 0.049	- / 0.050	- / -	- / 0.149	
2.1.4) GFE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.471	- / 0.471	
<i>Subtotal: Recurring</i>	- / 18.246	- / 0.038	- / -	- / -	- / -	- / -	- / 0.007	- / 0.005	- / 0.162	- / 0.165	- / 0.587	- / 19.210	
Non-Recurring													
2.2.1) NRE/Test - Government - Organic	- / 10.622	- / 0.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.139	
<i>Subtotal: Non-Recurring</i>	- / 10.622	- / 0.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 11.139	
<i>Subtotal: Electronic Counter Measures (OSIP 020-12)</i>	38 / 55.938	2 / 0.632	5 / 1.998	12 / 2.497	- / -	12 / 2.497	12 / 2.637	9 / 2.560	9 / 2.863	10 / 2.960	30 / 12.315	127 / 84.400	
<i>Subtotal: Procurement, All Modification Items</i>	- / 55.938	- / 0.632	- / 1.998	- / 2.497	- / -	- / 2.497	- / 2.637	- / 2.560	- / 2.863	- / 2.960	- / 12.315	- / 84.400	
Support (All Modification Items)													
3.1) Data	- / 0.097	- / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.113	
3.2) Training Equipment	- / 0.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.386	
3.3) Support Equipment	- / 1.096	- / 0.108	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.204	
3.4) ILS	- / 2.814	- / 0.852	- / 0.686	- / 0.605	- / -	- / 0.605	- / 0.597	- / 0.608	- / 0.597	- / 0.621	- / 1.786	- / 9.166	
3.5) Other Support	- / 9.405	- / 1.235	- / 0.654	- / 0.671	- / -	- / 0.671	- / 0.486	- / 0.495	- / 0.691	- / 0.678	- / 2.862	- / 17.177	
<i>Subtotal: Support</i>	- / 13.798	- / 2.211	- / 1.340	- / 1.276	- / -	- / 1.276	- / 1.083	- / 1.103	- / 1.288	- / 1.299	- / 4.648	- / 28.046	
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Modification Item 1 of 1: Electronic Counter Measures (OSIP 020-12)	- / 13.233	- / 3.106	- / 0.000	- / 2.378	- / 0.000	- / 2.378	- / 3.981	- / 4.141	- / 4.161	- / 4.378	- / 31.559	- / 66.937	
<i>Subtotal: Installation</i>	- / 13.233	- / 3.106	- / -	- / 2.378	- / -	- / 2.378	- / 3.981	- / 4.141	- / 4.161	- / 4.378	- / 31.559	- / 66.937	
Total													
Total Cost (Procurement + Support + Installation)	82.969	5.949	3.338	6.151	0.000	6.151	7.701	7.804	8.312	8.637	48.522	179.383	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0560 / C-130 Series										Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Electronic Counter Measures (OSIP 020-12)																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin - LAIRCM															Manufacturer Location: Marietta, GA																
Administrative Leadtime (<i>in Months</i>): 4															Production Leadtime (<i>in Months</i>): 26																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Jan 2017				Jan 2018				Jan 2019				Jan 2020				Jan 2021				Jan 2022				Jan 2023					
Delivery Dates		May 2018				Mar 2020				Mar 2021				Mar 2022				Mar 2023				Mar 2024				Mar 2025					
Installation Information																															
Method of Implementation: Contractor Drive-In Modification:: Installation Name: LAIRCM A Kit																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)		Qty (<i>Each</i>) / Total Cost (\$ <i>M</i>)									
Prior Years		13 / 13.064		3 / 3.005		- / -		2 / 2.292		0 / 0.000		2 / 2.292		- / -		- / -		- / -		- / -		0 / 0.000		18 / 18.361							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		3 / 3.577		- / -		- / -		- / -		0 / 0.000		3 / 3.577							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 3.720		- / -		- / -		0 / 0.000		3 / 3.720							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 3.869		- / -		0 / 0.000		3 / 3.869							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 4.024		0 / 0.000		3 / 4.024							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 4.104		3 / 4.104							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 4.186		3 / 4.186							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		18 / 21.806		18 / 21.806							
Total		13 / 13.064		3 / 3.005		- / -		2 / 2.292		0 / 0.000		2 / 2.292		3 / 3.577		3 / 3.720		3 / 3.869		3 / 4.024		24 / 30.096		54 / 63.647							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	2	1	-	-	-	-	-	-	1	1	-	-	-	3	-	-	-	3	-	-	-	3	-	-	-	3	-	-	24	54
Out	9	4	2	1	-	-	-	-	-	-	1	1	-	-	-	3	-	-	-	3	-	-	-	3	-	-	-	3	-	24	54

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Electronic Counter Measures (OSIP 020-12)

Installation Information

Method of Implementation: [none specified]:: Installation Name: LAIRCM JABS

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.169	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.169
FY 2017	- / -	2 / 0.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.101
FY 2018	- / -	- / -	- / -	2 / 0.086	0 / 0.000	2 / 0.086	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.086
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.404	- / -	- / -	- / -	0 / 0.000	9 / 0.404
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.421	- / -	- / -	0 / 0.000	9 / 0.421
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.292	- / -	0 / 0.000	6 / 0.292
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.354	0 / 0.000	6 / 0.354
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.539	7 / 0.539
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.924	12 / 0.924
Total	1 / 0.169	2 / 0.101	- / -	2 / 0.086	0 / 0.000	2 / 0.086	9 / 0.404	9 / 0.421	6 / 0.292	6 / 0.354	19 / 1.463	54 / 3.290

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	2	-	-	-	-	-	2	-	-	-	3	3	3	-	3	3	3	-	2	2	2	-	2	2	2	-	19	54
Out	1	-	-	-	2	-	-	-	-	-	2	-	-	-	3	3	3	-	3	3	3	-	2	2	2	-	2	2	2	19	54

Method of Implementation (Organic): LAIRCM B Kit - Not Installed **Installation Quantity:** 12

Method of Implementation (Organic): Meons - Not Installed **Installation Quantity:** 7

Footnotes:

⁽⁸⁾ Aircraft equipped with A Kits can operate with or without B Kits.

⁽⁹⁾ LAIRCM modified aircraft require a JABS kit installed prior to flight

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8.323	13.263	35.828	43.592	0.000	43.592	71.922	74.943	72.162	71.777	110.729	502.539
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8.323	13.263	35.828	43.592	0.000	43.592	71.922	74.943	72.162	71.777	110.729	502.539
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8.323	13.263	35.828	43.592	0.000	43.592	71.922	74.943	72.162	71.777	110.729	502.539
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Technical Insertion provides for the incorporation and/or Tactical Demonstration (TACDEMO) of new or updated technologies to support safety, reliability, supportability, obsolescence, deficiency correction, mandated modifications, commonality, Digital Interoperability (DI), Electronic Warfare (EW), interoperability or affordability of the C/KC-130 platform. Technical Insertion updates support those technology initiatives that apply to aircraft avionics, navigation, communications, transponders, sensors, transmitters, antennae, mission computers and associated systems, electronic mission systems, or other electronic aircraft systems. Current modifications include: KC-130J Block Upgrade 7.0/8.1, which includes Communication Navigation Surveillance System (CNS) Air Traffic Management (ATM) mandates (new Flight Management System (FMS), transponder and Mission Computer updates for Required Navigation Performance (RNP) and Area Navigation (RNAV) and Automatic Dependent Surveillance - Broadcast (ADS-B) Out, safety improvements (improved Intercom System (ICS) Portable Audio (PA) System and enhanced covert lighting), deficiency correction Telecommunications Electronics Material Protected from Emanating Spurious Transmissions (TEMPEST) compliance), and DI updates (Mode 5 Identification Friend and Foe (IFF) and Link 16). Future modifications could include: Capability Management Upgrade (CMU) with FMS performance enhancements to ensure future mission readiness of the KC-130J fleet. Software Reprogrammable Payload (SRP), the Blue Force Tracker (BFT) Blue Force Situational Awareness (BFSA) initiative, and KuSS Beyond Line of Sight (BLOS) to support DI within the Marine Air Ground Task Force (MAGTF) and across the services. The RADAR Receiver Upgrade addresses the obsolete APS-133 Radar Set which is the #1 avionics system level readiness degrader for the legacy C/KC-130 aircraft, providing enhanced reliability and supportability. The Tactical Air Navigation System (TACAN) upgrade addresses the obsolescence of the ARN-139 TACAN Set, which is only installed on Navy and Marine C/KC-130 aircraft and is no longer maintained due to lack of spare components. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Block 7.0 / Block 8.1 peculiar NRE started in FY15 with the first Trial Kit Install in FY17; the upgrade consists of 59 kits and installs starting in FY17 and completing beyond the FYDP.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: KC-130T/J				Modification Type: Safety / Reliability / Obsolescence				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Technical Insertion (OSIP 019-14)													
A Kits													
Recurring													
1.1.1) A Kit 7.0/8.1 Block Upgrade - NonOrganic		- / -	- / -	5 / 7.545	9 / 13.989	- / -	9 / 13.989	10 / 16.009	10 / 16.489	11 / 18.682	12 / 20.990	1 / 1.802	58 / 95.506
1.1.2) A Kit ADS-B Out - NonOrganic		53 / 0.134	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 0.134
Subtotal: Recurring		- / 0.134	- / -	- / 7.545	- / 13.989	- / -	- / 13.989	- / 16.009	- / 16.489	- / 18.682	- / 20.990	- / 1.802	- / 95.640
Non-Recurring													
1.2.1) Installation Kit N/R Block Upgrade - Organic		- / 2.163	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.163
Subtotal: Non-Recurring		- / 2.163	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.163
B Kits													
Recurring													
2.1.1) Block 7.08/8.1 GFE - Organic ⁽¹⁰⁾		- / -	- / -	- / -	3 / 2.707	- / -	3 / 2.707	10 / 9.473	6 / 5.968	5 / 5.222	3 / 3.290	59 / 67.934	86 / 94.594
2.1.2) B Kit 7.0/8.1 Block Upgrade - Organic		- / -	- / -	5 / 11.734	9 / 21.756	- / -	9 / 21.756	10 / 24.898	10 / 25.645	11 / 29.057	12 / 32.648	1 / 2.802	58 / 148.540
Subtotal: Recurring		- / 0.000	- / -	- / 11.734	- / 24.463	- / -	- / 24.463	- / 34.371	- / 31.613	- / 34.279	- / 35.938	- / 70.736	- / 243.134
Non-Recurring													
2.2.1) ADS-B Out NRE - Organic		- / -	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.005
2.2.2) Installation Kit N/R Block Upgrade - Organic		- / 4.516	- / 3.724	- / 2.707	- / 2.568	- / -	- / 2.568	- / -	- / -	- / -	- / -	- / -	- / 13.515
Subtotal: Non-Recurring		- / 4.516	- / 3.729	- / 2.707	- / 2.568	- / -	- / 2.568	- / -	- / -	- / -	- / -	- / 0.000	- / 13.520
Subtotal: Technical Insertion (OSIP 019-14)		53 / 6.813	- / 3.729	10 / 21.986	21 / 41.020	- / -	21 / 41.020	30 / 50.380	26 / 48.102	27 / 52.961	27 / 56.928	61 / 72.538	255 / 354.457
Subtotal: Procurement, All Modification Items		- / 6.813	- / 3.729	- / 21.986	- / 41.020	- / -	- / 41.020	- / 50.380	- / 48.102	- / 52.961	- / 56.928	- / 72.538	- / 354.457
Support (All Modification Items)													
3.2) Data Block Upgrade		- / -	- / 0.810	- / 0.810	- / 0.419	- / -	- / 0.419	- / -	- / -	- / -	- / -	- / -	- / 2.039
3.3) Training Equipment Block Upgrade ⁽¹¹⁾		- / -	- / 6.500	- / 9.400	- / -	- / -	- / -	- / 12.504	- / 13.842	- / 4.387	- / -	- / -	- / 46.633
3.4) Support Equipment Block Upgrade		- / -	- / 0.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.125
3.5) ILS Block Upgrade		- / 0.546	- / 0.421	- / 0.905	- / 1.003	- / -	- / 1.003	- / 1.016	- / 1.188	- / 1.224	- / 1.260	- / 2.635	- / 10.198
3.6) ILS ADS-B Out		- / -	- / 0.354	- / 0.169	- / 0.121	- / -	- / 0.121	- / -	- / -	- / -	- / -	- / -	- / 0.644
3.7) Other Support Block Upgrade		- / 0.964	- / 0.478	- / 0.623	- / 0.776	- / -	- / 0.776	- / 0.762	- / 0.903	- / 0.930	- / 0.958	- / 2.003	- / 8.397
3.8) Other Support ADS-B Out		- / -	- / 0.846	- / 0.248	- / 0.253	- / -	- / 0.253	- / -	- / -	- / -	- / -	- / -	- / 1.347
Subtotal: Support		- / 1.510	- / 9.534	- / 12.155	- / 2.572	- / -	- / 2.572	- / 14.282	- / 15.933	- / 6.541	- / 2.218	- / 4.638	- / 69.383
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: KC-130T/J				Modification Type: Safety / Reliability / Obsolescence				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Modification Item 1 of 1: Technical Insertion (OSIP 019-14)	- / 0.000	- / 0.000	- / 1.687	- / 0.000	- / 0.000	- / 0.000	- / 6.014	- / 9.538	- / 11.071	- / 11.594	- / 28.680	- / 68.584	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 1.687	- / -	- / -	- / -	- / 6.014	- / 9.538	- / 11.071	- / 11.594	- / 28.680	- / 68.584	
Total													
Total Cost (Procurement + Support + Installation)	8.323	13.263	35.828	43.592	0.000	43.592	71.922	74.943	72.162	71.777	110.729	502.539	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0560 / C-130 Series										Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Technical Insertion (OSIP 019-14)																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin - Block Upgrade															Manufacturer Location: Greenville, SC																
Administrative Leadtime (<i>in Months</i>): 5															Production Leadtime (<i>in Months</i>): 24																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates						Feb 2018				Feb 2019				Feb 2020				Feb 2021				Feb 2022									
Delivery Dates						Feb 2020				Feb 2021				Feb 2022				Feb 2023				Feb 2024									
Manufacturer Name: D.T. Brown Inc															Manufacturer Location: Bohemia, NY																
Administrative Leadtime (<i>in Months</i>): 2															Production Leadtime (<i>in Months</i>): 4																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Contractor Drive-In Mod:: Installation Name: A Kit 7.0/8.1 Block Upgrade																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	5 / 6.014	- / -	- / -	- / -	0 / 0.000	5 / 6.014																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 9.538	- / -	- / -	0 / 0.000	9 / 9.538																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 11.071	- / -	0 / 0.000	10 / 11.071																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 11.594	0 / 0.000	10 / 11.594																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 13.145	11 / 13.145																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 14.340	12 / 14.340																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.195	1 / 1.195																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	5 / 6.014	9 / 9.538	10 / 11.071	10 / 11.594	24 / 28.680	58 / 66.897																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	3	3	3	-	4	3	3	-	4	3	3	24	58
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	3	3	3	-	4	3	3	-	4	30	58

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0560 / C-130 Series										Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Technical Insertion (OSIP 019-14)																															
Installation Information																															
Method of Implementation: Contractor Drive-In Mod:: Installation Name: A Kit ADS-B Out																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	53 / 1.687	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	53 / 1.687																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	53 / 1.687	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	53 / 1.687																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	15	14	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
Out	-	-	-	-	-	-	15	14	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
Method of Implementation (Organic): Block 7.08/8.1 GFE - Not Installed																														Installation Quantity: 86	
Method of Implementation (Organic): B Kit 7.0/8.1 Block Upgrade - Not Installed																														Installation Quantity: 58	
Footnotes: ⁽¹⁰⁾ Block Upgrade Modifications require STAR IX Mission Computers (MC) as GFE prerequisite to install (2 per A/C). Current fleet assets in the amount of qty. 14 cover installs for FY18/FY19 kits. GFE procurements beginning in FY20 will support all future Block Upgrade ⁽¹¹⁾ FY17 increase due to initial modification to Weapon System Trainer (WST) and associated NRE for Block Upgrade incorporation.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	2.618	6.455	0.786	0.000	0.786	2.862	2.273	1.839	1.906	3.290	22.029
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	2.618	6.455	0.786	0.000	0.786	2.862	2.273	1.839	1.906	3.290	22.029
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	2.618	6.455	0.786	0.000	0.786	2.862	2.273	1.839	1.906	3.290	22.029
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to Navy C/KC-130 aircraft. To ensure preservation of Marine Air Ground Task Force (MAGTF) Assault Support and Navy-Unique Fleet Essential Aircraft capabilities world-wide, this Safety, Reliability and Obsolescence Improvement OSIP provides funding for issues that adversely affect aircraft safety, reliability and/or availability. Applicable areas include Power and Propulsion, Airframes and Structures, Safety and Life Support, Electrical Power, and Survivability.

The current KC-130 aircraft do not have crashworthy observer seats in the cargo compartment. This is a critical safety issue due to the mission of the KC-130 aircraft. Funding will begin in FY17. The Power Unit Accessory Drive (PUAD) drain kits for the AE2100 Engine are required to address an issue during maintenance in which the engines are flooded resulting in a FOD situation and mandates removal and overhaul of the engine affecting reliability, availability and impacting mission readiness. The KC-130J Legacy Smoke Mask is designed to be worn with separate smoke goggles. the two piece oxygen mask/smoke goggle system requires two hand donning, which results in extended donning times in a smoke or fumes emergency. Additionally, the separate legacy smoke goggles do not seal properly to crew members faces, causing smoke to fill the goggles and encumber the crews ability to act in a smoke or fumes emergency. Current ICS system is a hardwire solution that impedes the aircrews ability to carry out critical mission sets. A wireless ICS system will provide safer, unrestricted mobility for crew members to perform critical missions such as Aerial Cargo Delivery, Rapid Ground Refueling, and Aerial Refueling. In addition, a wireless ICS facilitates crew members egress in the event of an emergency.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: KC-130J/T				Modification Type: Safety / Reliability / Obsolescence				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Safety/Obsolescence Upgrades (OSIP 015-17)													
B Kits													
Recurring													
2.1.1) KC-130J Observer Seat B Kit - Organic	- / -	- / -	63 / 6.102	4 / 0.345	- / -	4 / 0.345	24 / 2.360	18 / 1.800	15 / 1.464	15 / 1.512	19 / 2.466	158 / 16.049	
2.1.2) KC-130J PUAD B-Kit - Organic	- / -	266 / 2.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	266 / 2.394	
<i>Subtotal: Recurring</i>	- / 0.000	- / 2.394	- / 6.102	- / 0.345	- / -	- / 0.345	- / 2.360	- / 1.800	- / 1.464	- / 1.512	- / 2.466	- / 18.443	
<i>Subtotal: Safety/Obsolescence Upgrades (OSIP 015-17)</i>	- / -	266 / 2.394	63 / 6.102	4 / 0.345	- / -	4 / 0.345	24 / 2.360	18 / 1.800	15 / 1.464	15 / 1.512	19 / 2.466	424 / 18.443	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 2.394	- / 6.102	- / 0.345	- / -	- / 0.345	- / 2.360	- / 1.800	- / 1.464	- / 1.512	- / 2.466	- / 18.443	
Support (All Modification Items)													
3.2) KC-130J Observer Seat Support Equipment	- / -	- / -	- / -	- / 0.087	- / -	- / 0.087	- / 0.053	- / 0.024	- / -	- / -	- / -	- / 0.164	
3.4) KC-130J Observer Seat ILS	- / -	- / 0.107	- / 0.181	- / 0.185	- / -	- / 0.185	- / 0.233	- / 0.232	- / 0.196	- / 0.205	- / 0.429	- / 1.768	
3.5) KC-130J Observer Seat Other Support	- / -	- / 0.117	- / 0.172	- / 0.169	- / -	- / 0.169	- / 0.216	- / 0.217	- / 0.179	- / 0.189	- / 0.395	- / 1.654	
<i>Subtotal: Support</i>	- / 0.000	- / 0.224	- / 0.353	- / 0.441	- / -	- / 0.441	- / 0.502	- / 0.473	- / 0.375	- / 0.394	- / 0.824	- / 3.586	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	2.618	6.455	0.786	0.000	0.786	2.862	2.273	1.839	1.906	3.290	22.029	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Safety/Obsolescence Upgrades (OSIP 015-17)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 6 / Inactive OSIPs

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	250.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	250.383
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	250.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	250.383
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	250.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	250.383
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 6 / Inactive OSIPs			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
A Kits													
Recurring													
1.1.1) Inactive OSIPs - Organic	- / 250.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 250.383	
<i>Subtotal: Recurring</i>	- / 250.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 250.383	
<i>Subtotal: Inactive OSIPs</i>	- / 250.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 250.383	
<i>Subtotal: Procurement, All Modification Items</i>	- / 250.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 250.383	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	250.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	250.383	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 6 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	99.437	0.618	0.630	0.597	0.000	0.597	0.592	0.672	0.685	0.700	4.431	108.362
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	99.437	0.618	0.630	0.597	0.000	0.597	0.592	0.672	0.685	0.700	4.431	108.362
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	99.437	0.618	0.630	0.597	0.000	0.597	0.592	0.672	0.685	0.700	4.431	108.362
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line funds Fleet Electronic Warfare Support Group (FEWSG) modifications to avionics equipment used for fleet training exercises by opposing forces and adversary forces used during counter surface and attack training scenarios and fleet exercises. The overall goal is to accurately simulate known and postulated electronic attack capability and tactics of radar and jammer threats expected to be encountered during operational deployments.

Current equipment, AN/ALQ-167, AN/AST-6 and follow-on AN/AST-9 pod variants are carried aboard F/A-18, Lear Jet, Kfir (F-21), Hawker/Hunter (F-58), Gulfstream (G-1) and F-16 aircraft. The AN/ALQ-237 rack installation is an internal aircraft variant of the Filthy Badger used on F-5N. The remaining quantities of 15 legacy AST-6 pods are no longer supportable. These pods are being augmented/replaced by AN/AST-9 and will be flown until the end of their operational service life. The adversary systems (aka HAVE ALL-Filthy Badger) comprise 19 ALQ-167 pods, 12 F-5 rack installs and 3 ACaP pods procured in coordination with the United States Air Force (USAF).

All subsequent installations are modifications to fleet systems based on the Adversary Electronic Attack Digital Radio Frequency Memory (DRFM) Roadmap for Filthy Badger classified program requirements. The program focuses on the Filthy Badger modification schedule and support of the required engineering and logistics to accomplish these upgrades in future years.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83) (RELIABILITY, MAINTAINABILITY, CAPABILITY)				- / 99.437	- / 0.618	- / 0.630	- / 0.597	- / 0.000	- / 0.597
P-40	Total Gross/Weapon System Cost				- / 99.437	- / 0.618	- / 0.630	- / 0.597	- / 0.000	- / 0.597
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83) (RELIABILITY, MAINTAINABILITY, CAPABILITY)				- / 0.592	- / 0.672	- / 0.685	- / 0.700	- / 4.431	- / 108.362
P-40	Total Gross/Weapon System Cost				- / 0.592	- / 0.672	- / 0.685	- / 0.700	- / 4.431	- / 108.362
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

The FY 2019 funding request was reduced by \$0.006M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)					Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	99.437	0.618	0.630	0.597	0.000	0.597	0.592	0.672	0.685	0.700	4.431	108.362
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	99.437	0.618	0.630	0.597	0.000	0.597	0.592	0.672	0.685	0.700	4.431	108.362
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	99.437	0.618	0.630	0.597	0.000	0.597	0.592	0.672	0.685	0.700	4.431	108.362
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line funds Fleet Electronic Warfare Support Group (FEWSG) modifications to avionics equipment used for fleet training exercises by opposing forces and adversary forces used during counter surface and attack training scenarios and fleet exercises. The overall goal is to accurately simulate known and postulated electronic attack capability and tactics of radar and jammer threats expected to be encountered during operational deployments. Operation systems under Operational Safety Improvement Program (OSIP) 119-83 were divested prior to FY 2002. Current equipment, AN/ALQ-167, AN/AST-6 and follow-on AN/AST-9 pod variants are carried aboard F/A-18, Lear Jet, Kfir (F-21), Hawker/Hunter (F-58), Gulfstream (G-1) and F-16 aircraft. Internal aircraft installation variants, AN/ULQ-21/24 are used in targets and the AN/ALQ-237 rack installation is used on F-5N. The remaining quantities of 20 legacy AST-6 pods are no longer repairable. These pods are being augmented/replaced by AN/AST-9 and will be flown until the end of their operational service life. The adversary systems (aka HAVE ALL-Filthy Bader) comprised 19 ALQ-167 pods, 12 F-5 rack installs and 3 ACaP pods procured in coordination with the United States Air Force (USAF). Commenced in FY 2014, one legacy ALQ-167 pod per year from the remaining pods inventory will be converted to DRFM configuration. All subsequent installations are modifications to fleet systems based on the Adversary Electronic Attack DRFM Roadmap for Filthy Badger classified program requirements. The program focuses on the Filthy Badger modification schedule and support of the required engineering and logistics to accomplish these upgrades in future years. Current status: Following rapid delivery of the 34 AAP systems funded in FY 2011 with final deliveries in FY 2015, the program shifted focus from full production to the Filthy Badger modification schedule and support of the engineering and logistics to accomplish these upgrades in future years and further directed for no additional legacy ALQ-167 pod conversions.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)						Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ ALQ-237, AN/ALQ-167 (OSIP 119-83)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: NOT APPLICABLE				Modification Type: RELIABILITY, MAINTAINABILITY, CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)													
B Kits													
Recurring													
1.1.1) Install Equipment (B Kits) - Organic ⁽¹⁾	1,049 / 76.250	1 / 0.052	1 / 0.200	1 / 0.209	- / -	1 / 0.209	1 / 0.056	1 / 0.058	1 / 0.060	1 / 0.064	24 / 0.365	1,080 / 77.314	
Subtotal: Recurring	- / 76.250	- / 0.052	- / 0.200	- / 0.209	- / -	- / 0.209	- / 0.056	- / 0.058	- / 0.060	- / 0.064	- / 0.365	- / 77.314	
Non-Recurring													
1.2.1) Install Equipment N/R - Organic	- / 2.277	- / 0.074	- / 0.040	- / 0.056	- / -	- / 0.056	- / 0.058	- / 0.079	- / 0.080	- / 0.060	- / 0.475	- / 3.199	
Subtotal: Non-Recurring	- / 2.277	- / 0.074	- / 0.040	- / 0.056	- / -	- / 0.056	- / 0.058	- / 0.079	- / 0.080	- / 0.060	- / 0.475	- / 3.199	
Subtotal: AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)	1,049 / 78.527	1 / 0.126	1 / 0.240	1 / 0.265	- / -	1 / 0.265	1 / 0.114	1 / 0.137	1 / 0.140	1 / 0.124	24 / 0.840	1,080 / 80.513	
Subtotal: Procurement, All Modification Items	- / 78.527	- / 0.126	- / 0.240	- / 0.265	- / -	- / 0.265	- / 0.114	- / 0.137	- / 0.140	- / 0.124	- / 0.840	- / 80.513	
Support (All Modification Items)													
2.1) Engineering Change Orders	- / 2.928	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.928	
2.2) Data	- / 0.406	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.406	
2.3) Training Equipment	3 / 4.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.815	
2.4) Support Equipment	- / 5.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.510	
2.5) ILS	- / 2.443	- / 0.260	- / 0.200	- / 0.137	- / -	- / 0.137	- / 0.248	- / 0.276	- / 0.280	- / 0.296	- / 1.748	- / 5.888	
2.6) Other Support	- / 4.808	- / 0.232	- / 0.190	- / 0.195	- / -	- / 0.195	- / 0.230	- / 0.259	- / 0.265	- / 0.280	- / 1.843	- / 8.302	
Subtotal: Support	- / 20.910	- / 0.492	- / 0.390	- / 0.332	- / -	- / 0.332	- / 0.478	- / 0.535	- / 0.545	- / 0.576	- / 3.591	- / 27.849	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	99.437	0.618	0.630	0.597	0.000	0.597	0.592	0.672	0.685	0.700	4.431	108.362	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)	Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)		
Footnotes: (1) Install Equipment (B Kits) Cost increase in FY 2018 due to assembly of one ALQ-167v614B vice a conversion to DRFM configuration. Funding was realigned from "ILS" and "Other Support" in FY 2018 to Install Equipment to support configuration. Install Equipment (B Kits) Cost increase in FY 2019 is due to the re-programming of 13 pods and 20 Filthy Badger DRFMS that are not being funded by National Guard Reserve Equipment Authority (NGREA). Funding was realigned from "ILS" and "Other Support" in FY 2019 to Install Equipment to support configuration.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	287.733	9.822	10.075	8.932	0.000	8.932	8.967	10.084	10.289	10.498	95.952	452.352
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	287.733	9.822	10.075	8.932	0.000	8.932	8.967	10.084	10.289	10.498	95.952	452.352
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	287.733	9.822	10.075	8.932	0.000	8.932	8.967	10.084	10.289	10.498	95.952	452.352
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modifications to the following cargo and transport aircraft: C-40A, C-20G, C-37A, C-37B, C-26D, EC-26D, RC-26D, UC-35C, UC-35D, UC-12B, UC-12F, UC-12M, UC-12W, and RC-12M. The C-40A Clipper, C-20G Gulfstream IV, C-37A Gulfstream V, C-37 B Gulfstream 550, UC-35C Cessna Ultra, UC-35D Cessna Encore are commercial twin jet transport aircraft that provide time-critical medium lift logistic support for the fleet combatant commanders. The C-40A can accommodate 121 passengers, or 8 pallets of cargo, or a combination configuration of 3 pallets and 70 passengers with a range of 3,400 nautical miles. The C-20G can accommodate 26 passengers or all pallets of cargo, or a combination of pallets and passengers with a range of 5,130 nautical miles. The C-37 provides worldwide executive transport to Secretary of the Navy, Chief of Naval Operations, Commandant of the Marine Corps, and Fleet Commanders. The UC-35 provides transport for high priority passenger/cargo missions with time, place or mission sensitive requirements. The UC-35 can accommodate 6 passengers or 1,200 pounds of cargo with a range of 1,300 nautical miles. The C-12 King Air and C-26 Metro variants are commercial twin turbo-prop aircraft that provide shorter-range light lift passenger/cargo transport and range control missions. The C-12 is capable of carrying 6 passengers or maximum cargo capacity of 2,850 pounds, with a range of 1,075 nautical miles. The C-26 is capable of carrying 19 passengers 1,300 nautical miles. In FY15 - FY21 Block 3 aircraft modifications include Automatic Dependent Surveillance to DO260B standards, Data Link recording capability that is tied to the Cockpit Voice Recorder, Expansion of data link systems/services based on global operational data-link mandates, integration of AN/APX-119 IFF Mode 5 with new digital control panel, Performance based navigation (RNAV/RNP), weather radar integration, L5 GLS capabilities, SATCOM upgrades required to meet new Iridium or International Maritime Satellite (INMARSAT) requirements. To combat jamming of commercial navigation systems incorporate anti jamming GPS antenna systems with M-code. In FY22 - FY25 Block 4 aircraft modifications include Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, Continue with incorporation of anti jam and anti spoofing M-Code GPS to ensure secure transmission of accurate military signals, New Navigation GPS receivers to meet ARINC 743B standards, and New High Definition Displays that meet electronic terrain and obstacle data requirements.												
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023		
NR	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	9.822	10.075	8.932	-	8.932	8.967	10.084	10.289	10.498		
Total:	Quantity	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	9.822	10.075	8.932	-	8.932	8.967	10.084	10.289	10.498

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series			
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A									

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86) (SAFETY/RELIABILITY)				- / 22.483	- / 0.025	- / 0.025	- / 0.025	- / 0.000	- / 0.025
P-3a	2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04) (SAFETY/RELIABILITY)				- / 189.257	- / 8.836	- / 10.025	- / 8.882	- / 0.000	- / 8.882
P-3a	3 / Safety/Obsolescence Upgrades (013-16) (SAFETY/RELIABILITY)				- / 0.175	- / 0.961	- / 0.025	- / 0.025	- / 0.000	- / 0.025
P-3a	4 / RESERVE FORCES Inactive OSIPs (TBD)				- / 75.818	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 287.733	- / 9.822	- / 10.075	- / 8.932	- / 0.000	- / 8.932

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86) (SAFETY/RELIABILITY)				- / 0.025	- / 0.025	- / 0.025	- / 0.000	- / 0.000	- / 22.633
P-3a	2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04) (SAFETY/RELIABILITY)				- / 8.917	- / 10.059	- / 10.264	- / 10.498	- / 95.952	- / 352.690
P-3a	3 / Safety/Obsolescence Upgrades (013-16) (SAFETY/RELIABILITY)				- / 0.025	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1.211
P-3a	4 / RESERVE FORCES Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 75.818
P-40	Total Gross/Weapon System Cost				- / 8.967	- / 10.084	- / 10.289	- / 10.498	- / 95.952	- / 452.352

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 Basis for FY2019 budget request: provides funding to procure aircraft modifications for Communication, Navigation and Surveillance/Air Traffic Management (CNS/ATM) and Safety requirements for Cargo Transport Aircraft.

The FY 2019 funding request was reduced by \$0.114M to reflect the Department of Navy's effort to support the Office of management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series				Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	22.483	0.025	0.025	0.025	0.000	0.025	0.025	0.025	0.025	0.000	0.000	22.633
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	22.483	0.025	0.025	0.025	0.000	0.025	0.025	0.025	0.025	0.000	0.000	22.633
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	22.483	0.025	0.025	0.025	0.000	0.025	0.025	0.025	0.025	0.000	0.000	22.633
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Federal Aviation Regulations require manufacturers of commercial aircraft and associated systems/subsystems to investigate discrepant conditions, failures, and potential safety problems reported by all operators. The results of these investigations with recommended corrective action are reviewed/authorized by Federal Aviation Administration (FAA) designated representatives and provided to all operators as service bulletins. Each service bulletin is a complete technical directive that provides corrective change information or detailed modification instructions. To ensure safe, reliable, FAA/Navy certified aircraft and to provide a program that will assure continued life extension at minimum cost, the Navy must maintain configuration and integrity compatible with FAA certified commercial models by incorporation of applicable service bulletins. The incorporation of certain service bulletins also serves to preclude extensive repairs/repetitive inspections. Crew equipment requirements in accordance with FAA directives and/or Navy requirements will be incorporated to ensure maximum safety in case of emergency. Specific examples of systems that will require modification to conform to FAA Service Bulletins and Directives include Brakes, Landing Gear Systems, Flight Controls, Engine Modifications, Propeller Modifications, Airframe Modifications, Hydraulics, Electrical/Mechanical Systems & Components, Fuel Systems, Software Modifications/Upgrades, Fire Detection Systems, Interior Environmental Systems, Pressurization Systems, Oxygen Systems, Pilot-Static Systems and Smoke/Fire Detection Systems. Modifications budgeted in this Operational Safety and Improvement Program include the incorporation of Service Bulletins/Directives requirements into the C-40A, C-20G, C-37A, C-37B, C-26D, EC-26D, RC-26D, UC-35C, UC-12B, UC-12F, UC-12M, UC-12W and RC-12M aircraft.

Development Status/Major Development Milestones: Service Bulletins are reviewed for possible incorporation on an as required basis. Prototype verification has been previously accomplished and approved by the FAA.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series				Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CARGO TRANSPORT AC SERIES				Modification Type: SAFETY/RELIABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)													
A Kits													
Recurring													
1.1.1) Tech Directive Implementation - Organic	- / 0.275	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 0.425	
1.1.2) Archived Cost Elements - Organic	- / 17.478	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.478	
Subtotal: Recurring	- / 17.753	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.000	- / 17.903	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 2.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.832	
Subtotal: Non-Recurring	- / 2.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.832	
Subtotal: FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)	- / 20.585	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 20.735	
Subtotal: Procurement, All Modification Items	- / 20.585	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.000	- / 20.735	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 0.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.360	
3.2) Data	- / 0.293	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.293	
3.3) Training Equipment	- / 0.206	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.206	
3.5) ILS	- / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.016	
3.6) Other Support	- / 0.816	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.816	
3.7) Interim Contractor Support	- / 0.207	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.207	
Subtotal: Support	- / 1.898	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.898	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series						Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CARGO TRANSPORT AC SERIES				Modification Type: SAFETY/RELIABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total Cost (Procurement + Support + Installation)	22.483	0.025	0.025	0.025	0.000	0.025	0.025	0.025	0.025	0.000	0.000	22.633	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series				Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	189.257	8.836	10.025	8.882	0.000	8.882	8.917	10.059	10.264	10.498	95.952	352.690
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	189.257	8.836	10.025	8.882	0.000	8.882	8.917	10.059	10.264	10.498	95.952	352.690
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	189.257	8.836	10.025	8.882	0.000	8.882	8.917	10.059	10.264	10.498	95.952	352.690
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

World-wide airspace congestion and communication bandwidth saturation has led the International Civil Aviation Organization to restructure the world-wide airspace structure to improve safety through a series of equipment and performance mandates implemented by regional authorities. The Type/Models/Series cited below will be required to comply with Communication, Navigation and Surveillance - Air Traffic Management (CNS-ATM) mandates to retain the Navy's capability to operate these aircraft worldwide. Failure to comply with these time-phased mandates will result in being denied access to high-volume airspace (routing and altitudes) and airfields, and result in circuitous routing and sub optimal altitudes. Required modifications to meet these CNS-ATM mandates are being implemented on post production aircraft as capabilities listed in the third paragraph.

To minimize the impact of successive modifications and maximize aircraft availability, a block upgrade approach has been taken during this budget submit. Block upgrades have been prioritized and phased to meet regional mandates just in time to ensure that commercial CNS-ATM solutions are available off the shelf to minimize non-reoccurring engineering associated with Federal Aviation Administration supplemental type certification. In order to incorporate CNS-ATM mandates several older aircraft (C-35C, all C-26 and C-12) required the installation of a digital flight management and communication system.

CNS-ATM capabilities associated with each Block Upgrade are listed below:

C-40A: Block 3 - Upgrade SATCOM capability (Iridium or INMARSAT) and services to meet new I4 requirements; Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, Performance based navigation (RNAV/RNP), weather radar enhancement and L5 GLS Installs. Protected Mode and Baseline Controller Pilot Data Link Communication (PM-CPDLC) and Automatic Dependent Surveillance-Contract (ADS-C) datalink, and VHF Data Link Mode 2. Block 4 - Updated Display Electronic Unit to raise to current standard, Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, incorporation of anti jam and anti spoofing M-Code GPS to ensure secure transmission of accurate military signals, New Navigation GPS receivers to meet ARINC 743B standards, and New High Definition Displays that meet electronic terrain and obstacle data requirements.

C-37A/B: Block 3 - PM-CPDLC, ADS-C datalink, VHF Data Link Mode 2, SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, and RNAV/RNP. Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, L5 GLS Installs, AN/APX-119 IFF Mode 5 with new digital control panel, incorporation of anti jam and anti spoofing M-Code GPS to ensure secure transmission of accurate military signals, New Navigation GPS receivers to meet ARINC 743B standards, and New High Definition Displays that meet electronic terrain and obstacle data requirements.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
UC-35C: Block 3- Upgrade UNS-1Espw for Controller Pilot Data Link Communication (CPDLC) and ADS-C datalink, SATCOM capability (Iridium or INMARSAT) and services, Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, and RNAV/RNP. Block 4 - L5 GLS Installs and Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, New Navigation GPS receivers to meet ARINC 743B standards, and New High Definition Displays that meet electronic terrain and obstacle data requirements. UC-35D: Block 3 - Upgrade UNS-1Espw for CPDLC and ADS-C datalink and Dependent Surveillance to DO260B standards, Data Link recording enhancements, Aircraft Survivability Equipment Gen3, SATCOM capability (Iridium or INMARSAT) and services, AN/APX-119 IFF Mode 5 with new digital control panel, RNAV/RNP, weather integration and Anti-jamming GPS antenna and M code. Block 4 - L5 GLS Installs and Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, New Navigation GPS receivers to meet ARINC 743B standards and New High Definition Displays that meet electronic terrain and obstacle data requirements. EC/RC/UC-26D: Block 2 - Install Flight Management System Upgrade, Proline 21, Wide Area Augmentation System (WAAS), Traffic Collision Avoidance System (TCAS 7.1), and provisions for Addressing and Reporting System (ACARS), Air Traffic Service (ATS) Facilities Notification. Block 3 - CPDLC and ADS-C datalink, CMU, add VDL-2 and SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, AN/APX-119 IFF Mode 5 with new digital control panel, RNAV/RNP, and L5 GLS Installs. Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, New Navigation GPS receivers to meet ARINC 743B standards and New High Definition Displays that meet electronic terrain and obstacle data requirements. C-20G: Block 3 - SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, and RNAV/RNP. Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards and L5 GLS Installs, New Navigation GPS receivers to meet ARINC 743B standards and New High Definition Displays that meet electronic terrain and obstacle data requirements. C-12F/M: Block 3 - SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, and RNAV/RNP. Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards and L5 GLS Installs, New Navigation GPS receivers to meet ARINC 743B standards and New High Definition Displays that meet electronic terrain and obstacle data requirements. UC-12W: Block 3 - WAAS, SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, CPDLC and ADS-C Data Link, CMU, add VDL-2 , RNAV/RNP, L5 GLS Installs and Anti-jamming GPS antenna and M code. Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standard, New Navigation GPS receivers to meet ARINC 743B standards and New High Definition Displays that meet electronic terrain and obstacle data requirements.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series				Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CARGO TRANSPORT AC SERIES				Modification Type: SAFETY/RELIABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)													
A Kits													
Recurring													
1.1.1) Block 2 (C-26) - NonOrganic ⁽¹⁾	17 / 3.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 3.880	
1.1.2) Block 3 (C-40) - NonOrganic ⁽²⁾	13 / 1.036	8 / 1.350	4 / 0.800	18 / 4.087	- / -	18 / 4.087	10 / 2.424	2 / 0.300	- / -	- / -	6 / 1.531	61 / 11.528	
1.1.3) Block 3 (C-37) - NonOrganic ⁽³⁾	2 / 2.100	- / -	4 / 0.800	- / -	- / -	- / -	- / -	1 / 0.300	- / -	- / -	- / -	7 / 3.200	
1.1.4) Block 3 (UC-35) - NonOrganic ⁽⁴⁾	25 / 1.838	8 / 1.279	4 / 0.300	- / -	- / -	- / -	- / -	1 / 0.300	- / -	- / -	- / -	38 / 3.717	
1.1.5) Block 3 (C-26) - NonOrganic	1 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.650	- / -	- / -	- / -	2 / 0.750	
1.1.6) Block 3 (C-26) Radar A Kit - Organic ⁽⁵⁾	- / -	1 / 0.622	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.622	
1.1.7) Block 3 (C-20) - NonOrganic	5 / 1.150	- / -	5 / 1.166	3 / 0.030	- / -	3 / 0.030	- / -	1 / 0.300	- / -	- / -	- / -	14 / 2.646	
1.1.8) Block 3 (C-12) - NonOrganic ⁽⁶⁾	12 / 1.200	- / -	3 / 0.300	- / -	- / -	- / -	- / -	2 / 1.204	- / -	- / -	- / -	17 / 2.704	
1.1.9) Block 4 (C-40) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.880	4 / 1.280	9 / 1.094	18 / 5.254	
1.1.10) Block 4 (C-37) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.450	- / -	9 / 1.980	10 / 2.430	
1.1.11) Block 4 (UC-35) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.740	5 / 1.050	6 / 2.461	13 / 4.251	
1.1.12) Block 4 (C-26) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 4.830	13 / 4.830	
1.1.13) Block 4 (C-20) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.000	3 / 1.000	
1.1.14) Block 4 (C-12) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 6.180	21 / 6.180	
1.1.15) Archive Mods - Organic	- / 61.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 61.494	
Subtotal: Recurring	- / 72.798	- / 3.251	- / 3.366	- / 4.117	- / -	- / 4.117	- / 2.424	- / 3.054	- / 4.070	- / 2.330	- / 19.076	- / 114.486	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽⁷⁾	- / 33.849	- / -	- / 1.668	- / -	- / -	- / -	- / 2.105	- / 3.808	- / 2.170	- / -	- / 6.275	- / 49.875	
Subtotal: Non-Recurring	- / 33.849	- / -	- / 1.668	- / -	- / -	- / -	- / 2.105	- / 3.808	- / 2.170	- / -	- / 6.275	- / 49.875	
B Kits													
Recurring													
2.1.1) Archived Mods - Organic	- / 44.754	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.754	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series				Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CARGO TRANSPORT AC SERIES				Modification Type: SAFETY/RELIABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
2.1.2) Block 3 - Organic ⁽⁸⁾	13 / 2.802	9 / 1.725	25 / 1.904	- / -	- / -	- / -	10 / 1.821	7 / 1.169	- / -	- / -	6 / 1.167	70 / 10.588	
2.1.3) Block 4 - Organic	- / -	- / -	- / -	8 / 0.507	- / -	8 / 0.507	- / -	- / -	8 / 0.795	9 / 5.433	51 / 37.061	76 / 43.796	
<i>Subtotal: Recurring</i>	- / 47.556	- / 1.725	- / 1.904	- / 0.507	- / -	- / 0.507	- / 1.821	- / 1.169	- / 0.795	- / 5.433	- / 38.228	- / 99.138	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 3.994	- / -	- / -	- / 0.300	- / -	- / 0.300	- / -	- / -	- / 1.100	- / 0.500	- / 2.075	- / 7.969	
<i>Subtotal: Non-Recurring</i>	- / 3.994	- / -	- / -	- / 0.300	- / -	- / 0.300	- / -	- / -	- / 1.100	- / 0.500	- / 2.075	- / 7.969	
<i>Subtotal: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)</i>	88 / 158.197	26 / 4.976	45 / 6.938	29 / 4.924	- / -	29 / 4.924	20 / 6.350	15 / 8.031	16 / 8.135	18 / 8.263	124 / 65.654	381 / 271.468	
<i>Subtotal: Procurement, All Modification Items</i>	- / 158.197	- / 4.976	- / 6.938	- / 4.924	- / -	- / 4.924	- / 6.350	- / 8.031	- / 8.135	- / 8.263	- / 65.654	- / 271.468	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 0.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.160	
3.2) Data	- / 5.555	- / 0.291	- / 0.138	- / 0.120	- / -	- / 0.120	- / 0.138	- / 0.126	- / 0.210	- / 0.173	- / 2.633	- / 9.384	
3.3) Training Equipment ⁽⁹⁾	- / 1.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.320	- / 0.217	- / 2.061	- / 4.376	
3.4) Support Equipment	- / 0.626	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.061	- / 1.687	
3.5) ILS	- / 4.545	- / 0.015	- / 0.088	- / 0.100	- / -	- / 0.100	- / 0.124	- / 0.120	- / 0.330	- / 0.262	- / 2.243	- / 7.827	
3.6) Other Support	- / 11.320	- / 1.114	- / 0.330	- / 0.338	- / -	- / 0.338	- / 0.305	- / 0.232	- / 0.269	- / 0.243	- / 4.350	- / 18.501	
<i>Subtotal: Support</i>	- / 23.984	- / 1.420	- / 0.556	- / 0.558	- / -	- / 0.558	- / 0.567	- / 0.478	- / 1.129	- / 0.895	- / 12.348	- / 41.935	
Installation													
<i>Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)</i>	- / 7.076	- / 2.440	- / 2.531	- / 3.400	- / 0.000	- / 3.400	- / 2.000	- / 1.550	- / 1.000	- / 1.340	- / 17.950	- / 39.287	
<i>Subtotal: Installation</i>	- / 7.076	- / 2.440	- / 2.531	- / 3.400	- / -	- / 3.400	- / 2.000	- / 1.550	- / 1.000	- / 1.340	- / 17.950	- / 39.287	
Total													
Total Cost (Procurement + Support + Installation)	189.257	8.836	10.025	8.882	0.000	8.882	8.917	10.059	10.264	10.498	95.952	352.690	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series			Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)							
Manufacturer Information							
Manufacturer Name: Gulfstream-C-20				Manufacturer Location: Savannah, GA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017			Dec 2020		
Delivery Dates	Feb 2017	Feb 2018			Feb 2021		
Manufacturer Name: Various - C-40/C-9				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 1			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Manufacturer Name: L-3 Vertex - C-12				Manufacturer Location: Madison, Mississippi			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 1			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Dec 2017			Dec 2020		
Delivery Dates		Jan 2018			Jan 2021		
Manufacturer Name: M7 Aerospace C-26				Manufacturer Location: San Antonio, TX			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 1			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Dec 2020		
Delivery Dates					Jan 2021		
Manufacturer Name: Gulfstream-C-37				Manufacturer Location: Savannah, GA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Dec 2017			Dec 2020	Dec 2021	
Delivery Dates		Mar 2018			Mar 2021	Mar 2022	
Manufacturer Name: M7 Aerospace UC-35				Manufacturer Location: San Antonio, TX			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 1			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Manufacturer Information

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017			Dec 2020	Dec 2021	Dec 2022
Delivery Dates	Jan 2017	Jan 2018			Jan 2021	Jan 2022	Jan 2023

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-26

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	18 / 2.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 2.450
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.325	- / -	- / -	0 / 0.000	1 / 0.325
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.880	13 / 1.880
Total	18 / 2.450	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.325	- / -	- / -	13 / 1.880	32 / 4.655

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	13	32
Out	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	13	32

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-40A/C-9

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	13 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	13 / 0.600
FY 2017	- / -	8 / 0.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 0.950
FY 2018	- / -	- / -	4 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.800
FY 2019	- / -	- / -	- / -	18 / 3.000	0 / 0.000	18 / 3.000	- / -	- / -	- / -	- / -	0 / 0.000	18 / 3.000
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.000	- / -	- / -	- / -	0 / 0.000	10 / 2.000
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.400	- / -	- / -	0 / 0.000	2 / 0.400
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.625	- / -	0 / 0.000	5 / 0.625
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.890	0 / 0.000	4 / 0.890
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.450	15 / 3.450
Total	13 / 0.600	8 / 0.950	4 / 0.800	18 / 3.000	0 / 0.000	18 / 3.000	10 / 2.000	2 / 0.400	5 / 0.625	4 / 0.890	15 / 3.450	79 / 12.715

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	-	-	-	8	-	1	2	1	-	6	6	6	-	3	3	4	-	1	1	-	-	5	-	-	-	2	2	-	15	79
Out	13	-	-	-	8	-	1	2	1	-	6	6	6	-	3	3	4	-	1	1	-	-	5	-	-	-	2	2	-	15	79

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-37

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 1.100
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	4 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.225
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.125	- / -	- / -	0 / 0.000	1 / 0.125

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-37

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.125	- / -	0 / 0.000	1 / 0.125
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.180	9 / 2.180
Total	2 / 1.100	- / -	4 / 0.225	- / -	- / -	- / -	- / -	1 / 0.125	1 / 0.125	- / -	9 / 2.180	17 / 3.755

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	9	17	
Out	2	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	9	17	

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM UC-35

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	20 / 1.035	5 / 1.325	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 2.360
FY 2017	- / -	- / -	8 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 0.400
FY 2018	- / -	- / -	4 / 0.453	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.453
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.125	- / -	- / -	0 / 0.000	1 / 0.125
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.250	- / -	0 / 0.000	2 / 0.250
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.450	0 / 0.000	5 / 0.450
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 8.040	6 / 8.040
Total	20 / 1.035	5 / 1.325	12 / 0.853	- / -	- / -	- / -	- / -	1 / 0.125	2 / 0.250	5 / 0.450	6 / 8.040	51 / 12.078

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM UC-35

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	20	2	3	-	-	-	4	5	3	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	2	2	1	6	51
Out	20	2	3	-	-	-	4	5	3	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	2	2	1	6	51

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-20

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.550
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	5 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.500
FY 2019	- / -	- / -	- / -	3 / 0.400	0 / 0.000	3 / 0.400	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.400
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.125	- / -	- / -	0 / 0.000	1 / 0.125
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.450	3 / 0.450
Total	5 / 0.550	- / -	5 / 0.500	3 / 0.400	0 / 0.000	3 / 0.400	- / -	1 / 0.125	- / -	- / -	3 / 0.450	17 / 2.025

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	-	-	-	-	-	2	2	1	-	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	17
Out	5	-	-	-	-	-	2	2	1	-	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	17

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series										Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)													
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																		
Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)																																	
Installation Information																																	
Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-12																																	
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																				
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																			
Prior Years		8 / 1.341	4 / 0.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.506																				
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																				
FY 2018		- / -	- / -	3 / 0.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.153																				
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																				
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																				
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.450	- / -	- / -	0 / 0.000	2 / 0.450																				
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																				
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																				
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 1.950	21 / 1.950																				
Total		8 / 1.341	4 / 0.165	3 / 0.153	- / -	- / -	- / -	- / -	2 / 0.450	- / -	- / -	21 / 1.950	38 / 4.059																				
Installation Schedule																																	
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	8	-	4	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	21	38		
Out	8	-	4	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	21	38		
Method of Implementation (Organic): Block 3 (C-26) Radar A Kit																														Installation Quantity: 1			
Method of Implementation (Organic): Block 3 - Not Installed																														Installation Quantity: 70			
Method of Implementation (Organic): Block 4 - Not Installed																														Installation Quantity: 76			
Footnotes:																																	
⁽¹⁾ The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost based on the anticipated complexity of the block upgrade.																																	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(2) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost based on the anticipated complexity of the block upgrade. (3) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost based on the anticipated complexity of the block upgrade. (4) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost based on the anticipated complexity of the block upgrade. (5) Updated for actuals. (6) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost based on the anticipated complexity of the block upgrade. (7) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost based on the anticipated complexity of the block upgrade. (8) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost based on the anticipated complexity of the block upgrade. FY19 and FY 20 quantities reduced by 3. (9) The training equipment cost are based on the mandates that are required each year for each aircraft. The training equipment cost is based on the complexity of the block upgrade.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series				Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.175	0.961	0.025	0.025	0.000	0.025	0.025	0.000	0.000	0.000	0.000	1.211
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.175	0.961	0.025	0.025	0.000	0.025	0.025	0.000	0.000	0.000	0.000	1.211
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.175	0.961	0.025	0.025	0.000	0.025	0.025	0.000	0.000	0.000	0.000	1.211
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the following cargo and transport airlift aircraft: C-40A, C-20G, C-37A/B, UC-35C/D, C-26D, EC-26D, RC-26D, TC-12B, UC-12B/F/M/W,RC-12M. To ensure preservation of the airlift capabilities world-wide, this Safety, Reliability and Obsolescence Improvement OSIP provides funding to correct deficiencies that adversely affect aircraft safety, reliability and/or availability; specifically deficiencies that are not corrected through the existing FAA commercial service bulletin process because they are peculiar systems/equipment to the Navy. Navy peculiar aircraft systems include but are not limited to navigation systems, communication, survivability equipment, and cargo/passenger loading and carriage systems.

Modifications will support all readiness, obsolescent, and safety of flight improvements to existing Navy peculiar aircraft systems.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series					Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CARGO TRANSPORT AC SERIES					Modification Type: SAFETY/RELIABILITY					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> Safety/Obsolescence Upgrades (013-16)													
A Kits													
Recurring													
1.1.1) AirStair - Organic	1 / 0.025	- / -	1 / 0.025	1 / 0.025	- / -	1 / 0.025	1 / 0.025	- / -	- / -	- / -	- / -	4 / 0.100	
<i>Subtotal: Recurring</i>	<i>- / 0.025</i>	<i>- / -</i>	<i>- / 0.025</i>	<i>- / 0.025</i>	<i>- / -</i>	<i>- / 0.025</i>	<i>- / 0.025</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 0.100</i>	
Non-Recurring													
1.2.1) A Kit Non-Recurring - Organic	- / 0.150	3 / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.900	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.150</i>	<i>- / 0.750</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 0.900</i>	
<i>Subtotal: Safety/Obsolescence Upgrades (013-16)</i>	<i>1 / 0.175</i>	<i>3 / 0.750</i>	<i>1 / 0.025</i>	<i>1 / 0.025</i>	<i>- / -</i>	<i>1 / 0.025</i>	<i>1 / 0.025</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>7 / 1.000</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.175</i>	<i>- / 0.750</i>	<i>- / 0.025</i>	<i>- / 0.025</i>	<i>- / -</i>	<i>- / 0.025</i>	<i>- / 0.025</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 1.000</i>	
Support (All Modification Items)													
3.6) Other Support	- / -	- / 0.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.211	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / 0.211</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 0.211</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.175	0.961	0.025	0.025	0.000	0.025	0.025	0.000	0.000	0.000	0.000	1.211	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Safety/Obsolescence Upgrades (013-16)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series						Modification Number / Title: 4 / RESERVE FORCES Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	75.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	75.818
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	75.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	75.818
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	75.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	75.818
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series			Modification Number / Title: 4 / RESERVE FORCES Inactive OSIPs	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0564 / E-6 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: 0101402N				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,292.073	194.998	223.508	181.821	0.000	181.821	207.540	186.360	152.150	126.920	302.081	2,867.451
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,292.073	194.998	223.508	181.821	0.000	181.821	207.540	186.360	152.150	126.920	302.081	2,867.451
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,292.073	194.998	223.508	181.821	0.000	181.821	207.540	186.360	152.150	126.920	302.081	2,867.451
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modifications to the E-6 Mercury aircraft to improve mission capability and readiness. All sixteen (16) aircraft, unless otherwise noted in the E-6 fleet will receive each modification. The E-6 is a manned airborne communications platform designed to provide a survivable, enduring, and reliable airborne Command and Control Communications capability in support of the President, Secretary of Defense, and United States strategic and non-strategic forces. -Safety Deficiencies (OSIP 008-02) corrects high risk aircraft safety hazards to protect personnel and equipment enabling mission readiness. -Tech Insertion (OSIP 003-04) corrects aircraft obsolescence, supportability, weight management and interoperability deficiencies through new technology insertion enabling mission readiness and mandate compliance. -Service Life Extension Program (OSIP 003-07) extends the service life of the aircraft to 2038+ through airframe strengthening and structural data recording and analysis. -Communications Upgrade (OSIP 012-07) installs expanded aircraft digital communication paths and processing to improve airborne command post operations and modernizes direct over-the-horizon communications links to deployed strategic forces. -Block I (OSIP 008-10) corrects Airborne Command Post (ABNCP) operational test deficiencies to improve mission capability, readiness and legacy system obsolescence. -Multi-Role Tactical Common Data Link (OSIP 013-10) installs expanded aircraft communication bandwidth capability required to interoperate with United States Strategic Command's National Command and Control Architecture. -Auxiliary Power Unit (APU) (OSIP 002-12) corrects airborne command post operational test deficiencies by installing an improved APU to meet increased aircraft power requirements. -Family of Advanced Beyond-Line-of-Sight Terminals/Presidential and National Voice Conferencing (FAB-T/PNVC) (OSIP 014-14) replaces obsolete Military Strategic Tactical Relay terminals with improved FAB-T and replaces Secure Emergency Conferencing Network with PNVC.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0564 / E-6 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0101402N
Line Item MDAP/MAIS Code: N/A		
-Mission Systems (OSIP 011-18) corrects mission systems obsolescence, supportability, and interoperability deficiencies through technology insertion of commercial and government off the shelf (COTs/GOTs) systems.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0564 / E-6 Series					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: 0101402N				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Safety Deficiencies (OSIP 008-02) (Safety/Reliability/Improvements)				- / 81.274	- / 3.997	- / 5.607	- / 6.903	- / 0.000	- / 6.903
P-3a	2 / Tech Insertion (OSIP 003-04) (Capability and Reliability Improvements)				- / 107.402	- / 5.143	- / 11.330	- / 15.032	- / 0.000	- / 15.032
P-3a	3 / Service Life Extension Program (SLEP) (OSIP 003-07) (Life Extension)				- / 108.488	- / 11.881	- / 25.446	- / 13.210	- / 0.000	- / 13.210
P-3a	4 / Communications Upgrade (OSIP 012-07) (Capability Improvements)				- / 241.498	- / 37.197	- / 52.681	- / 64.593	- / 0.000	- / 64.593
P-3a	5 / Block I (OSIP 008-10) (Capability Improvements)				- / 466.259	- / 57.372	- / 21.899	- / 18.534	- / 0.000	- / 18.534
P-3a	6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10) (Capability Improvements)				- / 161.855	- / 34.015	- / 39.478	- / 23.223	- / 0.000	- / 23.223
P-3a	7 / Auxiliary Power Unit (APU) (OSIP 002-12) (Capability Improvements)				- / 40.053	- / 14.155	- / 19.488	- / 15.664	- / 0.000	- / 15.664
P-3a	8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14) (Capability and Reliability Improvements)				- / 54.228	- / 31.238	- / 47.579	- / 24.662	- / 0.000	- / 24.662
P-3a	9 / Mission Systems (OSIP 011-18) (Capability Improvements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	10 / Inactive OSIPS (Inactive)				- / 31.016	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,292.073	- / 194.998	- / 223.508	- / 181.821	- / 0.000	- / 181.821
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Safety Deficiencies (OSIP 008-02) (Safety/Reliability/Improvements)				- / 7.482	- / 6.776	- / 5.900	- / 5.837	- / 6.236	- / 130.012
P-3a	2 / Tech Insertion (OSIP 003-04) (Capability and Reliability Improvements)				- / 30.148	- / 31.269	- / 38.257	- / 61.243	- / 138.784	- / 438.608
P-3a	3 / Service Life Extension Program (SLEP) (OSIP 003-07) (Life Extension)				- / 10.141	- / 19.509	- / 19.902	- / 4.151	- / 8.652	- / 221.380
P-3a	4 / Communications Upgrade (OSIP 012-07) (Capability Improvements)				- / 43.792	- / 23.283	- / 28.860	- / 38.487	- / 40.988	- / 571.379
P-3a	5 / Block I (OSIP 008-10) (Capability Improvements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 564.064
P-3a	6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10) (Capability Improvements)				- / 62.417	- / 59.715	- / 30.812	- / 0.000	- / 0.000	- / 411.515
P-3a	7 / Auxiliary Power Unit (APU) (OSIP 002-12) (Capability Improvements)				- / 11.297	- / 11.468	- / 5.778	- / 0.000	- / 0.000	- / 117.903
P-3a	8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14) (Capability and Reliability Improvements)				- / 40.199	- / 31.664	- / 17.328	- / 0.000	- / 0.000	- / 246.898

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0564 / E-6 Series				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: 0101402N			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	9 / Mission Systems (OSIP 011-18) (Capability Improvements)				- / 2.064	- / 2.676	- / 5.313	- / 17.202	- / 107.421	- / 134.676
P-3a	10 / Inactive OSIPS (Inactive)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 31.016
P-40	Total Gross/Weapon System Cost				- / 207.540	- / 186.360	- / 152.150	- / 126.920	- / 302.081	- / 2,867.451
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The FY 2019 funding request was reduced by \$18.673 million to account for the availability of prior year execution balances. The FY 2019 funding request was reduced by \$1.129 million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.										

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	81.274	3.997	5.607	6.903	0.000	6.903	7.482	6.776	5.900	5.837	6.236	130.012
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	81.274	3.997	5.607	6.903	0.000	6.903	7.482	6.776	5.900	5.837	6.236	130.012
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	81.274	3.997	5.607	6.903	0.000	6.903	7.482	6.776	5.900	5.837	6.236	130.012
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The Operational Safety Improvement Program corrects safety hazards to protect personnel and equipment enabling mission readiness. The OSIP also addresses Federal agency directives, aging aircraft material condition, and emergent safety hazards generated by the operational environment. Modifications include, but not limited to: Fuel Quantity Indicator System (FQIS) modification, Kapton wiring replacement, and other safety deficiencies that require correction; i.e. Crash Survivable Flight Indicator Recorder System (CSFIRS). DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FQIS kit buys PY-FY20; installations in PY-FY21. Aircraft Kapton NRE PY to beyond FYDP, buys and installs in PY to beyond FYDP. Kapton Lower Lobe, Wings, Engine Struts, and Tail are included in Kapton replacement efforts.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series			Modification Type: Safety/Reliability/Improvements					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)													
A Kits													
Recurring													
1.1.1) Kapton Wings A Kits - NonOrganic		3 / 0.357	3 / 0.363	- / -	2 / 0.251	- / -	2 / 0.251	3 / 0.383	3 / 0.390	2 / 0.265	- / -	- / -	16 / 2.009
1.1.2) Kapton Engine Struts A Kits - NonOrganic		5 / 1.486	- / -	- / -	2 / 0.627	- / -	2 / 0.627	3 / 0.958	2 / 0.650	2 / 0.662	2 / 0.673	- / -	16 / 5.056
1.1.3) Kapton Lower Lobe A Kits - Organic ⁽¹⁾		2 / 0.338	- / -	3 / 0.525	4 / 0.713	- / -	4 / 0.713	2 / 0.363	4 / 0.739	1 / 0.188	- / -	- / -	16 / 2.866
1.1.4) Kapton Tail A Kits - NonOrganic		- / -	- / -	- / -	2 / 0.640	- / -	2 / 0.640	3 / 0.977	3 / 0.995	2 / 0.675	2 / 0.687	4 / 1.399	16 / 5.373
1.1.5) FQIS A Kits - Organic		11 / 0.397	- / -	3 / 0.132	2 / 0.090	- / -	2 / 0.090	- / -	- / -	- / -	- / -	- / -	16 / 0.619
1.1.6) Archived ECPs - Organic		112 / 17.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 17.803
Subtotal: Recurring		- / 20.381	- / 0.363	- / 0.657	- / 2.321	- / -	- / 2.321	- / 2.681	- / 2.774	- / 1.790	- / 1.360	- / 1.399	- / 33.726
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽²⁾		- / 23.721	- / 1.326	- / 2.326	- / 1.480	- / -	- / 1.480	- / 1.955	- / 1.446	- / 1.874	- / 1.912	- / 1.951	- / 37.991
Subtotal: Non-Recurring		- / 23.721	- / 1.326	- / 2.326	- / 1.480	- / -	- / 1.480	- / 1.955	- / 1.446	- / 1.874	- / 1.912	- / 1.951	- / 37.991
B Kits													
Recurring													
2.1.1) FQIS B Kits - NonOrganic		8 / 0.101	- / -	3 / 0.063	3 / 0.064	- / -	3 / 0.064	2 / 0.043	- / -	- / -	- / -	- / -	16 / 0.271
2.1.2) Archived ECPs - Organic		188 / 6.271	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	188 / 6.271
Subtotal: Recurring		- / 6.372	- / -	- / 0.063	- / 0.064	- / -	- / 0.064	- / 0.043	- / -	- / -	- / -	- / 0.000	- / 6.542
Non-Recurring													
2.2.1) Installation Equipment N/R - NonOrganic		- / 3.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.122
Subtotal: Non-Recurring		- / 3.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.122
Subtotal: Safety Deficiencies (OSIP 008-02)		329 / 53.596	3 / 1.689	9 / 3.046	15 / 3.865	- / -	15 / 3.865	13 / 4.679	12 / 4.220	7 / 3.664	4 / 3.272	4 / 3.350	396 / 81.381
Subtotal: Procurement, All Modification Items		- / 53.596	- / 1.689	- / 3.046	- / 3.865	- / -	- / 3.865	- / 4.679	- / 4.220	- / 3.664	- / 3.272	- / 3.350	- / 81.381
Support (All Modification Items)													
3.2) Data		- / 0.699	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.699
3.3) Training		- / 5.505	- / 0.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.587
3.4) Support Equipment		- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.045
3.5) ILS		- / 0.466	- / -	- / 0.053	- / 0.053	- / -	- / 0.053	- / 0.053	- / 0.053	- / 0.053	- / 0.053	- / 0.053	- / 0.837
3.6) Other Support ⁽³⁾		- / 19.644	- / 1.223	- / 1.419	- / 1.477	- / -	- / 1.477	- / 1.503	- / 1.528	- / 1.559	- / 1.591	- / 1.591	- / 31.535
Subtotal: Support		- / 26.359	- / 1.305	- / 1.472	- / 1.530	- / -	- / 1.530	- / 1.556	- / 1.581	- / 1.612	- / 1.644	- / 1.644	- / 38.703

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: Safety/Reliability/Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Installation													
<i>Modification Item 1 of 1:</i> Safety Deficiencies (OSIP 008-02)	- / 1.319	- / 1.003	- / 1.089	- / 1.508	- / 0.000	- / 1.508	- / 1.247	- / 0.975	- / 0.624	- / 0.921	- / 1.242	- / 9.928	
<i>Subtotal: Installation</i>	- / 1.319	- / 1.003	- / 1.089	- / 1.508	- / -	- / 1.508	- / 1.247	- / 0.975	- / 0.624	- / 0.921	- / 1.242	- / 9.928	
Total													
Total Cost (Procurement + Support + Installation)	81.274	3.997	5.607	6.903	0.000	6.903	7.482	6.776	5.900	5.837	6.236	130.012	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)												
Manufacturer Information												
Manufacturer Name: Kapton Tail/TBD							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 2							Production Leadtime (in Months): 6					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022					
Delivery Dates			May 2019	May 2020	May 2021	May 2022	May 2023					
Manufacturer Name: Kapton Struts/Grace Aerospace							Manufacturer Location: Long Island, NY					
Administrative Leadtime (in Months): 1							Production Leadtime (in Months): 7					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022					
Delivery Dates			May 2019	May 2020	May 2021	May 2022	May 2023					
Manufacturer Name: Kapton Wings/Grace Aerospace							Manufacturer Location: Long Island, NY					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 6					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Feb 2017		Dec 2018	Dec 2019	Dec 2021	Dec 2022						
Delivery Dates	Aug 2017		Jun 2019	Jun 2020	Jun 2022	Jun 2023						
Manufacturer Name: FQIS/EDN Aviation							Manufacturer Location: Van Nuys, CA					
Administrative Leadtime (in Months): 2							Production Leadtime (in Months): 7					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates		Nov 2017	Nov 2018	Nov 2019								
Delivery Dates		Jun 2018	Jun 2019	Jun 2020								
Installation Information												
Method of Implementation: Drive In:: Installation Name: Kapton Wings A Kits												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.120	1 / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.180
FY 2017	- / -	1 / 0.060	2 / 0.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.182
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	2 / 0.124	0 / 0.000	2 / 0.124	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.124
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.127	1 / 0.064	- / -	- / -	0 / 0.000	3 / 0.191

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: Kapton Wings A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.064	2 / 0.131	- / -	0 / 0.000	3 / 0.195																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.131	0 / 0.000	2 / 0.131																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		2 / 0.120	2 / 0.120	2 / 0.122	2 / 0.124	0 / 0.000	2 / 0.124	2 / 0.127	2 / 0.128	2 / 0.131	2 / 0.131	0 / 0.000	16 / 1.003																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	1	-	-	1	-	-	2	-	-	-	2	-	-	-	2	-	-	-	1	1	-	-	2	-	-	-	2	-	-	-
Out	-	-	-	1	1	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-
Method of Implementation: Drive In:: Installation Name: Kapton Engine Struts A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years		2 / 0.128	1 / 0.065	2 / 0.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.326																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	2 / 0.135	0 / 0.000	2 / 0.135	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.135																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.137	1 / 0.070	- / -	- / -	0 / 0.000	3 / 0.207																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.070	1 / 0.071	- / -	0 / 0.000	2 / 0.141																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.145	0 / 0.000	2 / 0.145																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.148	2 / 0.148																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		2 / 0.128	1 / 0.065	2 / 0.133	2 / 0.135	0 / 0.000	2 / 0.135	2 / 0.137	2 / 0.140	1 / 0.071	2 / 0.145	2 / 0.148	16 / 1.102																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0564 / E-6 Series											Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: Kapton Engine Struts A Kits																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	2	-	-	-	1	-	-	2	-	-	-	2	-	-	-	2	-	-	1	1	-	-	1	-	-	2	-	-	-	2	16
Out	-	-	-	1	1	-	-	1	-	-	2	-	-	-	2	-	-	1	1	-	-	2	-	-	-	1	-	-	1	3	16
Method of Implementation: Drive In:: Installation Name: Kapton Tail A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	2 / 0.400	0 / 0.000	2 / 0.400	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.400																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.407	1 / 0.207	- / -	- / -	0 / 0.000	3 / 0.614																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.207	2 / 0.422	- / -	0 / 0.000	3 / 0.629																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.430	0 / 0.000	2 / 0.430																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.215	1 / 0.219	2 / 0.434																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.875	4 / 0.875																		
Total		- / -	- / -	- / -	2 / 0.400	0 / 0.000	2 / 0.400	2 / 0.407	2 / 0.414	2 / 0.422	3 / 0.645	5 / 1.094	16 / 3.382																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	1	1	-	-	2	-	-	2	-	-	1	5	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	1	1	-	-	2	-	1	7	16	
Method of Implementation: Drive In:: Installation Name: FQIS B Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		4 / 1.071	3 / 0.818	1 / 0.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 2.167																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)																																							
Installation Information																																							
Method of Implementation: Drive In:: Installation Name: FQIS B Kits																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																								
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
FY 2018		- / -	- / -	2 / 0.556	1 / 0.283	0 / 0.000	1 / 0.283	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.839																									
FY 2019		- / -	- / -	- / -	2 / 0.566	0 / 0.000	2 / 0.566	1 / 0.288	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.854																									
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.288	1 / 0.293	- / -	- / -	- / -	0 / 0.000	2 / 0.581																									
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
Total		4 / 1.071	3 / 0.818	3 / 0.834	3 / 0.849	0 / 0.000	3 / 0.849	2 / 0.576	1 / 0.293	- / -	- / -	0 / 0.000	16 / 4.441																										
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	4	1	1	-	1	-	1	1	1	-	1	1	1	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	16								
Out	3	1	-	-	1	-	1	1	1	-	1	1	1	-	1	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	16								
Method of Implementation (Organic): Kapton Lower Lobe A Kits																														Installation Quantity: 16									
Method of Implementation (Organic): FQIS A Kits																														Installation Quantity: 16									
Method of Implementation (Organic): Archived ECPs																														Installation Quantity: 112									
Method of Implementation (Organic): Archived ECPs																														Installation Quantity: 188									
Footnotes:																																							
(1) Installation will occur as part of MR-TCDL (OSIP 013-10). Changed name of Radome to Lower Lobe to more accurately describe the location of the work being performed.																																							
(2) Installation Kit NRE in FY18-FY19 is for replacement of Kapton wiring in tail area and emergent safety modifications.																																							
(3) Other Support cost in FY19-FY23 is for continued support of emergent aircraft safety hazards and Kapton wiring replacement to enable mission readiness.																																							

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	107.402	5.143	11.330	15.032	0.000	15.032	30.148	31.269	38.257	61.243	138.784	438.608
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	107.402	5.143	11.330	15.032	0.000	15.032	30.148	31.269	38.257	61.243	138.784	438.608
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	107.402	5.143	11.330	15.032	0.000	15.032	30.148	31.269	38.257	61.243	138.784	438.608
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Technology Insertion corrects aircraft systems obsolescence, supportability, and interoperability deficiencies as well as providing weight savings initiatives through technology insertion of commercial and government off the shelf (COTs/GOTs) system integration onto the E-6B. Integration of already qualified airborne systems will be primary solution sets, but if required the ruggedization of the COTs/GOTs from land or water fielded systems may be pursued. Carbon Brakes integrates prior DoD-135/707 type brakes to the E-6B. Seats integrates DoD approved mission seats to meet E-6B crash load requirements. ADS-B Out integrates production COTs/GOTs to address civil navigation requirements by calendar year 2020. Cockpit Update (CU) integrates follow on Boeing 737 and P-8A hardware to address obsolescence and additional civil navigation requirements. Fuel Tank Sealant Upgrade (FTSU) will utilize new commercially proven processes and materials to correct fuel system leaks caused by age and operational hours. Aircraft (AC) Electrical will integrate updated technology to the aircraft power generation and distribution system to improve power quality and distribution, and reduce aircraft weight. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Carbon Brakes NRE and kit buys completed in PY; with installs in PY-FY21 based on fleet aircraft availability. Seats NRE and kit buys completed in PY; with installs in FY17-FY20 based on fleet aircraft availability. ADS-B Out NRE completed in PY and kit buys PY-FY17; with organic installs. CU CNS/ATM compliance evaluation NRE in FY22 and CU NRE in FY23. CU A-kit buys beyond FYDP; B kit buys beyond FYDP; with installs beyond FYDP. FTSU NRE in FY17-FY18; A-kit buys in FY19-FY23; with installs in FY19-FY23. Aircraft electrical NRE FY18-FY19; with A-kit buys FY21 to beyond FYDP; B-kit buys FY21 to beyond FYDP; with installs in FY21 to beyond FYDP. E-Told NRE FY17-FY18; with B-kit buys in FY18.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series			Modification Type: Capability and Reliability Improvements					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Tech Insertion (OSIP 003-04)													
A Kits													
Recurring													
1.1.1) Carbon Brakes A Kits - NonOrganic		16 / 6.463	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 6.463	
1.1.2) Seats A Kits - NonOrganic		16 / 8.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 8.640	
1.1.3) Cockpit Update A Kits - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.438	16 / 1.438	
1.1.4) Fuel Tank Sealant Upgrade A Kits - NonOrganic		- / -	- / -	- / -	3 / 0.857	- / -	3 / 0.857	6 / 1.714	5 / 1.457	1 / 0.297	1 / 0.303	16 / 4.628	
1.1.5) AC Electrical A Kits - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.088	3 / 1.108	6 / 2.296	4 / 1.614	16 / 6.106	
1.1.6) Archived ECPs - Organic		95 / 2.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 2.984	
1.1.7) PY Installs - Organic		94 / 3.614	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	94 / 3.614	
Subtotal: Recurring		- / 21.701	- / -	- / -	- / 0.857	- / -	- / 0.857	- / 1.714	- / 2.545	- / 1.405	- / 2.599	- / 33.873	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 20.330	- / 1.460	- / 3.725	- / 3.778	- / -	- / 3.778	- / 8.242	- / 0.373	- / 10.828	- / 22.944	- / 79.802	
Subtotal: Non-Recurring		- / 20.330	- / 1.460	- / 3.725	- / 3.778	- / -	- / 3.778	- / 8.242	- / 0.373	- / 10.828	- / 22.944	- / 79.802	
B Kits													
Recurring													
2.1.1) ADS-B OUT B Kits - Organic		1 / 0.020	15 / 0.312	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.332	
2.1.2) Cockpit Update B Kits - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 13.563	16 / 13.563	
2.1.3) AC Electrical B Kits - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.472	3 / 11.678	6 / 23.777	16 / 63.064	
2.1.4) E-Told B Kits - Organic		- / -	- / -	16 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.100	
2.1.5) Engine Covers - Organic		- / -	- / -	- / -	8 / 0.120	- / -	8 / 0.120	8 / 0.120	- / -	- / -	- / -	16 / 0.240	
2.1.6) Archived ECPs - Organic		144 / 14.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 14.505	
Subtotal: Recurring		- / 14.525	- / 0.312	- / 0.100	- / 0.120	- / -	- / 0.120	- / 0.120	- / 11.472	- / 11.678	- / 23.777	- / 91.804	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 3.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.468	
Subtotal: Non-Recurring		- / 3.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.468	
Subtotal: Tech Insertion (OSIP 003-04)		366 / 60.024	15 / 1.772	16 / 3.825	11 / 4.755	- / -	11 / 4.755	14 / 10.076	11 / 14.390	7 / 23.911	13 / 49.320	493 / 208.947	
Subtotal: Procurement, All Modification Items		- / 60.024	- / 1.772	- / 3.825	- / 4.755	- / -	- / 4.755	- / 10.076	- / 14.390	- / 23.911	- / 49.320	- / 208.947	
Support (All Modification Items)													
3.1) Engineering Change Orders		- / 0.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.462	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series						Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-6 Series				Modification Type: Capability and Reliability Improvements				Related RDT&E PEs:					

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.2) Data	- / 0.681	- / 0.146	- / 0.596	- / 0.557	- / -	- / 0.557	- / 0.694	- / 0.078	- / 0.082	- / 0.083	- / 0.086	- / 3.003
3.3) Training	- / 5.186	- / 0.819	- / 1.245	- / 1.300	- / -	- / 1.300	- / 4.169	- / 0.672	- / 1.442	- / -	- / 20.941	- / 35.774
3.4) Support Equipment	- / 0.063	- / -	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.118	- / 0.118	- / 0.118	- / 0.118	- / 0.835
3.5) ILS	- / 0.201	- / 0.635	- / 2.315	- / 1.682	- / -	- / 1.682	- / 1.732	- / 1.053	- / 1.189	- / 1.784	- / 1.578	- / 12.169
3.6) Other Support ⁽⁴⁾	- / 39.953	- / 1.378	- / 1.813	- / 1.757	- / -	- / 1.757	- / 1.702	- / 1.649	- / 1.852	- / 2.326	- / 11.932	- / 64.362
<i>Subtotal: Support</i>	- / 46.546	- / 2.978	- / 6.069	- / 5.396	- / -	- / 5.396	- / 8.397	- / 3.570	- / 4.683	- / 4.311	- / 34.655	- / 116.605
Installation												
<i>Modification Item 1 of 1:</i> Tech Insertion (OSIP 003-04)	- / 0.832	- / 0.393	- / 1.436	- / 4.881	- / 0.000	- / 4.881	- / 11.675	- / 13.309	- / 9.663	- / 7.612	- / 63.255	- / 113.056
<i>Subtotal: Installation</i>	- / 0.832	- / 0.393	- / 1.436	- / 4.881	- / -	- / 4.881	- / 11.675	- / 13.309	- / 9.663	- / 7.612	- / 63.255	- / 113.056
Total												
Total Cost (Procurement + Support + Installation)	107.402	5.143	11.330	15.032	0.000	15.032	30.148	31.269	38.257	61.243	138.784	438.608

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0564 / E-6 Series		Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: Tech Insertion (OSIP 003-04)							
Manufacturer Information							
Manufacturer Name: AC Electrical/TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Oct 2021	Oct 2022	Oct 2023
Delivery Dates					Apr 2022	Apr 2023	Apr 2024
Manufacturer Name: Fuel Tank Sealant Upgrade/PASI				Manufacturer Location: Dallas, TX			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates			Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Manufacturer Name: Cockpit Update/Boeing				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Seats/United Technology Corporation-Aerospace Systems				Manufacturer Location: Colorado Springs, CO			
Administrative Leadtime (<i>in Months</i>): 13				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Carbon Brakes/GA-SI				Manufacturer Location: Kaysville, UT			
Administrative Leadtime (<i>in Months</i>): 23				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Mission Suite Upgrade/TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Modification Item 1 of 1: Tech Insertion (OSIP 003-04)													
Manufacturer Information													
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Delivery Dates													
Manufacturer Name: ALCS/TBD							Manufacturer Location: TBD						
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Manufacturer Name: HF-ALE/TBD							Manufacturer Location: TBD						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates			Dec 2018	Jan 2020	Jan 2021	Jan 2022							
Delivery Dates			Dec 2019	Jan 2021	Jan 2022	Jan 2023							
Manufacturer Name: MOM/TBD							Manufacturer Location: TBD						
Administrative Leadtime (in Months): 10							Production Leadtime (in Months): 4						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates			Jul 2019	Aug 2020	Aug 2021	Aug 2022							
Delivery Dates			Nov 2019	Jan 2021	Jan 2022	Jan 2023							
Manufacturer Name: TBD							Manufacturer Location: TBD						
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Installation Information													
Method of Implementation: Drive In:: Installation Name: Carbon Brakes A Kits													
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	5 / 0.832	1 / 0.342	4 / 1.393	2 / 0.709	0 / 0.000	2 / 0.709	3 / 1.082	1 / 0.367	- / -	- / -	0 / 0.000	16 / 4.725	
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Tech Insertion (OSIP 003-04)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: Carbon Brakes A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
Total		5 / 0.832	1 / 0.342	4 / 1.393	2 / 0.709	0 / 0.000	2 / 0.709	3 / 1.082	1 / 0.367	- / -	- / -	0 / 0.000	16 / 4.725																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	-	-	-	1	-	1	1	2	-	1	1	-	1	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	5	-	-	-	-	1	-	1	1	2	-	1	1	-	1	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	16
Method of Implementation: Drive In:: Installation Name: Seats A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
Prior Years		- / -	6 / 0.051	5 / 0.043	3 / 0.026	0 / 0.000	3 / 0.026	2 / 0.018	- / -	- / -	- / -	0 / 0.000	16 / 0.138																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	6 / 0.051	5 / 0.043	3 / 0.026	0 / 0.000	3 / 0.026	2 / 0.018	- / -	- / -	- / -	0 / 0.000	16 / 0.138																		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)											
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: Tech Insertion (OSIP 003-04)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: Seats A Kits																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	1	1	4	-	1	1	3	-	1	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	-	-	1	1	4	-	1	1	3	-	1	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

Method of Implementation: Drive In:: Installation Name: Cockpit Update A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 44.855	16 / 44.855
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 44.855	16 / 44.855

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	16	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	16	

Method of Implementation: Drive In:: Installation Name: Fuel Tank Sealant Upgrade A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: Tech Insertion (OSIP 003-04)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: Fuel Tank Sealant Upgrade A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	2 / 4.146	0 / 0.000	2 / 4.146	1 / 2.115	- / -	- / -	- / -	0 / 0.000	3 / 6.261																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.460	2 / 4.314	- / -	- / -	0 / 0.000	6 / 12.774																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.628	1 / 2.200	- / -	0 / 0.000	5 / 10.828																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.200	- / -	0 / 0.000	1 / 2.200																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.244	0 / 0.000	1 / 2.244																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	2 / 4.146	0 / 0.000	2 / 4.146	5 / 10.575	6 / 12.942	2 / 4.400	1 / 2.244	0 / 0.000	16 / 34.307																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	3	-	2	1	3	-	1	1	-	-	-	1	-	-	-	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	-	3	2	-	1	3	1	-	1	-	-	-	1	16
Method of Implementation: Drive In:: Installation Name: AC Electrical A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.263	- / -	0 / 0.000	3 / 5.263																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.368	0 / 0.000	3 / 5.368																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 11.040	6 / 11.040																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 7.360	4 / 7.360																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.263	3 / 5.368	10 / 18.400	16 / 29.031																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0564 / E-6 Series											Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: Tech Insertion (OSIP 003-04)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: AC Electrical A Kits																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	2	1	10	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	13	16
Method of Implementation (Organic): Archived ECPs																							Installation Quantity: 95								
Method of Implementation (Organic): PY Installs																							Installation Quantity: 94								
Method of Implementation (Organic): ADS-B OUT B Kits																							Installation Quantity: 16								
Method of Implementation (Organic): Cockpit Update B Kits																							Installation Quantity: 16								
Method of Implementation (Organic): AC Electrical B Kits																							Installation Quantity: 16								
Method of Implementation (Organic): E-Told B Kits																							Installation Quantity: 16								
Method of Implementation (Organic): Engine Covers																							Installation Quantity: 16								
Method of Implementation (Organic): Archived ECPs																							Installation Quantity: 144								
Footnotes: ⁽⁴⁾ Other support in FY19 includes engineering and logistics support for engine covers and fuel tank sealant upgrade.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	108.488	11.881	25.446	13.210	0.000	13.210	10.141	19.509	19.902	4.151	8.652	221.380
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	108.488	11.881	25.446	13.210	0.000	13.210	10.141	19.509	19.902	4.151	8.652	221.380
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	108.488	11.881	25.446	13.210	0.000	13.210	10.141	19.509	19.902	4.151	8.652	221.380
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Service Life Extension Program (SLEP) extends the service life of the aircraft to 2038+ through airframe strengthening, structural data recording and analysis, and just in time modifications to prevent aircraft grounding due to fatigue. Modifications include, but not limited to: SLEP Phase 1; Individual Aircraft Tracking System (IATS); Crash Survivable Flight Incident Recorder System (CSFIRS) Phase 2; Runway Survey Analysis; and SLEP Phase 1B. IATS will integrate the data collected from already installed Digital Flight Data Acquisition Unit (DFDAU) to support the Aircraft Structural Integrity Program along with data collected from a representative sample of E-6Bs (3 aircraft) during a limited period of time. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: SLEP Phase 1 NRE completed in PY, installation kit Production buys in PY-FY18 with installs in PY-FY18. IATS NRE PY-FY18, kit buys and installs in FY17-FY19. SLEP Phase 1B NRE FY17-FY18, kit buys FY18-FY22, and installs FY18 to beyond FYDP; CSFIRS Phase 2 NRE FY18-FY19, kit buys in FY20-FY22 and installs FY20-FY22.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series						Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-6 Series				Modification Type: Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)													
A Kits													
Recurring													
1.1.1) SLEP Phase 1 A Kits - NonOrganic	14 / 11.250	1 / 0.981	1 / 1.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 13.241	
1.1.2) CSFIR Phase 2 A Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.407	7 / 2.906	8 / 3.388	- / -	- / -	16 / 6.701	
1.1.3) SLEP Phase 1B A Kits - NonOrganic	- / -	1 / 0.078	2 / 0.156	2 / 0.159	- / -	2 / 0.159	4 / 0.325	3 / 0.248	4 / 0.337	- / -	- / -	16 / 1.303	
1.1.4) IATS A Kits - NonOrganic ⁽⁵⁾	- / -	1 / 0.500	2 / 1.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.520	
Subtotal: Recurring	- / 11.250	- / 1.559	- / 2.186	- / 0.159	- / -	- / 0.159	- / 0.732	- / 3.154	- / 3.725	- / -	- / 0.000	- / 22.765	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽⁶⁾	- / 11.146	- / 4.165	- / 3.446	- / 1.575	- / -	- / 1.575	- / -	- / -	- / -	- / -	- / -	- / 20.332	
Subtotal: Non-Recurring	- / 11.146	- / 4.165	- / 3.446	- / 1.575	- / -	- / 1.575	- / -	- / -	- / -	- / -	- / 0.000	- / 20.332	
Subtotal: Service Life Extension Program (SLEP) (OSIP 003-07)	14 / 22.396	3 / 5.724	5 / 5.632	2 / 1.734	- / -	2 / 1.734	5 / 0.732	10 / 3.154	12 / 3.725	- / -	- / -	51 / 43.097	
Subtotal: Procurement, All Modification Items	- / 22.396	- / 5.724	- / 5.632	- / 1.734	- / -	- / 1.734	- / 0.732	- / 3.154	- / 3.725	- / -	- / 0.000	- / 43.097	
Support (All Modification Items)													
2.2) Data	- / 0.448	- / -	- / 0.490	- / 0.500	- / -	- / 0.500	- / 0.510	- / 0.521	- / -	- / -	- / -	- / 2.469	
2.4) Support Equipment	- / 0.794	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.794	
2.5) ILS	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.510	- / 0.520	- / -	- / -	- / -	- / 1.530	
2.6) Other Support ⁽⁷⁾	- / 15.212	- / 1.794	- / 1.821	- / 1.854	- / -	- / 1.854	- / 2.548	- / 2.553	- / 2.567	- / 2.704	- / 2.758	- / 33.811	
Subtotal: Support	- / 16.454	- / 1.794	- / 2.311	- / 2.854	- / -	- / 2.854	- / 3.568	- / 3.594	- / 2.567	- / 2.704	- / 2.758	- / 38.604	
Installation													
Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)	- / 69.638	- / 4.363	- / 17.503	- / 8.622	- / 0.000	- / 8.622	- / 3.855	- / 12.223	- / 13.610	- / 1.447	- / 5.894	- / 137.155	
Subtotal: Installation	- / 69.638	- / 4.363	- / 17.503	- / 8.622	- / -	- / 8.622	- / 3.855	- / 12.223	- / 13.610	- / 1.447	- / 5.894	- / 137.155	
Total													
Total Cost (Procurement + Support + Installation)	108.488	11.881	25.446	13.210	0.000	13.210	10.141	19.509	19.902	4.151	8.652	221.380	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)												
Manufacturer Information												
Manufacturer Name: CSFIR Phase 2/Teledyne						Manufacturer Location: El Segundo, CA						
Administrative Leadtime (in Months): 3						Production Leadtime (in Months): 6						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates				Dec 2019	Dec 2020	Dec 2021						
Delivery Dates				Jun 2020	Jun 2021	Jun 2022						
Manufacturer Name: SLEP Phase 1B/ALC Tinker						Manufacturer Location: Tinker Air Force Base, OK						
Administrative Leadtime (in Months): 3						Production Leadtime (in Months): 16						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021						
Delivery Dates	Jul 2018	Jul 2019	Jul 2020	Jul 2021	Jul 2022	Jul 2023						
Manufacturer Name: Boeing						Manufacturer Location: Seattle, WA						
Administrative Leadtime (in Months): 3						Production Leadtime (in Months): 6						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Dec 2016	Dec 2017										
Delivery Dates	Oct 2017	Jun 2018										
Manufacturer Name: SLEP Phase 1/ALC Tinker						Manufacturer Location: Tinker Air Force Base, OK						
Administrative Leadtime (in Months): 1						Production Leadtime (in Months): 3						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Oct 2016	Oct 2017										
Delivery Dates	Jan 2017	Jan 2018										
Installation Information												
Method of Implementation: Drive In:: Installation Name: SLEP Phase 1 A Kits												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	14 / 69.638	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	14 / 69.638
FY 2017	- / -	1 / 4.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 4.363
FY 2018	- / -	- / -	1 / 4.530	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 4.530
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)

Installation Information

Method of Implementation: Drive In:: Installation Name: SLEP Phase 1 A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	14 / 69.638	1 / 4.363	1 / 4.530	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	16 / 78.531

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	14	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	14	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

Method of Implementation: Drive In:: Installation Name: CSFIR Phase 2 A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.127	- / -	- / -	- / -	0 / 0.000	1 / 1.127
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 8.047	- / -	- / -	0 / 0.000	7 / 8.047
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 9.380	- / -	0 / 0.000	8 / 9.380
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.127	7 / 8.047	8 / 9.380	- / -	0 / 0.000	16 / 18.554

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)

Installation Information

Method of Implementation: Drive In:: Installation Name: CSFIR Phase 2 A Kits

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	4	3	-	-	4	4	-	-	-	-	-	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	4	3	-	-	4	4	-	-	-	-	16

Method of Implementation: Drive-In:: Installation Name: SLEP Phase 1B A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	1 / 1.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 1.311
FY 2018	- / -	- / -	- / -	2 / 2.674	0 / 0.000	2 / 2.674	- / -	- / -	- / -	- / -	0 / 0.000	2 / 2.674
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.728	- / -	- / -	- / -	0 / 0.000	2 / 2.728
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.176	1 / 1.392	- / -	0 / 0.000	4 / 5.568
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.838	1 / 1.447	0 / 0.000	3 / 4.285
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.894	4 / 5.894
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 1.311	2 / 2.674	0 / 0.000	2 / 2.674	2 / 2.728	3 / 4.176	3 / 4.230	1 / 1.447	4 / 5.894	16 / 22.460

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	2	-	-	-	3	-	-	1	2	-	-	1	-	4	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	2	-	-	-	3	-	-	1	2	5	16

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)

Installation Information

Method of Implementation: Drive In:: Installation Name: IATS A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	1 / 5.831	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 5.831
FY 2018	- / -	- / -	1 / 5.831	1 / 5.948	0 / 0.000	1 / 5.948	- / -	- / -	- / -	- / -	0 / 0.000	2 / 11.779
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 11.662	1 / 5.948	0 / 0.000	1 / 5.948	- / -	- / -	- / -	- / -	0 / 0.000	3 / 17.610

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

Footnotes:

- (5) IATS broken out from support line due to kit buys in FY17-FY18 and installs in FY18-FY19.
- (6) Non-Recurring Engineering funding in FY19 is for CSFIRs Phase 2 and SLEP Phase 1B.
- (7) Other support cost in FY19-FY23 is for engineering and logistics support for SLEP Phase 1B installation.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	241.498	37.197	52.681	64.593	0.000	64.593	43.792	23.283	28.860	38.487	40.988	571.379
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	241.498	37.197	52.681	64.593	0.000	64.593	43.792	23.283	28.860	38.487	40.988	571.379
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	241.498	37.197	52.681	64.593	0.000	64.593	43.792	23.283	28.860	38.487	40.988	571.379
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Installs expanded aircraft digital communication paths and processing to improve airborne command post operations and modernizes direct over-the-horizon communications links to deployed strategic forces. Internet Protocol (IP) connectivity and wideband communication capability to enable voice, video and data services is mission critical to command and control operations. Modifications include: IP Phase 1, International Marine/Maritime Satellite (INMARSAT); IP Phase 3, removal of Utility Trailing Wire Antenna (UTWA); Key Generator Receiver (KGR)-72; High Power Transmit Set (HPTS) Technology Upgrade , High Frequency Automatic Link Establishment (HF-ALE) replacement and integrate Commercial Wideband Satellite Communication (SATCOM) capability. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: IP Phase 1 production kit buys in PY-FY17 with installs in PY-FY19. IP Phase 3 aircraft production kit buys in PY-FY17 with installs in PY-FY19. IP Phases 1 and 3 installations will be completed concurrently with the Block I production program in PY-FY19. KGR-72 and HPTS Technology Upgrade NRE in FY17-FY20. KGR-72 production kit buys FY19-FY23 with production installs in FY19-FY23. HPTS Technology Upgrade production kit buys FY20 to beyond FYDP and installs FY21 to beyond the FYDP. HF-ALE NRE FY18-FY19. HF-ALE production kit buys FY19-FY23 and production installs in FY20 to beyond FYDP. Commercial Wideband SATCOM program modifies 16 aircraft. SATCOM NRE PY-FY17. SATCOM Production kit buys FY17-FY18, installs FY18-FY19.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)													
A Kits													
Recurring													
1.1.1) Phase 1 A Kit - NonOrganic ⁽⁸⁾	14 / 5.967	2 / 0.966	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 6.933	
1.1.2) Phase 3 A Kit - NonOrganic ⁽⁹⁾	14 / 8.202	2 / 1.396	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 9.598	
1.1.3) KGR-72 A Kit - NonOrganic ⁽¹⁰⁾	- / -	- / -	- / -	6 / 2.220	- / -	6 / 2.220	2 / 0.755	2 / 0.784	2 / 0.800	4 / 1.632	- / -	16 / 6.191	
1.1.4) HPTS A Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.575	1 / 0.587	2 / 1.196	6 / 3.660	6 / 3.733	16 / 9.751	
1.1.5) HF ALE - NonOrganic	- / -	- / -	- / -	6 / 3.720	- / -	6 / 3.720	3 / 1.897	2 / 1.290	2 / 1.316	3 / 2.013	- / -	16 / 10.236	
1.1.6) Wideband Satellite Communication (SATCOM) A Kits - NonOrganic	- / -	8 / 1.816	8 / 1.852	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.668	
1.1.7) Archived ECPs - Organic	19 / 7.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 7.796	
Subtotal: Recurring	- / 21.965	- / 4.178	- / 1.852	- / 5.940	- / -	- / 5.940	- / 3.227	- / 2.661	- / 3.312	- / 7.305	- / 3.733	- / 54.173	
Non-Recurring													
1.2.1) Installation Kit N/R - Organic ⁽¹¹⁾	- / 62.584	- / 8.472	- / 17.352	- / 25.191	- / -	- / 25.191	- / 11.591	- / -	- / -	- / -	- / -	- / 125.190	
Subtotal: Non-Recurring	- / 62.584	- / 8.472	- / 17.352	- / 25.191	- / -	- / 25.191	- / 11.591	- / -	- / -	- / -	- / 0.000	- / 125.190	
B Kits													
Recurring													
2.1.1) Phase 1 B Kits - Organic	14 / 8.474	2 / 1.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 9.924	
2.1.2) Phase 3 B Kits - Organic	14 / 11.431	2 / 2.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 13.525	
2.1.3) KGR-72 B Kits - Organic	- / -	- / -	- / -	6 / 3.102	- / -	6 / 3.102	2 / 1.055	2 / 1.076	2 / 1.097	4 / 2.239	- / -	16 / 8.569	
2.1.4) HPTS B Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.488	1 / 1.517	2 / 3.096	6 / 9.472	6 / 9.662	16 / 25.235	
2.1.5) HF ALE - Organic	- / -	- / -	- / -	6 / 3.102	- / -	6 / 3.102	3 / 1.582	2 / 1.076	2 / 1.119	3 / 1.712	- / -	16 / 8.591	
2.1.6) Wideband Satellite Communication (SATCOM) B Kits - Organic	- / -	8 / 7.416	8 / 7.564	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 14.980	
2.1.7) Archived ECPs - Organic	19 / 3.519	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 3.519	
Subtotal: Recurring	- / 23.424	- / 10.960	- / 7.564	- / 6.204	- / -	- / 6.204	- / 4.125	- / 3.669	- / 5.312	- / 13.423	- / 9.662	- / 84.343	
Subtotal: Communications Upgrade (OSIP 012-07)	94 / 107.973	24 / 23.610	16 / 26.768	24 / 37.335	- / -	24 / 37.335	12 / 18.943	10 / 6.330	12 / 8.624	26 / 20.728	12 / 13.395	230 / 263.706	
Subtotal: Procurement, All Modification Items	- / 107.973	- / 23.610	- / 26.768	- / 37.335	- / -	- / 37.335	- / 18.943	- / 6.330	- / 8.624	- / 20.728	- / 13.395	- / 263.706	
Support (All Modification Items)													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
3.2) Data	- / 2.987	- / 0.502	- / 0.525	- / 1.030	- / -	- / 1.030	- / 1.455	- / 0.540	- / 0.430	- / -	- / -	- / 7.469	
3.3) Training ⁽¹²⁾	- / 15.033	- / 1.571	- / 4.606	- / 5.646	- / -	- / 5.646	- / 6.327	- / 1.243	- / 5.073	- / 2.964	- / -	- / 42.463	
3.5) ILS	- / 3.967	- / 0.509	- / 0.819	- / 0.258	- / -	- / 0.258	- / 0.850	- / 0.508	- / 0.550	- / -	- / -	- / 7.461	
3.6) Other Support ⁽¹³⁾	- / 52.516	- / 2.015	- / 11.893	- / 6.160	- / -	- / 6.160	- / 6.288	- / 6.115	- / 6.750	- / 4.541	- / 4.643	- / 100.921	
<i>Subtotal: Support</i>	- / 74.503	- / 4.597	- / 17.843	- / 13.094	- / -	- / 13.094	- / 14.920	- / 8.406	- / 12.803	- / 7.505	- / 4.643	- / 158.314	
Installation													
<i>Modification Item 1 of 1:</i> Communications Upgrade (OSIP 012-07)	- / 59.022	- / 8.990	- / 8.070	- / 14.164	- / 0.000	- / 14.164	- / 9.929	- / 8.547	- / 7.433	- / 10.254	- / 22.950	- / 149.359	
<i>Subtotal: Installation</i>	- / 59.022	- / 8.990	- / 8.070	- / 14.164	- / -	- / 14.164	- / 9.929	- / 8.547	- / 7.433	- / 10.254	- / 22.950	- / 149.359	
Total													
Total Cost (Procurement + Support + Installation)	241.498	37.197	52.681	64.593	0.000	64.593	43.792	23.283	28.860	38.487	40.988	571.379	

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0564 / E-6 Series			Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)							
Manufacturer Information							
Manufacturer Name: Boeing				Manufacturer Location: Seattle, Wa			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 16			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016						
Delivery Dates	Mar 2018						
Manufacturer Name: Rockwell Collins -				Manufacturer Location: Cedar Rapids IA			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates			May 2019	May 2020	May 2021	May 2022	May 2023
Manufacturer Name: HF-ALE / TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates			Nov 2019	Nov 2020	Nov 2021	Nov 2022	Nov 2023
Manufacturer Name: HPTS / Rockwell Collins				Manufacturer Location: Cedar Rapids, IA			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 16			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates				Mar 2021	Mar 2022	Mar 2023	Mar 2024
Manufacturer Name: Phase 1/Boeing				Manufacturer Location: Seattle, WA			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 16			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016						
Delivery Dates	Mar 2018						
Manufacturer Name: Phase 3/Rockwell Collins				Manufacturer Location: Cedar Rapids, IA			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 16			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016						

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)													
Manufacturer Information													
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Delivery Dates	Mar 2018												
Manufacturer Name: CVLR / Rockwell Collins							Manufacturer Location: Cedar Rapids, IA						
Administrative Leadtime (<i>in Months</i>): 2							Production Leadtime (<i>in Months</i>): 6						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates			Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022						
Delivery Dates			May 2019	May 2020	May 2021	May 2022	May 2023						
Manufacturer Name: SATCOM / L-3							Manufacturer Location: Salt Lake City						
Administrative Leadtime (<i>in Months</i>): 6							Production Leadtime (<i>in Months</i>): 6						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	Sep 2017	Mar 2018											
Delivery Dates	Jan 2018	Sep 2018											
Installation Information													
Method of Implementation: Drive In:: Installation Name: Phase													
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	24 / 59.022	4 / 8.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	28 / 68.012	
FY 2017	- / -	- / -	2 / 4.660	2 / 4.754	0 / 0.000	2 / 4.754	- / -	- / -	- / -	- / -	0 / 0.000	4 / 9.414	
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total	24 / 59.022	4 / 8.990	2 / 4.660	2 / 4.754	0 / 0.000	2 / 4.754	- / -	- / -	- / -	- / -	0 / 0.000	32 / 77.426	

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0564 / E-6 Series											Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: Phase																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	24	2	-	-	2	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Out	22	2	-	-	2	-	2	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Method of Implementation: Drive In:: Installation Name: HF-ALE / KGR-72/HPTS																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	6 / 7.410	0 / 0.000	6 / 7.410	6 / 7.410	- / -	- / -	- / -	0 / 0.000	12 / 14.820																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.519	4 / 5.977	- / -	- / -	0 / 0.000	6 / 8.496																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.570	3 / 4.812	- / -	0 / 0.000	5 / 7.382																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.621	4 / 4.907	0 / 0.000	6 / 7.528																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.347	9 / 13.480	13 / 18.827																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 9.470	6 / 9.470																		
Total		- / -	- / -	- / -	6 / 7.410	0 / 0.000	6 / 7.410	8 / 9.929	6 / 8.547	5 / 7.433	8 / 10.254	15 / 22.950	48 / 66.523																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	3	3	1	2	3	2	1	2	2	1	1	2	1	1	1	2	2	3	15	48
Out	-	-	-	-	-	-	-	-	-	-	-	3	3	1	2	3	2	1	1	2	2	1	1	1	2	1	1	2	3	16	48

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)																																							
Installation Information																																							
Method of Implementation: Drive In:: Installation Name: Wideband Satellite Communication (SATCOM) A Kits																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																									
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2017		- / -	- / -	8 / 2.728	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 2.728																										
FY 2018		- / -	- / -	2 / 0.682	6 / 2.000	0 / 0.000	6 / 2.000	- / -	- / -	- / -	- / -	0 / 0.000	8 / 2.682																										
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
Total		- / -	- / -	10 / 3.410	6 / 2.000	0 / 0.000	6 / 2.000	- / -	- / -	- / -	- / -	0 / 0.000	16 / 5.410																										
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	-	3	3	4	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16								
Out	-	-	-	-	-	-	-	3	3	4	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16								
Method of Implementation (Organic): Archived ECPs																														Installation Quantity: 19									
Method of Implementation (Organic): Phase 1 B Kits																														Installation Quantity: 16									
Method of Implementation (Organic): Phase 3 B Kits																														Installation Quantity: 16									
Method of Implementation (Organic): KGR-72 B Kits																														Installation Quantity: 16									
Method of Implementation (Organic): HPTS B Kits																														Installation Quantity: 16									

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)		
Installation Information		
Method of Implementation (Organic): HF ALE		Installation Quantity: 16
Method of Implementation (Organic): Wideband Satellite Communication (SATCOM) B Kits		Installation Quantity: 16
Method of Implementation (Organic): Archived ECPs		Installation Quantity: 19
Footnotes: (8) Phase 1 installations are performed concurrently with Block I. Due to the addition of significant aircraft maintenance workload during Block I installations, the final Phase 1 install has moved from FY18 to FY19. (9) Phase 3 installations are performed concurrently with Block I. Due to the addition of significant aircraft maintenance workload during Block I installations, the final Phase 3 install has moved from FY18 to FY19. (10) Changed name of Common Very Low Frequency Receiver (CVLR) to KGR-72 to more accurately describe the effort. (11) FY18-FY19 NRE increases due to expanded scope of modifications driven by obsolescence. KGR-72 consists of two phases. First phase will field baseline configuration and 2nd phase will upgrade two modes. This drives the extended NRE period. (12) Training cost in FY19-FY23 includes funding for MAST and WST trainers, courseware material, initial instructor training and MAST install in support of Satellite Communications (SATCOM). Training cost in FY19-FY20 includes funding for various trainers/courseware in support of KGR-72, HPTS Technology Upgrade and HF-ALE. (13) Other support costs in FY19 supports IP Phase 1 and Phase 3 installation, which are conducted concurrently with Block I installation. In addition, other support cost in FY19 - FY23 supports non-recurring engineering, Installation Data Package validation and verification during associated installs, and attendant logistics / training support requirements for KGR-72, HPTS HF-ALE and Wideband Satellite Communications (SATCOM).		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 5 / Block I (OSIP 008-10)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	466.259	57.372	21.899	18.534	0.000	18.534	0.000	0.000	0.000	0.000	0.000	564.064
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	466.259	57.372	21.899	18.534	0.000	18.534	0.000	0.000	0.000	0.000	0.000	564.064
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	466.259	57.372	21.899	18.534	0.000	18.534	0.000	0.000	0.000	0.000	0.000	564.064
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Block I corrects Airborne Command Post (ABNCP) operational test deficiencies to improve mission capability, readiness and legacy system obsolescence. Modifications include, but not limited to: Block I; Very Low Frequency (VLF) Transmit Terminal (VTT); and Technology Upgrade including Block, and Workstations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Block I Systems Integration Lab (SIL) & aircraft (A/C) development kit installed in SIL FY06 and in A/C FY08; Milestone-C 3Q FY10; Low-Rate Initial Production (LRIP) contract award 3Q FY10; LRIP 1 kit buy in FY10 and 3 kit buys in FY11 with installs in FY11 and FY12 (4 A/C); Full-Rate Production (FRP) Decision Review achieved 2Q FY12. FRP kit buys PY-FY17 (11 A/C) with installs in PY-FY19. VTT Prototype SIL and A/C development kit delivery in FY11 with installation in FY12. SIL and A/C testing 2Q FY12 to 1Q FY13. VTT Production kit buys in PY-FY17 with installs in PY-FY19 (15 A/C).

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 5 / Block I (OSIP 008-10)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series			Modification Type: Capability Improvements					Related RDT&E PEs: 0101402N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Block I (OSIP 008-10)													
A Kits													
Recurring													
1.1.1) Block 1 A Kit - NonOrganic ⁽¹⁴⁾		13 / 49.621	2 / 8.214	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 57.835	
1.1.2) Tech Upgrade Block A Kits - NonOrganic ⁽¹⁵⁾		12 / 0.197	4 / 0.346	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.543	
1.1.3) Tech Upgrade Workstations A Kits - NonOrganic ⁽¹⁶⁾		12 / 2.764	4 / 1.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.084	
Subtotal: Recurring		- / 52.582	- / 9.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 62.462	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 62.145	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 62.145	
Subtotal: Non-Recurring		- / 62.145	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 62.145	
B Kits													
Recurring													
2.1.1) Block 1 B Kit - Organic		13 / 91.455	2 / 15.254	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 106.709	
2.1.2) Tech Upgrade Workstations B Kits - Organic		12 / 6.099	4 / 2.793	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 8.892	
2.1.3) VTT B Kits - NonOrganic ⁽¹⁷⁾		13 / 5.007	2 / 0.828	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 5.835	
Subtotal: Recurring		- / 102.561	- / 18.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 121.436	
Subtotal: Block I (OSIP 008-10)		75 / 217.288	18 / 28.755	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	93 / 246.043	
Subtotal: Procurement, All Modification Items		- / 217.288	- / 28.755	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 246.043	
Support (All Modification Items)													
3.1) Engineering Change Orders		- / 2.258	- / 0.774	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.032	
3.2) Data		- / 12.982	- / 2.423	- / 3.235	- / 3.230	- / -	- / 3.230	- / -	- / -	- / -	- / -	- / 21.870	
3.3) Training		- / 57.200	- / 0.441	- / 0.550	- / 0.213	- / -	- / 0.213	- / -	- / -	- / -	- / -	- / 58.404	
3.4) Support Equipment		- / 36.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.112	
3.5) ILS		- / 3.431	- / 0.471	- / 0.464	- / 0.464	- / -	- / 0.464	- / -	- / -	- / -	- / -	- / 4.830	
3.6) Other Support ⁽¹⁸⁾		- / 51.528	- / 8.510	- / 8.650	- / 5.900	- / -	- / 5.900	- / -	- / -	- / -	- / -	- / 74.588	
Subtotal: Support		- / 163.511	- / 12.619	- / 12.899	- / 9.807	- / -	- / 9.807	- / -	- / -	- / -	- / 0.000	- / 198.836	
Installation													
Modification Item 1 of 1: Block I (OSIP 008-10)		- / 85.460	- / 15.998	- / 9.000	- / 8.727	- / 0.000	- / 8.727	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 119.185	
Subtotal: Installation		- / 85.460	- / 15.998	- / 9.000	- / 8.727	- / -	- / 8.727	- / -	- / -	- / -	- / 0.000	- / 119.185	

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 5 / Block I (OSIP 008-10)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:							
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs: 0101402N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total													
Total Cost (Procurement + Support + Installation)		466.259	57.372	21.899	18.534	0.000	18.534	0.000	0.000	0.000	0.000	564.064	

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0564 / E-6 Series			Modification Number / Title: 5 / Block I (OSIP 008-10)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Block I (OSIP 008-10)							
Manufacturer Information							
Manufacturer Name: Block 1/Rockwell Collins ⁽¹⁹⁾					Manufacturer Location: Cedar Rapids, IA		
Administrative Leadtime <i>(in Months)</i> : 2					Production Leadtime <i>(in Months)</i> : 16		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016						
Delivery Dates	Mar 2018						
Manufacturer Name: Tech Upgrade Mission Computer/TBD					Manufacturer Location: TBD		
Administrative Leadtime <i>(in Months)</i> : 2					Production Leadtime <i>(in Months)</i> : 16		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: VTT/Rockwell Collins					Manufacturer Location: Cedar Rapids, IA		
Administrative Leadtime <i>(in Months)</i> : 2					Production Leadtime <i>(in Months)</i> : 16		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016						
Delivery Dates	Mar 2018						
Manufacturer Name: Tech Upgrade Workstation/Rockwell Collins					Manufacturer Location: Cedar Rapids, IA		
Administrative Leadtime <i>(in Months)</i> : 11					Production Leadtime <i>(in Months)</i> : 5		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Aug 2017						
Delivery Dates	Jan 2018						
Manufacturer Name: Tech Upgrade Block/Rockwell Collins					Manufacturer Location: Cedar Rapids, IA		
Administrative Leadtime <i>(in Months)</i> : 11					Production Leadtime <i>(in Months)</i> : 5		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Aug 2017						
Delivery Dates	Jan 2018						

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 5 / Block I (OSIP 008-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Block I (OSIP 008-10)

Installation Information

Method of Implementation: Contractor Drive In:: Installation Name: Block 1 A Kit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 79.834	2 / 12.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	13 / 92.788
FY 2017	- / -	- / -	1 / 7.889	1 / 8.047	0 / 0.000	1 / 8.047	- / -	- / -	- / -	- / -	0 / 0.000	2 / 15.936
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 79.834	2 / 12.954	1 / 7.889	1 / 8.047	0 / 0.000	1 / 8.047	- / -	- / -	- / -	- / -	0 / 0.000	15 / 108.724

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	11	1	-	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Out	10	1	-	-	1	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15

Method of Implementation: Contractor Drive In:: Installation Name: Tech Upgrade Block A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.424	10 / 1.135	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.559
FY 2017	- / -	- / -	3 / 0.348	1 / 0.117	0 / 0.000	1 / 0.117	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.465
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 5 / Block I (OSIP 008-10)									

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									

Modification Item 1 of 1: Block I (OSIP 008-10)																													

Installation Information

Method of Implementation: Contractor Drive In:: Installation Name: Tech Upgrade Block A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total	2 / 0.424	10 / 1.135	3 / 0.348	1 / 0.117	0 / 0.000	1 / 0.117	- / -	- / -	- / -	- / -	0 / 0.000	16 / 2.024

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	2	3	2	3	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	2	2	3	2	3	-	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

Method of Implementation: Drive In:: Installation Name: Tech Upgrade Workstations A Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.269	10 / 1.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.304
FY 2017	- / -	- / -	3 / 0.317	1 / 0.108	0 / 0.000	1 / 0.108	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.425
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.269	10 / 1.035	3 / 0.317	1 / 0.108	0 / 0.000	1 / 0.108	- / -	- / -	- / -	- / -	0 / 0.000	16 / 1.729

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	2	3	2	3	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	
Out	2	2	3	2	3	-	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 5 / Block I (OSIP 008-10)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: Block I (OSIP 008-10)																																							
Installation Information																																							
Method of Implementation: Drive In:: Installation Name: VTT B Kits																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																									
Prior Years		11 / 4.933	2 / 0.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	13 / 5.807																										
FY 2017		- / -	- / -	1 / 0.446	1 / 0.455	0 / 0.000	1 / 0.455	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.901																										
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																										
Total		11 / 4.933	2 / 0.874	1 / 0.446	1 / 0.455	0 / 0.000	1 / 0.455	- / -	- / -	- / -	- / -	0 / 0.000	15 / 6.708																										
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	11	1	-	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15								
Out	10	1	-	-	1	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15								
Method of Implementation (Organic): Block 1 B Kit																														Installation Quantity: 15									
Method of Implementation (Organic): Tech Upgrade Workstations B Kits																														Installation Quantity: 16									
Footnotes: ⁽¹⁴⁾ The quantity of 15 Block 1 A kit buys are procured with APN funding and 1 was procured and installed with RDT&E funding as the prototype for a total quantity of 16. ⁽¹⁵⁾ Technology Upgrade Block A kits quantity of 16 consists of 2 Prior year validation/verification kits, 10 retrofits and 4 forward fits. Technology Upgrade Block B kits are procured by the U.S. Air Force. ⁽¹⁶⁾ Technology Upgrade Workstation A kits quantity of 16 consists of 2 Prior year validation/verification kits, 10 retrofits and 4 forward fits. ⁽¹⁷⁾ The quantity of 15 VTT B kit buys are procured with APN funding and 1 was procured and installed with RDT&E funding prototype for a total quantity of 16. ⁽¹⁸⁾ Other Support cost in FY19 supports the install. ⁽¹⁹⁾ Due to the addition of significant aircraft maintenance workload during Block I installations, the final Block I install has moved from FY18 to FY19.																																							

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series						Modification Number / Title: 6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	161.855	34.015	39.478	23.223	0.000	23.223	62.417	59.715	30.812	0.000	0.000	411.515
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	161.855	34.015	39.478	23.223	0.000	23.223	62.417	59.715	30.812	0.000	0.000	411.515
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	161.855	34.015	39.478	23.223	0.000	23.223	62.417	59.715	30.812	0.000	0.000	411.515
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Multi-Role Tactical Common Data Link (MR-TCDL) is an Army program which developed production hardware that will be integrated into the E-6B aircraft. The E-6B MR-TCDL program performs the NRE to integrate MR-TCDL into the E-6B to support expanded aircraft communication bandwidth capability required to interoperate with United States Strategic Command's National Command and Control Architecture. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: E-6B MR-TCDL integration NRE PY-FY19. MR-TCDL Production A kit buys in PY-FY21 and B Kit buys in PY-FY21, with installs FY17-FY22.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)													
A Kits													
Recurring													
1.1.1) MR-TCDL A Kit - Organic	2 / 4.420	2 / 3.931	1 / 2.351	2 / 4.795	- / -	2 / 4.795	4 / 9.782	4 / 9.978	- / -	- / -	- / -	15 / 35.257	
Subtotal: Recurring	- / 4.420	- / 3.931	- / 2.351	- / 4.795	- / -	- / 4.795	- / 9.782	- / 9.978	- / -	- / -	- / 0.000	- / 35.257	
Non-Recurring													
1.2.1) Installation Kit N/R - Organic	- / 79.460	- / 8.857	- / 7.109	- / 1.087	- / -	- / 1.087	- / -	- / -	- / -	- / -	- / -	- / 96.513	
Subtotal: Non-Recurring	- / 79.460	- / 8.857	- / 7.109	- / 1.087	- / -	- / 1.087	- / -	- / -	- / -	- / -	- / 0.000	- / 96.513	
B Kits													
Recurring													
2.1.1) MR-TCDL Equipment B Kits - NonOrganic ⁽²⁰⁾	4 / 27.795	- / -	2 / 8.854	1 / 4.515	- / -	1 / 4.515	4 / 18.423	4 / 18.791	- / -	- / -	- / -	15 / 78.378	
Subtotal: Recurring	- / 27.795	- / -	- / 8.854	- / 4.515	- / -	- / 4.515	- / 18.423	- / 18.791	- / -	- / -	- / 0.000	- / 78.378	
Subtotal: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)	6 / 111.675	2 / 12.788	3 / 18.314	3 / 10.397	- / -	3 / 10.397	8 / 28.205	8 / 28.769	- / -	- / -	- / -	30 / 210.148	
Subtotal: Procurement, All Modification Items	- / 111.675	- / 12.788	- / 18.314	- / 10.397	- / -	- / 10.397	- / 28.205	- / 28.769	- / -	- / -	- / 0.000	- / 210.148	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 3.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.296	
3.2) Data	- / 5.024	- / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.041	
3.3) Training	- / 8.126	- / 5.647	- / 6.872	- / 0.474	- / -	- / 0.474	- / -	- / -	- / -	- / -	- / -	- / 21.119	
3.5) ILS	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.005	
3.6) Other Support ⁽²¹⁾	- / 33.729	- / 6.457	- / 6.266	- / 5.216	- / -	- / 5.216	- / 4.341	- / 1.188	- / 1.245	- / -	- / -	- / 58.442	
Subtotal: Support	- / 50.180	- / 12.121	- / 13.138	- / 5.690	- / -	- / 5.690	- / 4.341	- / 1.188	- / 1.245	- / -	- / 0.000	- / 87.903	
Installation													
Modification Item 1 of 1: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)	- / 0.000	- / 9.106	- / 8.026	- / 7.136	- / 0.000	- / 7.136	- / 29.871	- / 29.758	- / 29.567	- / 0.000	- / 0.000	- / 113.464	
Subtotal: Installation	- / 0.000	- / 9.106	- / 8.026	- / 7.136	- / -	- / 7.136	- / 29.871	- / 29.758	- / 29.567	- / -	- / 0.000	- / 113.464	
Total													
Total Cost (Procurement + Support + Installation)	161.855	34.015	39.478	23.223	0.000	23.223	62.417	59.715	30.812	0.000	0.000	411.515	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)																															
Manufacturer Information																															
Manufacturer Name: MR-TCDL B Kit Equipment/Northrop Grumman Systems Corp															Manufacturer Location: San Diego, CA																
Administrative Leadtime (in Months): 2															Production Leadtime (in Months): 21																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates						Nov 2017				Nov 2018				Nov 2019				Nov 2020													
Delivery Dates						Aug 2019				Aug 2020				Aug 2021				Aug 2022													
Installation Information																															
Method of Implementation: Drive In:: Installation Name: MR-TCDL Equipment B Kits																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -	1 / 9.106		1 / 8.026		1 / 7.136		0 / 0.000		1 / 7.136		1 / 7.468		- / -		- / -		- / -		0 / 0.000		4 / 31.736								
FY 2017		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2018		- / -	- / -		- / -		- / -		- / -		- / -		2 / 14.935		- / -		- / -		- / -		0 / 0.000		2 / 14.935								
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		1 / 7.468		- / -		- / -		- / -		0 / 0.000		1 / 7.468								
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		4 / 29.758		- / -		- / -		0 / 0.000		4 / 29.758								
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 29.567		- / -		0 / 0.000		4 / 29.567								
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
Total		- / -	1 / 9.106		1 / 8.026		1 / 7.136		0 / 0.000		1 / 7.136		4 / 29.871		4 / 29.758		4 / 29.567		- / -		0 / 0.000		15 / 113.464								
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	1	-	-	-	1	-	1	-	-	-	3	-	1	-	-	-	4	-	-	-	4	-	-	-	-	-	15
Out	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-	-	3	-	-	1	-	-	4	-	-	-	4	-	-	-	15
Method of Implementation (Organic): MR-TCDL A Kit																															
																				Installation Quantity: 15											
Footnotes:																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(20) MR-TCDL FY19-FY22 installation schedule delays due to test aircraft and maintenance readiness issues unrelated to the modifications. (21) Other Support cost in FY19-FY22 supports the installs.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series						Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	40.053	14.155	19.488	15.664	0.000	15.664	11.297	11.468	5.778	0.000	0.000	117.903
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	40.053	14.155	19.488	15.664	0.000	15.664	11.297	11.468	5.778	0.000	0.000	117.903
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	40.053	14.155	19.488	15.664	0.000	15.664	11.297	11.468	5.778	0.000	0.000	117.903
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The Auxiliary Power Unit (APU) incorporates safety, capacity and life-limiting propulsion and power corrective actions to resolve safety and readiness concerns. Corrections to design deficiencies found during post production test and evaluation and discovered during fleet operations that have resulted in safety and reliability degradation that must be corrected. The requirement to upgrade or modify the APU is critical in maintaining sustainable fleet reliability, safety, and performance and is necessary to meet established mission requirements. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: APU NRE PY-FY18, APU Kit buys PY-FY19; installations FY17-FY22.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Auxiliary Power Unit (APU) (OSIP 002-12)													
A Kits													
Recurring													
1.1.1) APU A Kit - NonOrganic ⁽²²⁾													
Subtotal: Recurring													
Non-Recurring													
1.2.1) Installation Kits N/R - Organic													
Subtotal: Non-Recurring													
B Kits													
Recurring													
2.1.1) APU Equipment B Kit - Organic													
2.1.2) APU Generator B kit - Organic													
Subtotal: Recurring													
Subtotal: Auxiliary Power Unit (APU) (OSIP 002-12)													
Subtotal: Procurement, All Modification Items													
Support (All Modification Items)													
3.1) Engineering Change Orders													
3.2) Data													
3.3) Training													
3.4) Support Equipment													
3.5) ILS													
3.6) Other Support ⁽²³⁾													
Subtotal: Support													
Installation													
Modification Item 1 of 1: Auxiliary Power Unit (APU) (OSIP 002-12)													
Subtotal: Installation													
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Auxiliary Power Unit (APU) (OSIP 002-12)																															
Manufacturer Information																															
Manufacturer Name: APU A Kit/L-3															Manufacturer Location: Waco, TX																
Administrative Leadtime (in Months): 10															Production Leadtime (in Months): 56																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Jul 2017				Jul 2018				Jul 2019																					
Delivery Dates		Mar 2020				Mar 2023				Mar 2024																					
Installation Information																															
Method of Implementation: Drive In:: Installation Name: APU A Kit																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		1 / 2.272		1 / 2.317		3 / 7.091		0 / 0.000		3 / 7.091		- / -		- / -		- / -		- / -		0 / 0.000		5 / 11.680							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		4 / 9.644		- / -		- / -		- / -		0 / 0.000		4 / 9.644							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 9.837		- / -		- / -		0 / 0.000		4 / 9.837							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 5.017		- / -		0 / 0.000		2 / 5.017							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		1 / 2.272		1 / 2.317		3 / 7.091		0 / 0.000		3 / 7.091		4 / 9.644		4 / 9.837		2 / 5.017		- / -		0 / 0.000		15 / 36.178							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	1	-	-	-	1	-	1	-	2	-	2	-	2	-	2	-	2	-	1	-	1	-	-	-	-	-	15
Out	-	-	-	-	-	-	1	-	-	-	1	-	1	-	2	-	2	-	2	-	2	-	2	-	1	-	1	-	-	-	15
Method of Implementation (Organic): APU Equipment B Kit																				Installation Quantity: 15											
Method of Implementation (Organic): APU Generator B kit																				Installation Quantity: 15											

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: (22) APU FY19-FY22 installation schedule delays due to test aircraft and maintenance readiness issues unrelated to the modifications. (23) Other support cost in FY19-FY22 is for engineering and logistics support for APU installation.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/ PNVC)(OSIP 014-14)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	54.228	31.238	47.579	24.662	0.000	24.662	40.199	31.664	17.328	0.000	0.000	246.898
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	54.228	31.238	47.579	24.662	0.000	24.662	40.199	31.664	17.328	0.000	0.000	246.898
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	54.228	31.238	47.579	24.662	0.000	24.662	40.199	31.664	17.328	0.000	0.000	246.898
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Family of Advanced Beyond-Line-of-Sight Terminals (FAB-T) and Presidential and National Voice Conferencing (PNVC) are U.S. Air Force programs of record and will be providing production hardware to the E-6B for integration into the aircraft. These systems are an obsolescence replacement for the currently installed Military Strategic Tactical Relay terminals (MILSTAR). E-6B integration NRE for FAB-T and PNVC includes Red Switch (RS) integration, which is required for PNVC capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FAB-T/PNVC/RS NRE in PY-FY19. FAB-T A kit buys in PY-FY21; with installs in FY17-FY22. PNVC A kit buys in PY-FY21; B kit buys in FY18-FY20; with installs in FY17-FY22. RS A kit buys in PY-FY21; B kit buys in PY-FY21; with installs in FY17-FY22. Enterprise-wide follow-on test and evaluation in FY19-FY20.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'I Voice Conf (FAB-T/PNVC)(OSIP 014-14)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series			Modification Type: Capability and Reliability Improvements					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'I Voice Conf (FAB-T/PNVC)(OSIP 014-14)													
A Kits													
Recurring													
1.1.1) FAB-T A Kit - NonOrganic ⁽²⁴⁾	1 / 0.493	1 / 0.493	4 / 1.970	2 / 0.985	- / -	2 / 0.985	4 / 1.970	4 / 1.970	- / -	- / -	- / -	16 / 7.881	
1.1.2) PNVC A Kit - NonOrganic	1 / 0.038	1 / 0.039	4 / 0.159	2 / 0.081	- / -	2 / 0.081	4 / 0.165	4 / 0.168	- / -	- / -	- / -	16 / 0.650	
1.1.3) RS A KIT - Organic	1 / 2.402	1 / 1.399	4 / 7.130	2 / 3.574	- / -	2 / 3.574	4 / 10.277	4 / 10.454	- / -	- / -	- / -	16 / 35.236	
Subtotal: Recurring	- / 2.933	- / 1.931	- / 9.259	- / 4.640	- / -	- / 4.640	- / 12.412	- / 12.592	- / -	- / -	- / 0.000	- / 43.767	
Non-Recurring													
1.2.1) Install Kits N/R - Organic ⁽²⁵⁾	- / 22.467	- / 13.476	- / 5.956	- / 0.596	- / -	- / 0.596	- / -	- / -	- / -	- / -	- / -	- / 42.495	
Subtotal: Non-Recurring	- / 22.467	- / 13.476	- / 5.956	- / 0.596	- / -	- / 0.596	- / -	- / -	- / -	- / -	- / 0.000	- / 42.495	
B Kits													
Recurring													
2.1.2) PNVC B Kit - Organic	- / -	- / -	8 / 2.117	6 / 1.619	- / -	6 / 1.619	2 / 0.551	- / -	- / -	- / -	- / -	16 / 4.287	
2.1.3) RS B KIT - NonOrganic	1 / 0.467	1 / 0.360	4 / 5.205	2 / 3.209	- / -	2 / 3.209	4 / 6.546	4 / 6.677	- / -	- / -	- / -	16 / 22.464	
Subtotal: Recurring	- / 0.467	- / 0.360	- / 7.322	- / 4.828	- / -	- / 4.828	- / 7.097	- / 6.677	- / -	- / -	- / 0.000	- / 26.751	
Subtotal: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'I Voice Conf (FAB-T/PNVC)(OSIP 014-14)	4 / 25.867	4 / 15.767	24 / 22.537	14 / 10.064	- / -	14 / 10.064	18 / 19.509	16 / 19.269	- / -	- / -	- / -	80 / 113.013	
Subtotal: Procurement, All Modification Items	- / 25.867	- / 15.767	- / 22.537	- / 10.064	- / -	- / 10.064	- / 19.509	- / 19.269	- / -	- / -	- / 0.000	- / 113.013	
Support (All Modification Items)													
3.1) Engineering Change Order	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	
3.2) Data	- / 1.497	- / 1.493	- / 0.966	- / 0.647	- / -	- / 0.647	- / 0.795	- / 0.386	- / 0.977	- / -	- / -	- / 6.761	
3.3) Training ⁽²⁶⁾	- / 8.263	- / 1.997	- / 9.931	- / 3.480	- / -	- / 3.480	- / 0.720	- / -	- / -	- / -	- / -	- / 24.391	
3.4) Support Equipment	- / 0.010	- / 0.183	- / 4.790	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.983	
3.6) Engineering ⁽²⁷⁾	- / -	- / 2.001	- / 2.007	- / 4.097	- / -	- / 4.097	- / 6.180	- / 0.752	- / 4.000	- / -	- / -	- / 19.037	
3.7) Other Support ⁽²⁸⁾	- / 18.491	- / 8.773	- / 6.302	- / 4.241	- / -	- / 4.241	- / 3.343	- / 1.420	- / 2.317	- / -	- / -	- / 44.887	
Subtotal: Support	- / 28.361	- / 14.447	- / 23.996	- / 12.465	- / -	- / 12.465	- / 11.038	- / 2.558	- / 7.294	- / -	- / 0.000	- / 100.159	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: E-6 Series				Modification Type: Capability and Reliability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Installation													
Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)	- / 0.000	- / 1.024	- / 1.046	- / 2.133	- / 0.000	- / 2.133	- / 9.652	- / 9.837	- / 10.034	- / 0.000	- / 0.000	- / 33.726	
<i>Subtotal: Installation</i>	- / 0.000	- / 1.024	- / 1.046	- / 2.133	- / -	- / 2.133	- / 9.652	- / 9.837	- / 10.034	- / -	- / 0.000	- / 33.726	
Total													
Total Cost (Procurement + Support + Installation)	54.228	31.238	47.579	24.662	0.000	24.662	40.199	31.664	17.328	0.000	0.000	246.898	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)																															
Manufacturer Information																															
Manufacturer Name: Various															Manufacturer Location: Various																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 15																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Dec 2016				Dec 2017				Dec 2018				Dec 2019				Dec 2020													
Delivery Dates		Jul 2018				Mar 2019				Mar 2020				Mar 2021				Mar 2022													
Installation Information																															
Method of Implementation: Drive In Modification:: Installation Name: FAB-T, PNVC & RS Kit/Multiple																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		3 / 1.024		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		3 / 1.024							
FY 2017		- / -		- / -		3 / 1.046		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		3 / 1.046							
FY 2018		- / -		- / -		- / -		6 / 2.133		0 / 0.000		6 / 2.133		6 / 4.826		- / -		- / -		- / -		0 / 0.000		12 / 6.959							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		6 / 4.826		- / -		- / -		- / -		0 / 0.000		6 / 4.826							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		12 / 9.837		- / -		- / -		0 / 0.000		12 / 9.837							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		12 / 10.034		- / -		0 / 0.000		12 / 10.034							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		3 / 1.024		3 / 1.046		6 / 2.133		0 / 0.000		6 / 2.133		12 / 9.652		12 / 9.837		12 / 10.034		- / -		0 / 0.000		48 / 33.726							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	3	-	-	-	3	-	6	-	-	-	6	-	6	-	6	-	6	-	6	-	6	-	-	-	-	-	48
Out	-	-	-	-	-	-	-	-	3	-	-	3	6	-	-	-	6	-	6	-	6	-	6	-	6	-	6	-	-	-	48
Method of Implementation (Organic): RS A KIT																															
																				Installation Quantity: 16											

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)		
Installation Information		
Method of Implementation (Organic): PNVC B Kit		Installation Quantity: 16
Footnotes: (24) FAB-T B Kits are procured by the United States Air Force. (25) Non-Recurring Engineering in PY-FY19 is for the validation and verification of the NRE test aircraft including PNVC (Airborne). (26) Training in FY18 & FY19 for MAST kit buys with installations in FY19 & FY20; formal courseware scheduled for FY18; and in FY19 for differences training courseware. (27) FY18-FY22 engineering support for the kit development. FY17-FY22 engineering support for software engineering upgrades and implementation. (28) Other Support costs in FY19 includes engineering and logistics support for production, installation, and specialized enterprise-wide flight follow-on test and evaluation. Other Support costs in FY20-FY22 includes engineering and logistics support for production and installation.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 9 / Mission Systems (OSIP 011-18)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	2.064	2.676	5.313	17.202	107.421	134.676
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	2.064	2.676	5.313	17.202	107.421	134.676
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	2.064	2.676	5.313	17.202	107.421	134.676
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Mission Systems corrects mission systems obsolescence, supportability, and interoperability deficiencies through technology insertion of commercial and government off the shelf (COTs/GOTs) system integration onto the E-6B. Integration of already qualified airborne systems will be primary solution sets, but if required the ruggedization of the COTs/GOTs from land or water fielded systems may be pursued. Mission Operations Monitor (MOM) will update already installed E-6B systems with the ability to monitor and record critical parameters to ensure mission accomplishment and provide for accurate and timely post mission evaluations. Additional hardware for more robust monitoring may be added to the aircraft. Airborne Launch Control System-Replacement (ALCS-R) will integrate an Air Force procured system onto the E-6B to replace the current ALCS which is going obsolete. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MOM NRE in FY23 to beyond FYDP. MOM A kit buys beyond FYDP. B kit buys beyond FYDP; with installs beyond FYDP. ALCS-R NRE in FY20-FY23. ALCS-R A kit buys in FY22 to beyond FYDP; B kit buys in FY22 to beyond FYDP; with installs in FY23 to beyond FYDP.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 9 / Mission Systems (OSIP 011-18)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 1: Mission Systems (OSIP 011-18)													
A Kits													
Recurring													
1.1.1) MOM A Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.849	13 / 4.134	16 / 4.983	
1.1.2) ALCS-R A Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.133	5 / 0.676	10 / 1.393	16 / 2.202	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.133	- / 1.525	- / 5.527	- / 7.185	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.498	- / 1.808	- / 3.975	- / 3.523	- / 25.259	- / 36.063	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.498	- / 1.808	- / 3.975	- / 3.523	- / 25.259	- / 36.063	
B Kits													
Recurring													
2.1.1) ALCS-R B Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.322	5 / 1.644	10 / 3.387	16 / 5.353	
2.1.2) MOM B Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 9.372	13 / 45.638	16 / 55.010	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.322	- / 11.016	- / 49.025	- / 60.363	
Subtotal: Mission Systems (OSIP 011-18)	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.498	- / 1.808	2 / 4.430	16 / 16.064	46 / 79.811	64 / 103.611	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.498	- / 1.808	- / 4.430	- / 16.064	- / 79.811	- / 103.611	
Installation													
Modification Item 1 of 1: Mission Systems (OSIP 011-18)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.120	- / 18.403	- / 18.523	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.120	- / 18.403	- / 18.523	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	2.064	2.676	5.313	17.202	107.421	134.676	

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series		Modification Number / Title: 9 / Mission Systems (OSIP 011-18)	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: Mission Systems (OSIP 011-18)							
Manufacturer Information							
Manufacturer Name: MOM/TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 10				Production Leadtime (<i>in Months</i>): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: HF-ALE/TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Jan 2020	Jan 2021	Jan 2022	
Delivery Dates			Dec 2019	Jan 2021	Jan 2022	Jan 2023	
Manufacturer Name: Mission Suite Upgrade/TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates						Nov 2021	
Delivery Dates						Jan 2022	
Manufacturer Name: Carbon Brakes				Manufacturer Location: New MFG - Loc			
Administrative Leadtime (<i>in Months</i>): 23				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: ALCS/TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates						Mar 2022	Mar 2023
Delivery Dates						Mar 2023	Mar 2024
Manufacturer Name: Seats/United Technology Corporation-Aerospace Systems				Manufacturer Location: Colorado Springs, CO			
Administrative Leadtime (<i>in Months</i>): 13				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 9 / Mission Systems (OSIP 011-18)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: Mission Systems (OSIP 011-18)												
Manufacturer Information												
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Delivery Dates												
Manufacturer Name: Fuel Tank Sealant Upgrade/PASI				Manufacturer Location: Dallas, TX								
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 2								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates		Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021						
Delivery Dates		Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022						
Manufacturer Name: AC Electrical/TBD				Manufacturer Location: TBD								
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 6								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Jun 2019	Jul 2020	Jul 2021	Jul 2022						
Delivery Dates			Dec 2019	Jan 2021	Jan 2022	Jan 2023						
Manufacturer Name: TBD				Manufacturer Location: TBD								
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021						
Delivery Dates			Dec 2019	Dec 2020	Dec 2021	Dec 2022						
Manufacturer Name: Cockpit Upgrade/Boeing				Manufacturer Location: St. Louis, MO								
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Dec 2018	Jan 2020	Jan 2021	Jan 2022						
Delivery Dates			Dec 2019	Jan 2021	Jan 2022	Jan 2023						
Installation Information												
Method of Implementation: Drive In:: Installation Name: MOM A Kits												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 9 / Mission Systems (OSIP 011-18)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Mission Systems (OSIP 011-18)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: MOM A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.099	3 / 3.099																
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 13.429	13 / 13.429																
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 16.528	16 / 16.528																
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	16
Method of Implementation: Drive In:: Installation Name: ALCS-R A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.120	0 / 0.000	1 / 0.120															
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.625	5 / 0.625																
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.250	10 / 1.250																
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.120	15 / 1.875	16 / 1.995															

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 9 / Mission Systems (OSIP 011-18)											
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: Mission Systems (OSIP 011-18)																															
Installation Information																															
Method of Implementation: Drive In:: Installation Name: ALCS-R A Kits																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	15	16		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	15	16		
Method of Implementation (Organic): ALCS-R B Kits																							Installation Quantity: 16								
Method of Implementation (Organic): MOM B Kits																							Installation Quantity: 16								

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 10 / Inactive OSIPS

[illegible]**Description:**

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 10 / Inactive OSIPS			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: Inactive					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> N/A													
<i>Subtotal: N/A</i>	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
3.2) Data	- / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.003	
3.4) Support Equipment	27 / 11.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 11.943	
3.6) Other Support	- / 19.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.070	
<i>Subtotal: Support</i>	- / 31.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 31.016	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	31.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	31.016	

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0564 / E-6 Series			Modification Number / Title: 10 / Inactive OSIPS	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	756.179	63.754	38.787	23.566	0.000	23.566	8.930	28.795	60.897	77.239	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	756.179	63.754	38.787	23.566	0.000	23.566	8.930	28.795	60.897	77.239	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	756.179	63.754	38.787	23.566	0.000	23.566	8.930	28.795	60.897	77.239	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modifications to the (11) VH-3D, (8) VH-60N, (1) UH-3D, and (1) UH-60N, currently in service. These aircraft are assigned to Marine Helicopter Squadron One to support the President of the United States. The Communication Suite Upgrade consists of the incorporation of the Wide Band Line of Sight capability. The Structural Enhancement Program incorporates a Service Life Extension on the VH-3D and VH-60N. The Obsolescence Management Program will manage impending Executive Helicopter obsolescence issues. A variety of factors will be addressed including communication, navigation, operational weight, safety, and engine upgrades to remain mission relevant. The VH-3D Cockpit Upgrade consists of upgrades to incorporate night vision compatibility and related cockpit lighting, GPS moving maps, and a satellite weather feed. The overall goals of the modifications budgeted in FY 2019 are to continue procurement efforts in accordance with the procurement strategy to maintain the VH-3D and VH-60N until the VH-92A Replacement Helicopter becomes fully operationally capable. The VH-92A Improvement Program provides for the preparation and incorporation of Engineering Change Proposals (ECP) and the implementation of those changes to sustain and improve VH-92A operations.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy			Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft			P-1 Line Item Number / Title: 0566 / Executive Helicopters Series		
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A		Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: N/A					

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / VH COMM UPGRADE (OSIP 014-02) (SAFETY)				- / 116.329	- / 21.484	- / 13.981	- / 9.989	- / 0.000	- / 9.989
P-3a	2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08) (SAFETY)				- / 23.561	- / 3.673	- / 3.846	- / 2.232	- / 0.000	- / 2.232
P-3a	3 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09) (SAFETY)				- / 144.118	- / 25.105	- / 11.312	- / 9.178	- / 0.000	- / 9.178
P-3a	4 / VH-3D COCKPIT UPGRADE (OSIP 010-12) (SAFETY)				- / 39.324	- / 13.492	- / 9.648	- / 2.167	- / 0.000	- / 2.167
P-3a	5 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20) (SAFETY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	6 / Inactive OSIPs (SAFETY)				- / 432.847	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 756.179	- / 63.754	- / 38.787	- / 23.566	- / 0.000	- / 23.566

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / VH COMM UPGRADE (OSIP 014-02) (SAFETY)				- / 6.130	- / 3.586	- / 0.000	- / 0.000	- / 0.000	- / 171.499
P-3a	2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08) (SAFETY)				- / 2.800	- / 3.384	- / 1.759	- / 1.159	- / 3.814	- / 46.228
P-3a	3 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09) (SAFETY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 189.713
P-3a	4 / VH-3D COCKPIT UPGRADE (OSIP 010-12) (SAFETY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 64.631
P-3a	5 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20) (SAFETY)				- / 0.000	- / 21.825	- / 59.138	- / 76.080	Continuing	Continuing
P-3a	6 / Inactive OSIPs (SAFETY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 432.847
P-40	Total Gross/Weapon System Cost				- / 8.930	- / 28.795	- / 60.897	- / 77.239	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2019 funding request was reduced by \$11.403 million to account for the availability of prior year execution balances.

In FY19, the Wide Band Line of Sight (WBLoS) effort begins Phase IV of the effort for seamless transitions between Ground Entry Points, and implements Through the Rotors capability in order to provide greater access to the NC2/3 networks and provide a robust Fault Isolation/Fault Detection system to the user. The Service Life Extension Program (SLEP) procurement and installations started in FY17 and run through FY20. The SLEP effort is being installed in parallel with the Special Progressive Aircraft Rework (SPAR) effort, and must follow the SPAR schedule. The procurement for the upgrade of the VH-3D Cabin Interior has been accelerated for concurrency with the WBLoS effort. Concurrency is necessary to reduce aircraft weight, maintaining aircraft safety and passenger capacity.

The Executive Helicopter Series APN-5 budget has a reprogramming action in process to reduce the FY17 budget from \$63.8 million to \$52.4 million. The funding is available due to Cabin Interior and Service Life Extension Program FY17 installations shifting into FY18 and program efficiencies/scope reductions within multiple modification efforts.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 1 / VH COMM UPGRADE (OSIP 014-02)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	116.329	21.484	13.981	9.989	0.000	9.989	6.130	3.586	0.000	0.000	0.000	171.499
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	116.329	21.484	13.981	9.989	0.000	9.989	6.130	3.586	0.000	0.000	0.000	171.499
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	116.329	21.484	13.981	9.989	0.000	9.989	6.130	3.586	0.000	0.000	0.000	171.499
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: In support of the Senior Leaders Communications, a Wideband Line of Sight (WBLoS) system is required. A new radio, antenna, associated accessories, aircraft Operational Flight Programs (OFP) and aircraft integration will be required for this effort and procurement efforts began in FY16. Phase III of the four phase WBLoS effort began in FY17 and included the Non Recurring Engineering (NRE) for an upgraded software OFP that will provide the capability for a single WBLoS Terminal to communicate with more than one Ground Entry Point (GEP) at a time in order to minimize transition time between GEPs. It also included the testing and verification of that software. Phase IV includes the NRE for an upgraded software OFP as well as a network upgrade to reduce anticipated packet routing delays due to limitations of Open Shortest Path First (OSPF) protocol when transitioning from GEP to GEP. This effort will also include upgrading the entire network to support the VH requirement of seamless transitions between GEPs. Development and deployment of enhanced capabilities through phases (via software and modifications to the radio and/ or ground equipment) continue after initial installations. Prior year efforts include the FM (YZ) radio replacements on the VH-3D and VH-60N aircraft to maintain crypto security requirements, as well as all related software/firmware modifications. On 22 April 2016, the WBLoS effort received a Deputy Assistant Secretary of the Navy signed exception to the prohibitions of 10 USC 2244a relating to the modification of aircraft within five years of retirement or disposal. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: In FY13, the Deputy Secretary of Defense (DEPSECDEF) initiated the requirement for the WBLoS capability. Research and development efforts began in FY14 for this effort; the procurement efforts began in FY16. Non recurring engineering efforts for Phase III began in FY17. Phase IV software upgrades begin in FY19. The Executive Helicopter Series APN-5 budget has a reprogramming action in process to reduce the FY17 budget from \$63.8 million to \$52.4 million. The funding is available due to Cabin Interior and Service Life Extension Program FY17 installations shifting into FY18 and program efficiencies/scope reductions within multiple modification efforts. In addition to the FY17 reprogramming actions, the FY19 funding request was reduced by \$11.4 million to account for the availability of prior year execution balances. Notes: 1. The Communication Upgrade (WBLoS) A-kits are being installed via a contractor field modification team. 2. The Communication Upgrade (WBLoS) B-kits are being installed at O-level by the squadron at HMX-1. 3. Software in FY17 through FY20 funds Phases III and IV of the WBLoS effort, which includes software and satellite integration. Software increase in FY19 due to start of Phase IV WBLoS upgrade.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 1 / VH COMM UPGRADE (OSIP 014-02)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VH-60N/VH-3D				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VH COMM UPGRADE (OSIP 014-02)													
A Kits													
Recurring													
1.1.1) Archived A Kits - Organic		107 / 4.699	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	107 / 4.699	
1.1.2) Archived Prior Year Installations - Organic		- / 1.253	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.253	
1.1.3) VH-3D Communication Upgrade (WBLoS) - NonOrganic		6 / 0.100	5 / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.180	
1.1.4) VH-60 Communication Upgrade (WBLoS) - NonOrganic		6 / 0.117	2 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.149	
Subtotal: Recurring		- / 6.169	- / 0.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.281	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 12.516	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.516	
Subtotal: Non-Recurring		- / 12.516	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 12.516	
B Kits													
Recurring													
2.1.1) Archived B Kit - Organic		127 / 15.065	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 15.065	
2.1.2) Archived Prior Year Installations - Organic		- / 4.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.950	
2.1.3) VH-3D Communications Equipment Upgrade (WBLoS) - Organic		6 / 4.632	5 / 3.960	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 8.592	
2.1.4) VH-60N Communications Equipment Upgrade (WBLoS) - Organic		6 / 4.632	2 / 1.584	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 6.216	
Subtotal: Recurring		- / 29.279	- / 5.544	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 34.823	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 15.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.587	
Subtotal: Non-Recurring		- / 15.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 15.587	
Subtotal: VH COMM UPGRADE (OSIP 014-02)		258 / 63.551	14 / 5.656	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	272 / 69.207	
Subtotal: Procurement, All Modification Items		- / 63.551	- / 5.656	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 69.207	
Support (All Modification Items)													
3.2) Archived Engineering Change Orders		- / 2.576	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.576	
3.3) Data		- / 7.061	- / 2.000	- / 0.900	- / 0.825	- / -	- / 0.825	- / 0.500	- / 0.250	- / -	- / -	- / 11.536	
3.4) Software ⁽¹⁾		- / -	- / 3.934	- / 4.346	- / 4.003	- / -	- / 4.003	- / 1.525	- / 1.445	- / -	- / -	- / 15.253	
3.5) Training Equipment		- / 1.814	- / 1.600	- / 1.430	- / 1.315	- / -	- / 1.315	- / 0.850	- / -	- / -	- / -	- / 7.009	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 1 / VH COMM UPGRADE (OSIP 014-02)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: VH-60N/VH-3D				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
3.6) Support Equipment	- / 6.461	- / 0.780	- / 0.525	- / 0.325	- / -	- / 0.325	- / -	- / -	- / -	- / -	- / -	- / 8.091	
3.8) Other Support	- / 34.866	- / 5.294	- / 5.464	- / 3.521	- / -	- / 3.521	- / 3.255	- / 1.891	- / -	- / -	- / -	- / 54.291	
<i>Subtotal: Support</i>	<i>- / 52.778</i>	<i>- / 13.608</i>	<i>- / 12.665</i>	<i>- / 9.989</i>	<i>- / -</i>	<i>- / 9.989</i>	<i>- / 6.130</i>	<i>- / 3.586</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 98.756</i>	
Installation													
<i>Modification Item 1 of 1:</i> VH COMM UPGRADE (OSIP 014-02)	- / 0.000	- / 2.220	- / 1.316	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.536	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / 2.220</i>	<i>- / 1.316</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 3.536</i>	
Total													
Total Cost (Procurement + Support + Installation)	116.329	21.484	13.981	9.989	0.000	9.989	6.130	3.586	0.000	0.000	0.000	171.499	

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Exhibit P-3a, Individual Modification: PB 2019 Navy												Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0566 / Executive Helicopters Series												Modification Number / Title: 1 / VH COMM UPGRADE (OSIP 014-02)											
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:																							
Modification Item 1 of 1: VH COMM UPGRADE (OSIP 014-02)																																			
Manufacturer Information																																			
Manufacturer Name: Lockheed Martin - VH-3D Comm Upgrade														Manufacturer Location: Patuxent River, MD																					
Administrative Leadtime (in Months): 9														Production Leadtime (in Months): 3																					
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023									
Contract Dates		Aug 2017																																	
Delivery Dates		Nov 2017																																	
Manufacturer Name: Lockheed Martin - VH-60 Comm Upgrade														Manufacturer Location: Patuxent River, MD																					
Administrative Leadtime (in Months): 9														Production Leadtime (in Months): 6																					
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023									
Contract Dates		Aug 2017																																	
Delivery Dates		Feb 2018																																	
Installation Information																																			
Method of Implementation: Contractor Field Mod - Team:: Installation Name: VH-3D Communication Upgrade (WBLoS)																																			
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																						
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																						
Prior Years		- / -	6 / 1.110	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 1.110																						
FY 2017		- / -	- / -	5 / 0.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.940																						
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
Total		- / -	6 / 1.110	5 / 0.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	11 / 2.050																						
Installation Schedule																																			
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	1	2	2	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11				
Out	-	1	2	2	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11				

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0566 / Executive Helicopters Series										Modification Number / Title: 1 / VH COMM UPGRADE (OSIP 014-02)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: VH COMM UPGRADE (OSIP 014-02)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-60 Communication Upgrade (WBLoS)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	6 / 1.110	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 1.110																		
FY 2017		- / -	- / -	2 / 0.376	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.376																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	6 / 1.110	2 / 0.376	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 1.486																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	2	2	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	-	2	2	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Method of Implementation (Organic): Archived A Kits																				Installation Quantity: 107											
Method of Implementation (Organic): Archived B Kit - Not Installed																				Installation Quantity: 127											
Method of Implementation (Organic): VH-3D Communications Equipment Upgrade (WBLoS)																				Installation Quantity: 11											
Method of Implementation (Organic): VH-60N Communications Equipment Upgrade (WBLoS)																				Installation Quantity: 8											
Footnotes:																															
⁽¹⁾ Software in FY17 through FY20 funds Phases III and IV of the WBLoS effort, which includes software and satellite integration. Software increase in FY19 due to start of Phase IV WBLoS upgrade.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	23.561	3.673	3.846	2.232	0.000	2.232	2.800	3.384	1.759	1.159	3.814	46.228
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	23.561	3.673	3.846	2.232	0.000	2.232	2.800	3.384	1.759	1.159	3.814	46.228
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	23.561	3.673	3.846	2.232	0.000	2.232	2.800	3.384	1.759	1.159	3.814	46.228
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The VH Structural Enhancements Program consists of the efforts necessary to extend the service lives of the VH-3D and VH-60N airframes. The VH-3D and VH-60N must stay in service to support mission needs until the fielding of the VH-92A aircraft. In order to meet the usage requirements, a Service Life Extension Program (SLEP) was established to implement upgrades identified in the Service Life Assessment Program (SLAP). The SLEP extends the service life of the VH-60N and VH-3D by 4,000 hours. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Recurring Engineering for the VH-3D and VH-60N Service Life Extensions began in FY12. The VH-3D SLEP kits were procured in FY13 via a Life of Type procurement due to lack of component part availability. The VH-60N SLEP Kit procurement began in FY15. Validation and Verification efforts occurred in FY17. Installs will follow the Special Progressive Aircraft Rework (SPAR) schedule and will begin in FY18. The Executive Helicopter Series APN-5 budget has a reprogramming action in process to reduce the FY17 budget from \$63.8 million to \$52.4 million. The funding is available due to Cabin Interior and Service Life Extension Program FY17 installations shifting into FY18 and program efficiencies/scope reductions within multiple modification efforts. In addition to the FY17 reprogramming actions, the FY19 funding request was reduced by \$11.4 million to account for the availability of prior year execution balances. Notes: 1.VH-60N Kits have a 11 month production lead time. Kits must be available prior to the aircraft being inducted into SPAR. 2. The VH-60N SLEP Kit procured in FY15 is the validation kit and was installed in FY17 due to delays in SPAR schedule. The first VH-3D installation will begin in FY18. 3. The support across the FYDP supports the installation of the SLEP kits during SPAR.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: VH-3D/VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)													
A Kits													
Recurring													
1.1.1) VH-60N SLEP Kits - NonOrganic 1 / 0.073 1 / 0.026 2 / 0.051 2 / 0.051 - / - 2 / 0.051 2 / 0.051 - / - - / - - / - 8 / 0.252													
1.1.2) VH-3D SLEP Kits - NonOrganic 11 / 0.896 - / - - / - - / - - / - - / - - / - - / - 11 / 0.896													
Subtotal: Recurring - / 0.969 - / 0.026 - / 0.051 - / 0.051 - / - - / 0.051 - / 0.051 - / - - / - - / - - / 0.000 - / 1.148													
Non-Recurring													
1.2.1) Installation Kits N/R - Organic - / 6.653 - / 1.576 - / 1.596 - / - - / - - / - - / - - / - - / - - / 9.825													
Subtotal: Non-Recurring - / 6.653 - / 1.576 - / 1.596 - / - - / - - / - - / - - / - - / 0.000 - / 9.825													
B Kits													
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic - / 0.918 - / - - / - - / - - / - - / - - / - - / - - / 0.918													
Subtotal: Non-Recurring - / 0.918 - / - - / - - / - - / - - / - - / - - / - - / 0.000 - / 0.918													
Subtotal: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08) 12 / 8.540 1 / 1.602 2 / 1.647 2 / 0.051 - / - 2 / 0.051 2 / 0.051 - / - - / - - / - - / 11.891													
Subtotal: Procurement, All Modification Items - / 8.540 - / 1.602 - / 1.647 - / 0.051 - / - - / 0.051 - / 0.051 - / - - / - - / 0.000 - / 11.891													
Support (All Modification Items)													
3.4) Support Equipment - / 4.562 - / 1.181 - / - - / - - / - - / - - / - - / - - / 5.743													
3.5) ILS - / 0.100 - / - - / - - / - - / - - / - - / - - / - - / 0.100													
3.7) Other Support (2) - / 10.359 - / 0.890 - / 0.895 - / 0.877 - / - - / 0.877 - / 0.875 - / 0.940 - / 0.772 - / 0.625 - / 1.612 - / 17.845													
Subtotal: Support - / 15.021 - / 2.071 - / 0.895 - / 0.877 - / - - / 0.877 - / 0.875 - / 0.940 - / 0.772 - / 0.625 - / 1.612 - / 23.688													
Installation													
Modification Item 1 of 1: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08) - / 0.000 - / 0.000 - / 1.304 - / 1.304 - / 0.000 - / 1.304 - / 1.874 - / 2.444 - / 0.987 - / 0.534 - / 2.202 - / 10.649													
Subtotal: Installation - / 0.000 - / - - / 1.304 - / 1.304 - / - - / 1.304 - / 1.874 - / 2.444 - / 0.987 - / 0.534 - / 2.202 - / 10.649													
Total													
Total Cost (Procurement + Support + Installation) 23.561 3.673 3.846 2.232 0.000 2.232 2.800 3.384 1.759 1.159 3.814 46.228													

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)												
Manufacturer Information												
Manufacturer Name: Sikorsky Aircraft Corporation - VH Service Life Extension Program VH-60N ⁽³⁾							Manufacturer Location: Stratford, CT					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 11					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	May 2017	May 2018	Oct 2019	Nov 2019								
Delivery Dates	Sep 2018	Mar 2019	Sep 2020	Oct 2020								
Manufacturer Name: TBD							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 0					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-60N SLEP Kits												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / -
FY 2017	- / -	- / -	1 / 0.570	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.570
FY 2018	- / -	- / -	- / -	1 / 0.570	0 / 0.000	1 / 0.570	1 / 0.570	- / -	- / -	- / -	0 / 0.000	2 / 1.140
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.570	1 / 0.570	- / -	- / -	0 / 0.000	2 / 1.140
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.140	- / -	- / -	0 / 0.000	2 / 1.140
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.570	1 / 0.570	0 / 0.000	1 / 0.570	2 / 1.140	3 / 1.710	- / -	- / -	0 / 0.000	7 / 3.990

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-60N SLEP Kits

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	1	2	-	-	1	-	-	-	-	-	-	-	-	-	7
Out	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	1	1	1	-	1	-	-	-	-	-	-	7

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-3D SLEP Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	1 / 0.734	1 / 0.734	0 / 0.000	1 / 0.734	1 / 0.734	1 / 0.734	2 / 0.987	1 / 0.534	3 / 2.202	10 / 6.659
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.734	1 / 0.734	0 / 0.000	1 / 0.734	1 / 0.734	1 / 0.734	2 / 0.987	1 / 0.534	3 / 2.202	10 / 6.659

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	1	1	-	-	-	1	-	1	-	-	-	1	-	3	10
Out	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	1	1	-	-	-	1	-	1	-	-	4	10

Footnotes:

(2) The support across the FYDP supports the installation of the SLEP kits during SPAR.

(3) Not To Exceed contract letter was sent to contractor in lieu of definitization May 2017, to ensure Structural Enhancement happens concurrently with Special Progressive Aircraft Rework. Definitization expected May 2018.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 3 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	144.118	25.105	11.312	9.178	0.000	9.178	0.000	0.000	0.000	0.000	0.000	189.713
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	144.118	25.105	11.312	9.178	0.000	9.178	0.000	0.000	0.000	0.000	0.000	189.713
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	144.118	25.105	11.312	9.178	0.000	9.178	0.000	0.000	0.000	0.000	0.000	189.713
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: This Operational, Safety, and Improvement Program provides for the readiness of the VH-3D and VH-60N Presidential Helicopters. Funds will be utilized to manage and prepare, process, and incorporate Engineering Change Proposals (ECP) and implement changes to sustain and improve all Executive Helicopter Series system readiness including safety, mission availability, structural integrity, component (avionics/systems) reliability, maintainability, operational weight, performance, and obsolescence conditions as they arise. This program contains the upgrade of Air Vehicle Support Equipment and technical data to support VH unique Air Vehicle requirements. This upgrade effort will install new operating systems, replace obsolete components and core computers, test equipment and basic test program hardware. The Cabin Interior upgrade program for the VH-3D reduces aircraft operational weight, replaces obsolete electrical components, upgrades the fuel system and improves maintainability. Cabin Interior installation efforts include the depopulation of the aircraft and removal of current aircraft interior to ready the aircraft for the installation of the new interior kit, as well as the installation of the new interior kit. As of 18 February 2016, the VH-3D Cabin Interior Modification effort received a Deputy Assistant Secretary of the Navy signed exception to the prohibitions of 10 USC 2244a relating to the modification of aircraft within five years of retirement or disposal. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: VH-3D Cabin Interior Upgrade Non-Recurring Engineering efforts began in FY14. The validation kit procurement was contracted in FY14 and was delivered in FY16. The validation installation was completed in FY17. Five (5) kits were contracted in FY15; four (4) are recurring kits and one (1) is the verification kit; three (3) kits were procured in FY16; and two (2) kits in FY17. The field mod team completing the installation of the kits and providing support was contracted in FY16; and the verification installation and recurring installations began in FY17. The Executive Helicopter Series APN-5 budget has a reprogramming action in process to reduce the FY17 budget from \$63.8 million to \$52.4 million. The funding is available due to Cabin Interior and Service Life Extension Program FY17 installations shifting into FY18 and program efficiencies/scope reductions within multiple modification efforts. In addition to the FY17 reprogramming actions, the FY19 funding request was reduced by \$11.4 million to account for the availability of prior year execution balances. Notes: 1. Cabin interior kits will be installed via a contractor field modification team and on-site support at the Presidential Helicopter Support Facility in Patuxent River, MD.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 3 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VH-3D/VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)													
A Kits													
Recurring													
1.1.1) VH-3D Cabin Interior Redesign Kit - NonOrganic	9 / 27.238	2 / 5.554	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 32.792	
1.1.2) Archived Kits - Organic	43 / 11.221	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 11.221	
Subtotal: Recurring	- / 38.459	- / 5.554	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 44.013	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 14.795	- / 4.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.956	
Subtotal: Non-Recurring	- / 14.795	- / 4.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 18.956	
B Kits													
Recurring													
2.1.1) VH-3D Cabin Interior Redesign Equipment - Organic ⁽⁴⁾	9 / 4.449	2 / 0.896	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 5.345	
Subtotal: Recurring	- / 4.449	- / 0.896	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 5.345	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 23.863	- / 2.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.263	
Subtotal: Non-Recurring	- / 23.863	- / 2.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 26.263	
Subtotal: OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)	61 / 81.566	4 / 13.011	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 94.577	
Subtotal: Procurement, All Modification Items	- / 81.566	- / 13.011	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 94.577	
Support (All Modification Items)													
3.2) Data	- / 2.331	- / 0.200	- / 1.606	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.137	
3.3) Training Equipment	- / 7.086	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.086	
3.4) Support Equipment	- / 1.550	- / 1.991	- / 1.210	- / 1.318	- / -	- / 1.318	- / -	- / -	- / -	- / -	- / -	- / 6.069	
3.5) ILS	- / 0.364	- / 0.500	- / 0.500	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / 1.864	
3.6) Other Support	- / 51.221	- / 8.042	- / 2.552	- / 1.916	- / -	- / 1.916	- / -	- / -	- / -	- / -	- / -	- / 63.731	
Subtotal: Support	- / 62.552	- / 10.733	- / 5.868	- / 3.734	- / -	- / 3.734	- / -	- / -	- / -	- / -	- / 0.000	- / 82.887	
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 3 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VH-3D/VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Modification Item 1 of 1: OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)	- / 0.000	- / 1.361	- / 5.444	- / 5.444	- / 0.000	- / 5.444	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 12.249	
<i>Subtotal: Installation</i>	- / 0.000	- / 1.361	- / 5.444	- / 5.444	- / -	- / 5.444	- / -	- / -	- / -	- / -	- / 0.000	- / 12.249	
Total													
Total Cost (Procurement + Support + Installation)	144.118	25.105	11.312	9.178	0.000	9.178	0.000	0.000	0.000	0.000	0.000	189.713	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0566 / Executive Helicopters Series										Modification Number / Title: 3 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																								
Modification Item 1 of 1: OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)																																							
Manufacturer Information																																							
Manufacturer Name: Sikorsky Aircraft Corp - Cabin Interior Redesign															Manufacturer Location: Stratford, CT - VH-3D Cabin Interior																								
Administrative Leadtime (in Months): 5															Production Leadtime (in Months): 26																								
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023													
Contract Dates		Feb 2017																																					
Delivery Dates		Apr 2019																																					
Installation Information																																							
Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-3D Cabin Interior Redesign Kit																																							
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total															
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)															
Prior Years		- / -		1 / 1.361		4 / 5.444		2 / 2.722		0 / 0.000		2 / 2.722		- / -		- / -		- / -		- / -		0 / 0.000		7 / 9.527															
FY 2017		- / -		- / -		- / -		2 / 2.722		0 / 0.000		2 / 2.722		- / -		- / -		- / -		- / -		0 / 0.000		2 / 2.722															
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -															
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -															
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -															
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -															
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -															
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -															
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -															
Total		- / -		1 / 1.361		4 / 5.444		4 / 5.444		0 / 0.000		4 / 5.444		- / -		- / -		- / -		- / -		0 / 0.000		9 / 12.249															
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9								
Out	-	-	-	-	-	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9								
Method of Implementation (Organic): Archived Kits																														Installation Quantity: 43									
Method of Implementation (Organic): VH-3D Cabin Interior Redesign Equipment																														Installation Quantity: 11									

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Footnotes: (4) Cabin Interior kits will be installed via a contractor field modification team at the Presidential Helicopter Support Facility in Patuxent River, MD.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 4 / VH-3D COCKPIT UPGRADE (OSIP 010-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39.324	13.492	9.648	2.167	0.000	2.167	0.000	0.000	0.000	0.000	0.000	64.631
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	39.324	13.492	9.648	2.167	0.000	2.167	0.000	0.000	0.000	0.000	0.000	64.631
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	39.324	13.492	9.648	2.167	0.000	2.167	0.000	0.000	0.000	0.000	0.000	64.631
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: In order to meet the requirement of providing safe and timely transportation for the President, Vice President, and other parties as directed by the Director of the White House Military Office (WHMO), and in support of the alert and contingency mission requirement of the WHMO Operations Plan, a VH-3D Cockpit Upgrade program has been established to extend the VH-3D service life requirements. The VH-3D Cockpit Upgrade eliminates pending obsolescence and supportability issues with key avionics components and brings the VH-3D in compliance with mandated avionics capabilities (Communication Navigation Surveillance/Air Traffic Management, Terrain Awareness Warning System/Ground Proximity Warning System). In addition, an upgraded cockpit improves system safety, reduces pilot workload and training requirements. The baseline upgrade includes night vision compatibility and related cockpit lighting, GPS moving map functionality, and satellite weather feed, bringing the VH-3D in line with VH-60N capabilities. Modern, common avionics equipment will reduce logistics cost and increase reliability. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Procurement efforts for the VH-3D Cockpit Upgrade began in FY12. Procurement for the Cockpit Upgrade Lighting kits began in FY16. The Data Transfer Module (DTU-7000) software upgrade effort also began in FY16. The GPS update will begin in FY18. Operational Flight Program Software (OFP) upgrades for the Cockpit Upgrade program are ongoing to support the upgraded hardware systems. The Executive Helicopter Series APN-5 budget has a reprogramming action in process to reduce the FY17 budget from \$63.8 million to \$52.4 million. The funding is available due to Cabin Interior and Service Life Extension Program FY17 installations shifting into FY18 and program efficiencies/scope reductions within multiple modification efforts. In addition to the FY17 reprogramming actions, the FY19 funding request was reduced by \$11.4 million to account for the availability of prior year execution balances. Notes: 1. Software includes the software upgrade for the DTU-7000 effort, as well as the integration of the new GPS required for ADS-B out mandate. 2. The Cockpit Lighting Upgrade kits will be installed at O-level by the squadron at HMX-1 as aircraft are available.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 4 / VH-3D COCKPIT UPGRADE (OSIP 010-12)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VH-3D				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VH-3D COCKPIT UPGRADE (OSIP 010-12)													
A Kits													
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / 8.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.505	
Subtotal: Non-Recurring		- / 8.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.505	
B Kits													
Recurring													
2.1.1) VH-3D Cockpit Upgrade Kit - Organic		14 / 0.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.409	
Subtotal: Recurring		- / 0.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.409	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic		- / 8.239	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.239	
Subtotal: Non-Recurring		- / 8.239	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.239	
Subtotal: VH-3D COCKPIT UPGRADE (OSIP 010-12)		14 / 17.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 17.153	
Subtotal: Procurement, All Modification Items		- / 17.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 17.153	
Support (All Modification Items)													
3.2) Data		- / 0.800	- / 0.800	- / 0.800	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / 2.900	
3.3) Software ⁽⁵⁾		- / -	- / 7.178	- / 4.900	- / 0.260	- / -	- / 0.260	- / -	- / -	- / -	- / -	- / 12.338	
3.4) Training Equipment		- / -	- / 0.500	- / 0.600	- / 0.800	- / -	- / 0.800	- / -	- / -	- / -	- / -	- / 1.900	
3.5) Support Equipment		- / 2.558	- / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.308	
3.7) Other Support		- / 18.813	- / 4.264	- / 3.348	- / 0.607	- / -	- / 0.607	- / -	- / -	- / -	- / -	- / 27.032	
Subtotal: Support		- / 22.171	- / 13.492	- / 9.648	- / 2.167	- / -	- / 2.167	- / -	- / -	- / -	- / 0.000	- / 47.478	
Installation													
Subtotal: Installation		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)		39.324	13.492	9.648	2.167	0.000	2.167	0.000	0.000	0.000	0.000	64.631	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 4 / VH-3D COCKPIT UPGRADE (OSIP 010-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: VH-3D COCKPIT UPGRADE (OSIP 010-12)		
Footnotes: ⁽⁵⁾ Includes the software upgrade for the DTU-7000 effort, as well as the integration of the new GPS required for ADS-B out mandate.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series						Modification Number / Title: 5 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.825	59.138	76.080	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.825	59.138	76.080	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.825	59.138	76.080	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The VH-92A, based on the commercial Sikorsky S-92A aircraft, provides safe, reliable, and timely transportation for the President, Vice President, Foreign Heads of State (HoS), and other official parties as directed by the Director of the White House Military Office (WHMO). VH-92A Improvement Program provides near and long term improvements to the fleet, focusing on documented deficiencies related to mission systems, maintainability, and incorporates pre-planned product improvements defined in the VH-92A Capability Production Development Document (CDD). These modifications and selected component changes are being accomplished by depot level maintenance or field retrofit. Funds will be used to manage, prepare, process and incorporate airframe and avionics Engineering Change Proposals (ECP) and implement those changes to sustain and improve VH-92A operations. ECPs will be implemented to coincide with resources and aircraft availability. The planned efforts are the forward airstair door modification, Mission Communications System (MCS) follow-on efforts, incorporation of a 5th multi-function display panel in the cockpit and an Enhanced Visual System (EVS). DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The Milestone B Acquisition Decision Memorandum was signed 17 April 2014 and the VH-92A contract for the Engineering and Manufacturing Development (EMD) phase and priced options for production was awarded on 7 May 2014. Four System Demonstration Test Articles (SDTA) aircraft will be delivered during EMD and will be used for Initial Operational Test and Evaluation (IOT&E). The SDTA aircraft will be transitioned to operational use after completion of IOT&E in FY20. This OSIP is a new start in FY21 to begin improvements and modifications to the SDTA aircraft and subsequent VH-92A aircraft as they are delivered. The VH-92A program will have a total of 21 operational aircraft by FY23.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series						Modification Number / Title: 5 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: VH-92A				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)													
A Kits													
Recurring													
1.1.1) Airframe Modification - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.336	- / 4.336	- / -	- / 7.672	
1.1.2) Avionics Modification - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.435	- / 5.205	- / -	- / 9.640	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.771	- / 9.541	- / 0.000	- / 17.312	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.844	- / 18.026	- / 21.001	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.844	- / 18.026	- / 21.001	Continuing	Continuing	
B Kits													
Recurring													
2.1.1) Airframe Modification - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.784	- / 3.394	- / -	- / 6.178	
2.1.2) Avionics Modification - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.786	- / 5.774	- / -	- / 10.560	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.570	- / 9.168	- / 0.000	- / 16.738	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.651	- / 5.826	- / 7.006	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.651	- / 5.826	- / 7.006	Continuing	Continuing	
<i>Subtotal: VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.495	- / 39.193	- / 46.716	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.495	- / 39.193	- / 46.716	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.825	59.138	76.080	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 5 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 6 / Inactive OSIPs

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	432.847	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	432.847
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	432.847	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	432.847
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	432.847	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	432.847

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

VH-3D Lift Improvement Program (LIP) OSIP 011-06 completed in FY 2012 and has been moved to In-Active OSIPs.
VH-60N Cockpit Upgrade OSIP 009-02 completed in FY 2016 and has been moved to In-Active OSIPs.
VH-3D/VH-60N Trainer Conversion OSIP 009-11 completed in FY 2016 and has been moved to In-Active OSIPs.

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LI 0566 - Executive Helicopters Series
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 6 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0567 / Special Project Acft

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	463.341	31.366	28.159	7.620	2.165	9.785	0.000	0.000	0.000	0.000	-	532.651
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	463.341	31.366	28.159	7.620	2.165	9.785	0.000	0.000	0.000	0.000	-	532.651
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	463.341	31.366	28.159	7.620	2.165	9.785	0.000	0.000	0.000	0.000	-	532.651
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Special Projects program modifies and/or replaces obsolete special mission equipment and integrates Quick Reaction Capability (QRC) on P-3 and P-8 aircraft. Procurements vary in each fiscal year and include common Navy systems for increased capability, reduced operator workload and common logistics, as well as procurement of special mission equipment as directed by the Chief of Naval Operations. Active Primary Aircraft Authorized inventory is 5 aircraft.

The government is the Lead System Integrator for Hardware and Software upgrades on the aircraft.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0567 / Special Project Acft			
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A									

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Intelligence Sensors (OSIP 019-97) (Operational Improvement)				- / 383.932	- / 31.366	- / 28.159	- / 7.620	- / 2.165	- / 9.785
P-3a	2 / Inactive OSIPS (Operational Improvement)				- / 79.409	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 463.341	- / 31.366	- / 28.159	- / 7.620	- / 2.165	- / 9.785

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Intelligence Sensors (OSIP 019-97) (Operational Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 453.242
P-3a	2 / Inactive OSIPS (Operational Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 79.409
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 532.651

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The FY 2019 funding request was reduced by \$0.069 million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

OCO:
 FY2019 OCO Request for \$2.165M for Specialized Extended Range Collection Equipment (SERCE). Effort procures and rapidly integrates SERCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO).

FY2019 OCO funds will install new collection capabilities required by the COCOM on SPA aircraft. Specific operational details can be provided in a classified forum.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0567 / Special Project Acft						Modification Number / Title: 1 / Intelligence Sensors (OSIP 019-97)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	383.932	31.366	28.159	7.620	2.165	9.785	0.000	0.000	0.000	0.000	0.000	453.242
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	383.932	31.366	28.159	7.620	2.165	9.785	0.000	0.000	0.000	0.000	0.000	453.242
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	383.932	31.366	28.159	7.620	2.165	9.785	0.000	0.000	0.000	0.000	0.000	453.242
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: For FY18 these modification efforts continue to replace obsolescence intelligence collection equipment in five P-3 Special Project aircraft by procurement of special mission equipment as directed by the Chief of Naval Operations. The government is the Lead System Integrator for Hardware and Software upgrades on the aircraft. FY2018 OCO Special Project Aircraft P496 v7.0 system technical upgrade is required to continue current P496 Overseas Contingency Operations. Specific operational details can be provided in a classified forum. FY2018 OCO Special Project Aircraft Advanced Data Collection Equipment (ADCE) effort procures and rapidly integrates ADCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). Specific operational details can be provided in a classified forum. FY2018 OCO Special Project Technical Receiver Extended Range (TREX) effort procures and rapidly integrates TREX required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). Specific operational details can be provided in a classified forum. FY2019 OCO Request for \$2.165M for Specialized Extended Range Collection Equipment (SERCE). Effort procures and rapidly integrates SERCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). FY2019 OCO funds will install new collection capabilities required by the COCOM on SPA aircraft. Specific operational details can be provided in a classified forum. DEVELOPMENT STATUS/MAJOR MILESTONES: Not Applicable NOTES: 1) FY2018 OCO will fund installs in FY2019 2) FY2019 OCO will fund installs in FY2020 The FY 2019 funding request was reduced by \$0.069 million to account for the availability of prior year execution balances												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0567 / Special Project Acft				Modification Number / Title: 1 / Intelligence Sensors (OSIP 019-97)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: P-3B/C			Modification Type: Operational Improvement					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: Intelligence Sensors (OSIP 019-97)												
B Kits												
Recurring												
1.1.1) Archived - Organic ⁽¹⁾ - / 86.920 - / - - / - - / - - / - - / - - / - - / - - - / 86.920												
1.1.2) Mission Unique Equipment - NonOrganic ⁽²⁾ - / 136.949 - / 18.509 - / 18.910 - / 3.339 - / 0.990 - / 4.329 - / - - / - - / - - / - - - / 178.697												
Subtotal: Recurring - / 223.869 - / 18.509 - / 18.910 - / 3.339 - / 0.990 - / 4.329 - / - - / - - / - - / - - - / 0.000 - / 265.617												
Non-Recurring												
1.2.1) Install Equipment N/R - Organic - / 74.415 - / 2.697 - / 3.270 - / 1.205 - / 0.450 - / 1.655 - / - - / - - / - - / - - - / 82.037												
1.2.2) BFT/Collection Equipment (Install Equip N/R) - Organic - / 0.120 - / - - / - - / - - / - - / - - - / - - - / - - - / - - - / 0.120												
Subtotal: Non-Recurring - / 74.535 - / 2.697 - / 3.270 - / 1.205 - / 0.450 - / 1.655 - / - - / - - / - - / - - - / 0.000 - / 82.157												
Subtotal: Intelligence Sensors (OSIP 019-97) - / 298.404 - / 21.206 - / 22.180 - / 4.544 - / 1.440 - / 5.984 - / - - / - - / - - / - - - / 347.774												
Subtotal: Procurement, All Modification Items - / 298.404 - / 21.206 - / 22.180 - / 4.544 - / 1.440 - / 5.984 - / - - / - - / - - / - - - / 0.000 - / 347.774												
Support (All Modification Items)												
2.2) Data - / 6.427 - / 0.950 - / 0.245 - / 0.090 - / 0.050 - / 0.140 - / - - / - - / - - / - - - / 7.762												
2.3) Training Equipment - / 11.064 - / 0.260 - / 0.200 - / 0.090 - / - - / 0.090 - / - - / - - / - - - / 11.614												
2.4) BFT/Collection Equipment (Training Equip) - / 0.181 - / - - / - - / - - - / - - - / - - - / - - - / - - - / 0.181												
2.5) Support Equipment - / 0.430 - / - - / - - - / - - - / - - - / - - - / - - - / - - - / 0.430												
2.6) ILS - / 4.825 - / 0.874 - / 0.750 - / 0.450 - / 0.100 - / 0.550 - / - - / - - / - - / - - - / 6.999												
2.7) Other Support - / 50.638 - / 3.656 - / 3.112 - / 2.037 - / 0.150 - / 2.187 - / - - / - - / - - / - - - / 59.593												
Subtotal: Support - / 73.565 - / 5.740 - / 4.307 - / 2.667 - / 0.300 - / 2.967 - / - - / - - / - - / - - - / 0.000 - / 86.579												
Installation												
Modification Item 1 of 1: Intelligence Sensors (OSIP 019-97) - / 11.963 - / 4.420 - / 1.672 - / 0.409 - / 0.425 - / 0.834 - / 0.000 - / 0.000 - / 0.000 - / 0.000 - / 0.000 - / 0.000 - / 18.889												
Subtotal: Installation - / 11.963 - / 4.420 - / 1.672 - / 0.409 - / 0.425 - / 0.834 - / - - / - - / - - / - - - / 0.000 - / 18.889												
Total												
Total Cost (Procurement + Support + Installation) 383.932 31.366 28.159 7.620 2.165 9.785 0.000 0.000 0.000 0.000 0.000 453.242												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0567 / Special Project Acft										Modification Number / Title: 1 / Intelligence Sensors (OSIP 019-97)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Intelligence Sensors (OSIP 019-97)																															
Manufacturer Information																															
Manufacturer Name: TBD - Operational Improvement															Manufacturer Location: TBD																
Administrative Leadtime <i>(in Months)</i> : 4															Production Leadtime <i>(in Months)</i> : 8																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Jan 2017				Jan 2018				Jan 2019																					
Delivery Dates		Sep 2017				Sep 2018				Sep 2019																					
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Mission Unique Equipment																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		1 / 11.963	0 / 1.490		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		1 / 13.453								
FY 2017		- / -	0 / 2.930		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		- / 2.930								
FY 2018		- / -	- / -		0 / 1.672		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		- / 1.672								
FY 2019		- / -	- / -		- / -		0 / 0.409		0 / 0.425		0 / 0.834		- / -		- / -		- / -		- / -		0 / 0.000		- / 0.834								
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -								
Total		1 / 11.963	0 / 4.420		0 / 1.672		0 / 0.409		0 / 0.425		0 / 0.834		- / -		- / -		- / -		- / -		0 / 0.000		1 / 18.889								
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Footnotes: (1) Installation equipment includes both Mission Unique and Improved Communication Capabilities to be installed concurrently. (2) P-3A In/Out for Total Prior Years should be blank, set to 1 as a workaround.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0567 / Special Project Acft						Modification Number / Title: 2 / Inactive OSIPS		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	79.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	79.409
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	79.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	79.409
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	79.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	79.409
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0567 / Special Project Acft			Modification Number / Title: 2 / Inactive OSIPS	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0569 / T-45 Series					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A				Other Related Program Elements: N/A					
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	783.199	105.150	148.071	195.475	0.000	195.475	206.447	166.832	171.469	180.619	664.839	2,622.101
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	783.199	105.150	148.071	195.475	0.000	195.475	206.447	166.832	171.469	180.619	664.839	2,622.101
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	783.199	105.150	148.071	195.475	0.000	195.475	206.447	166.832	171.469	180.619	664.839	2,622.101
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to T-45 Training System (T45TS) which encompasses both aircraft and Ground-Based Training Systems (GBTS). Current inventory is 199 Aircraft. The T-45 Goshawk is a tandem-seat, carrier capable derivative of the existing British Aerospace Hawk aircraft powered by a single Rolls Royce Adour engine. It serves as the aircraft component of the T45TS integrated jet pilot training system. The overall goal of the modifications budgeted is to correct discrepancies and deficiencies discovered after delivery of the aircraft and to commence upgrades to the aircraft cockpit and navigation systems. T-45 aircraft and simulators are facing critical avionics obsolescence and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Operational Safety and Improvement Program (OSIP) 008-95 - Corrections of Deficiencies was established to resolve safety and reliability issues, improve required mission capabilities and correct in-service deficiencies to aircraft components.

OSIP 003-03 - Engine Surge was established to resolve engine surge critical safety issues.

OSIP 017-04 - Avionics Obsolescence funds continuing avionics obsolescence and DMSMS issues and implements safety related avionics upgrades.

OSIP 022-14 - Service Life Extension Program (SLEP) funds correction of deficiencies discovered in the Service Life Assessment Program (SLAP), which identified risk areas that must be addressed in order to extend the aircraft service life.

OSIP 006-16 - Required Avionics Sustainment Program (RASP) will modify the T45TS with the Automatic Dependent Surveillance-Broadcast Out (ADS-B Out) Capability to comply with the January 1, 2020 Federal Aviation Administration (FAA) National Airspace Systems Mandate as well as other FAA and Navigation mandates. Additionally, the T-45 Navigation source (Global Positioning System ((GPS))) will be updated to address obsolescence.

OSIP 012-19 - Physiological Episode Mitigation funds modifications to the T-45 training system to address aircrew physiological episodes (PE).

The designed service life of the aircraft was 14,400 hours and reduced as a result of Service Life Assessment Program (SLAP) analysis to 13,000 hours, with the average remaining service life of inventory aircraft estimated at 6,139 hours.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy				Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft				P-1 Line Item Number / Title: 0569 / T-45 Series	
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A		Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: N/A					

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / T-45TS Corrections of Deficiencies (OSIP 008-95) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 263.362	- / 21.563	- / 24.063	- / 17.872	- / 0.000	- / 17.872
P-3a	2 / Engine Surge (OSIP 003-03) (PS Safety)				- / 55.813	- / 9.032	- / 20.008	- / 23.774	- / 0.000	- / 23.774
P-3a	3 / Avionics Obsolescence (OSIP 017-04) (PS Safety)				- / 270.906	- / 13.362	- / 26.474	- / 21.393	- / 0.000	- / 21.393
P-3a	4 / Service Life Extension Program (SLEP) (022-14) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 97.743	- / 42.479	- / 37.710	- / 33.911	- / 0.000	- / 33.911
P-3a	5 / Required Avionics Sustainment Program (RASP) (006-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 1.501	- / 18.714	- / 39.816	- / 58.148	- / 0.000	- / 58.148
P-3a	6 / Physiological Episode Mitigation (PS Safety)				- / 0.000	- / 0.000	- / 0.000	- / 40.377	- / 0.000	- / 40.377
P-3a	7 / Inactive OSIPs (TBD)				- / 93.874	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 783.199	- / 105.150	- / 148.071	- / 195.475	- / 0.000	- / 195.475

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / T-45TS Corrections of Deficiencies (OSIP 008-95) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 17.262	- / 21.523	- / 22.329	- / 20.644	- / 157.036	- / 565.654
P-3a	2 / Engine Surge (OSIP 003-03) (PS Safety)				- / 29.139	- / 36.170	- / 31.797	- / 33.438	- / 120.914	- / 360.085
P-3a	3 / Avionics Obsolescence (OSIP 017-04) (PS Safety)				- / 14.649	- / 26.353	- / 50.454	- / 64.462	- / 160.703	- / 648.756
P-3a	4 / Service Life Extension Program (SLEP) (022-14) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 41.445	- / 48.591	- / 47.313	- / 51.441	- / 214.017	- / 614.650
P-3a	5 / Required Avionics Sustainment Program (RASP) (006-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 55.650	- / 28.778	- / 17.926	- / 9.023	- / 12.169	- / 241.725
P-3a	6 / Physiological Episode Mitigation (PS Safety)				- / 48.302	- / 5.417	- / 1.650	- / 1.611	- / 0.000	- / 97.357
P-3a	7 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 93.874
P-40	Total Gross/Weapon System Cost				- / 206.447	- / 166.832	- / 171.469	- / 180.619	- / 664.839	- / 2,622.101

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2019 funding request was reduced by \$2.987M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	263.362	21.563	24.063	17.872	0.000	17.872	17.262	21.523	22.329	20.644	157.036	565.654
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	263.362	21.563	24.063	17.872	0.000	17.872	17.262	21.523	22.329	20.644	157.036	565.654
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	263.362	21.563	24.063	17.872	0.000	17.872	17.262	21.523	22.329	20.644	157.036	565.654
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational, Safety and Improvement Program (OSIP) funds modifications to the T-45 training system to address correction of deficiencies discovered during test and evaluation or operational use to the entire airframe; its components and sub-assemblies, including related Peculiar Support Equipment (SE), all of which vary in complexity and cost of Non-Recurring Engineering, procurement and installation. The correction of deficiencies Engineering Change Proposals (ECPs) include AIRFRAME ECPs - divided into two categories: Structural and Systems. STRUCTURAL ECPs: The structural portion of this OSIP provides for several structural ECPs to correct safety of flight related issues and deficiencies in meeting airframe original design life of 14,400 Flight Hours. ECPs for Wing Leading Edge Panels, Wing Centerline Joint, Flap Center Hinge Arm, Canopy Frame, Canopy Frame Longeron, Wing Tip, Gas Turbine Starter Bracket, Horizontal Stabilators, Frame 24 Crossbeam Lugs and Side Skin, Frame 7 Upper Cross Tie, Wing Leading Edge, Frame 29 Lower Flange, Uplock Beam Forward Attach, Slat Track Rib 5 Downstop Bolt, Rib 2 T-Clip, Frame 28/32 Boundary/Vertical Fin, Frame 33 Structure, Inlet Close-Out Fuel and Tank Ceiling Stiffener, Airframe Engine Mount, Frame 21 Structure, Main Landing Gear (MLG) Bay Tilted & Fasteners, MLG Side Stay Support, Longitudinal Systems Viscous, Frame 20 Lower Longeron/ Sidebrace, Frame 12 Vertical Splice, Frame 1 Structures and Ballast provisions, Nose Landing Gear Trunnion Beam, Slat Actuator Fitting Angle, Structure Life Improvement, Speed Brake and Backup Structure, Engine Mount Link Option, Stabilizer Back-Up Structures, Fuselage/Frame 10 Door, and Fin Bracket Lever Box Assembly, Over Center Locking Mechanism, Arrestor Beam Back-up Structure, Wing Lower Aux Spar Doubler, Frame 16 Lateral Link, Frame 17/18 structures and Fuselage Sideskin Fasteners. SYSTEMS ECPs: Modifications to the airframe, other than structural deficiencies, are also required to ensure safety of flight, aero-performance and maintainability to enable satisfactory Pilot Training Requirements levels. This Airframe OSIP affects several airframe components and their sub-assemblies including: forward, center and aft fuselage components, Landing Gear, Nose Wheel Steering, arresting hook, tail cone, wing, horizontal and vertical control surfaces (Aileron Rudder), flaps, canopy/windscreen, Aircrew Systems, Ejection system, including lanyard retention collar, ejection control handle, sequencer, barostatic release unit, seat pan, head box and associated components, hydraulic system, and hyd system quick disconnects, oxygen system; to include oxygen monitor, oxygen concentrator and ancillary components (bleed air shutoff valve, heat exchanger, temperature switch, water separator, bleed air piping, plenum and associated indicator systems/annunciators), electrical system, fuel system, throttle, instrumentation systems, environmental controls, communications, navigation, emergency systems, and associated Peculiar Support Equipment (PSE), nosewheel steering test set, hydraulic test stand, cabin pressure test set, Easily Manipulated Mechanical Arm, frame 33 tail plane fitting tool, and landing gear (dummy gear). ENGINE/POWER AND PROPULSION: Modifications under this category include modifications to the Engine, Gas Turbine Starter, and Electrical System which will increase the reliability, maintainability and safety of these systems. Engine modifications include Engine Mounts, Fuel Pumps, Combustion Chamber, Compressors, Nozzle Guide Vanes, Drive Systems, Oil System, Air Systems, Turbines, Fuel Distribution and Control and modifications to address engine surge/compressor stall. Gas Turbine Starter modifications include starting system, air turbine starter, and air producer. Electrical modifications include generator/distribution/wiring modifications. Other Support and Non-Recurring Engineering costs fund Government labor to perform engineering, test, logistics and financial management tasks in order to execute modifications associated with this OSIP. This additional support will be performed in accordance with the Federal Management Regulation and Naval Air Systems Command Policy.												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2019 and out provides funds for STRUCTURAL ECPs, SYSTEMS ECPs and ENGINE/PROPULSION & POWER ECPs.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45TS			Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities					Related RDT&E PEs: 0702207N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)													
A Kits													
Recurring													
1.1.1) Airframe Structural - NonOrganic ⁽¹⁾	823 / 16.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	823 / 16.113	
1.1.2) Sub 14.4K FLE Deficiencies - NonOrganic	2 / 0.650	3 / 0.086	12 / 1.816	24 / 2.900	- / -	24 / 2.900	24 / 2.940	24 / 2.993	24 / 3.047	24 / 3.102	62 / 7.689	199 / 25.223	
1.1.3) Hookshank LSP - Organic	36 / 0.074	24 / 0.052	24 / 0.052	24 / 0.053	- / -	24 / 0.053	24 / 0.053	24 / 0.054	24 / 0.055	19 / 0.044	- / -	199 / 0.437	
1.1.4) Nose Wheel Steering System - NonOrganic ⁽²⁾	- / -	- / -	- / -	66 / 0.706	- / -	66 / 0.706	66 / 0.725	67 / 0.761	- / -	- / -	- / -	199 / 2.192	
1.1.5) NACES Retrofit Upgrade - NonOrganic	- / -	- / -	- / -	4 / 0.089	- / -	4 / 0.089	12 / 0.271	48 / 1.101	48 / 1.121	48 / 1.141	238 / 5.809	398 / 9.532	
1.1.6) Water Separators - NonOrganic	- / -	200 / 1.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 1.998	
1.1.7) Advanced Bleed Air Shutoff Valve - NonOrganic ⁽³⁾	- / -	- / -	18 / 0.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.090	
1.1.8) Archived ECPs - Organic	1,846 / 119.634	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,846 / 119.634	
Subtotal: Recurring	- / 136.471	- / 2.136	- / 1.958	- / 3.748	- / -	- / 3.748	- / 3.989	- / 4.909	- / 4.223	- / 4.287	- / 13.498	- / 175.219	
Non-Recurring													
1.2.1) NON-RECURRING COSTS - Organic	- / 24.561	- / 0.325	- / 1.150	- / 1.655	- / -	- / 1.655	- / 0.361	- / 3.722	- / 5.004	- / 5.084	- / 3.394	- / 45.256	
Subtotal: Non-Recurring	- / 24.561	- / 0.325	- / 1.150	- / 1.655	- / -	- / 1.655	- / 0.361	- / 3.722	- / 5.004	- / 5.084	- / 3.394	- / 45.256	
B Kits													
Recurring													
2.1.1) NACES Propellant - Organic	- / -	- / -	- / -	14 / 0.036	- / -	14 / 0.036	96 / 0.253	96 / 0.255	96 / 0.260	96 / 0.271	- / -	398 / 1.075	
2.1.2) Oxygen Concentrator (Hypoxia Prevention) - NonOrganic ⁽⁴⁾	- / -	- / -	2 / 0.091	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.091	
2.1.3) Legacy Bleed Air Shutoff Valve - Organic ⁽⁵⁾	- / -	198 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	198 / 1.500	
2.1.4) Advanced Bleed Air Shutoff/Purge Valve - Organic ⁽⁶⁾	- / -	- / -	18 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.225	
2.1.5) OBOGS Deficiency Correction - NonOrganic ⁽⁷⁾	- / -	- / -	80 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 3.000	
2.1.6) Archived B Kits - Organic	425 / 8.979	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	425 / 8.979	
Subtotal: Recurring	- / 8.979	- / 1.500	- / 3.316	- / 0.036	- / -	- / 0.036	- / 0.253	- / 0.255	- / 0.260	- / 0.271	- / 0.000	- / 14.870	
Non-Recurring													

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45TS				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities				Related RDT&E PEs: 0702207N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.2.1) INSTALL EQUIPMENT N/R - Organic	- / 4.528	- / 5.756	- / 2.100	- / 0.440	- / -	- / 0.440	- / -	- / -	- / -	- / -	- / -	- / 12.824	
<i>Subtotal: Non-Recurring</i>	- / 4.528	- / 5.756	- / 2.100	- / 0.440	- / -	- / 0.440	- / -	- / -	- / -	- / -	- / 0.000	- / 12.824	
<i>Subtotal: T-45TS Corrections of Deficiencies (OSIP 008-95)</i>	3,132 / 174.539	425 / 9.717	154 / 8.524	132 / 5.879	- / -	132 / 5.879	222 / 4.603	259 / 8.886	192 / 9.487	187 / 9.642	300 / 16.892	5,003 / 248.169	
<i>Subtotal: Procurement, All Modification Items</i>	- / 174.539	- / 9.717	- / 8.524	- / 5.879	- / -	- / 5.879	- / 4.603	- / 8.886	- / 9.487	- / 9.642	- / 16.892	- / 248.169	
Support (All Modification Items)													
3.2) Data	- / 0.809	- / -	- / 0.037	- / 0.038	- / -	- / 0.038	- / 0.038	- / 0.039	- / 0.040	- / 0.041	- / 0.302	- / 1.344	
3.3) Training Equipment	- / 7.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.054	
3.4) Support Equipment	- / 1.515	- / 2.207	- / 0.053	- / 0.054	- / -	- / 0.054	- / 0.055	- / 0.056	- / 0.057	- / 0.058	- / 0.436	- / 4.491	
3.5) ILS ⁽⁸⁾	- / 1.168	- / 1.090	- / 1.123	- / 1.143	- / -	- / 1.143	- / 1.164	- / 1.185	- / 1.206	- / 1.228	- / 14.959	- / 24.266	
3.6) Other Support ⁽⁹⁾	- / 73.649	- / 8.549	- / 10.320	- / 8.618	- / -	- / 8.618	- / 6.953	- / 6.953	- / 6.997	- / 7.082	- / 114.440	- / 243.561	
<i>Subtotal: Support</i>	- / 84.195	- / 11.846	- / 11.533	- / 9.853	- / -	- / 9.853	- / 8.210	- / 8.233	- / 8.300	- / 8.409	- / 130.137	- / 280.716	
Installation													
<i>Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)</i>	- / 4.628	- / 0.000	- / 4.006	- / 2.140	- / 0.000	- / 2.140	- / 4.449	- / 4.404	- / 4.542	- / 2.593	- / 10.007	- / 36.769	
<i>Subtotal: Installation</i>	- / 4.628	- / -	- / 4.006	- / 2.140	- / -	- / 2.140	- / 4.449	- / 4.404	- / 4.542	- / 2.593	- / 10.007	- / 36.769	
Total													
Total Cost (Procurement + Support + Installation)	263.362	21.563	24.063	17.872	0.000	17.872	17.262	21.523	22.329	20.644	157.036	565.654	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)												
Manufacturer Information												
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime <i>(in Months)</i> : 0						Production Leadtime <i>(in Months)</i> : 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: Various - Airframe Structural						Manufacturer Location: Various						
Administrative Leadtime <i>(in Months)</i> : 0						Production Leadtime <i>(in Months)</i> : 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: AIRFRAME STRUCTURAL												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	706 / 3.778	- / -	117 / 2.364	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	823 / 6.142
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	706 / 3.778	- / -	117 / 2.364	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	823 / 6.142

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0569 / T-45 Series											Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)																															
Installation Information																															
Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: AIRFRAME STRUCTURAL																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	706	-	-	-	-	30	29	29	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	823
Out	607	25	25	25	24	30	29	29	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	823
Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: T-45TS CORR OF DEFICIENCIES (OSIP 008-95)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		2 / 0.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.350																		
FY 2017		0 / 0.500	200 / 0.000	3 / 0.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	203 / 1.025																		
FY 2018		- / -	- / -	98 / 1.117	14 / 2.140	0 / 0.000	14 / 2.140	- / -	- / -	- / -	- / -	0 / 0.000	112 / 3.257																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	90 / 4.449	4 / 0.013	- / -	- / -	0 / 0.000	94 / 4.462																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 4.391	12 / 0.040	- / -	0 / 0.000	102 / 4.431																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 4.502	48 / 0.162	0 / 0.000	139 / 4.664																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.431	48 / 0.162	72 / 2.593																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 2.639	72 / 2.639																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	300 / 7.206	300 / 7.206																		
Total		2 / 0.850	200 / 0.000	101 / 1.642	14 / 2.140	0 / 0.000	14 / 2.140	90 / 4.449	94 / 4.404	103 / 4.542	72 / 2.593	420 / 10.007	1,096 / 30.627																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	2	-	-	-	200	20	26	29	26	3	3	4	4	22	23	22	23	22	23	22	27	22	23	23	35	6	6	6	54	420	1,096
Out	2	-	-	-	200	20	26	26	29	-	3	4	4	19	23	22	23	22	23	22	27	22	23	23	35	6	6	6	54	426	1,096
Method of Implementation (Organic): Hookshank LSP																															
Installation Quantity: 199																															
Method of Implementation (Organic): Archived ECPs																															
Installation Quantity: 1846																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)		
Installation Information		
Method of Implementation (Organic): NACES Propellant		Installation Quantity: 398
Method of Implementation (Organic): Legacy Bleed Air Shutoff Valve		Installation Quantity: 198
Method of Implementation (Organic): Advanced Bleed Air Shutoff/Purge Valve		Installation Quantity: 18
Method of Implementation (Organic): Archived B Kits - Not Installed		Installation Quantity: 425
Footnotes: ⁽¹⁾ 1.1.1) Airframe Structural: Installation of kits will be completed in FY 2018 ⁽²⁾ 1.1.4) Nose Wheel Steering System: Accelerated procurement to start in FY 2019 to correct safety related deficiency of un-annunciated Nose Wheel Steering failure and associated hazard. ⁽³⁾ 1.1.7) Advanced Bleed Air Shutoff Valve: Required for the mitigation of T-45 physiological episodes. Effort migrated to OSIP 012-19 in FY 2019. ⁽⁴⁾ 2.1.2) Oxygen Concentrator (Hypoxia Prevention): Required for the mitigation of T-45 physiological episodes. Effort migrated to OSIP 012-19 in FY 2019. ⁽⁵⁾ 2.1.3) Legacy Bleed Air Shutoff Valve: Required for the mitigation of T-45 physiological episodes ⁽⁶⁾ 2.1.4) Advanced Bleed Air Shutoff/Purge Valve: Required for the mitigation of T-45 physiological episodes. Effort migrated to OSIP 012-19 in FY 2019. ⁽⁷⁾ 2.1.5) OBOGS Deficiency Correction: Required for the mitigation of T-45 physiological episodes. Effort migrated to OSIP 012-19 in FY 2019. ⁽⁸⁾ 3.5) ILS: Increase from PB18 to provide correct level of integrated logistics support associated with fatigue life extension (FLE) engineering change proposal. ⁽⁹⁾ 3.6) Other Support: Decrease due to the T-45 physiological episode mitigation effort migrated to OSIP 012-19 in FY 2019.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 2 / Engine Surge (OSIP 003-03)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	55.813	9.032	20.008	23.774	0.000	23.774	29.139	36.170	31.797	33.438	120.914	360.085
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	55.813	9.032	20.008	23.774	0.000	23.774	29.139	36.170	31.797	33.438	120.914	360.085
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	55.813	9.032	20.008	23.774	0.000	23.774	29.139	36.170	31.797	33.438	120.914	360.085
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) funds modifications to the T-45 training system to address the safety-of-flight risk known as surge stall. T-45 engine surge is a critical safety concern for a single engine training aircraft with over 900 surge events documented, including over 70 surges requiring engine shutdown and restart emergency action. All elements of the T-45 training system (wings, fuselage, engine, etc.) contribute to the incidences of surge stall. The F405 engine continues to experience surge stall events and the funding is for the recurring and non-recurring activities set forth in this OSIP that are on-going through the Future Years Defense Program (FYDP) and the out-years. Kits include modifications to air vehicle, engine and fuel control system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Retrofit kit procurements for inlet modifications began in FY 2018 with installations beginning in FY 2019. Non-Recurring Engineering efforts to modify the F405-RR-401 engine and fuel system begin in FY 2019 with kit procurement to start in FY 2023.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 2 / Engine Surge (OSIP 003-03)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45TS				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Engine Surge (OSIP 003-03)													
A Kits													
Recurring													
1.1.1) Airframe Kits - Organic 218 / 3.005 100 / 0.911 - / - - / - - / - - / - - / - - / - - / - - 318 / 3.916													
1.1.2) AF Inlet Mod Kits - NonOrganic 4 / 3.362 - / - 15 / 6.331 24 / 10.334 - / - 24 / 10.334 36 / 15.760 36 / 16.018 36 / 16.275 36 / 16.568 12 / 5.562 199 / 90.210													
1.1.3) Engine Kits O & I Level - Organic 41 / 0.142 41 / 0.185 41 / 0.180 56 / 0.381 - / - 56 / 0.381 20 / 0.224 20 / 0.228 20 / 0.232 20 / 0.236 100 / 1.240 359 / 3.048													
1.1.4) Fuel System Kits O&I - Organic (10) - / - - / - - / - - / - - / - - / - - / - 2 / 1.000 198 / 67.200 200 / 68.200													
1.1.5) Airframe Fuel System Kits - NonOrganic (11) - / - - / - - / - - / - - / - - / - - / - 2 / 0.250 198 / 10.080 200 / 10.330													
Subtotal: Recurring - / 6.509 - / 1.096 - / 6.511 - / 10.715 - / - - / 10.715 - / 15.984 - / 16.246 - / 16.507 - / 18.054 - / 84.082 - / 175.704													
Non-Recurring													
1.2.1) Non-Recurring Engineering - Organic (12) - / 25.787 - / 2.474 - / 0.125 - / 2.333 - / - - / 2.333 - / 2.855 - / 1.325 - / 2.513 - / 0.565 - / 0.720 - / 38.697													
Subtotal: Non-Recurring - / 25.787 - / 2.474 - / 0.125 - / 2.333 - / - - / 2.333 - / 2.855 - / 1.325 - / 2.513 - / 0.565 - / 0.720 - / 38.697													
B Kits													
Recurring													
2.1.1) Install Equipment - Organic - / 2.986 - / - - / 0.200 - / 0.202 - / - - / 0.202 - / 0.202 - / 0.202 - / 0.202 - / 0.204 - / 0.212 - / 4.410													
2.1.2) E-1 Harness - Organic - / - 199 / 0.795 - / - - / - - / - - / - - / - - / - - / - 199 / 0.795													
Subtotal: Recurring - / 2.986 - / 0.795 - / 0.200 - / 0.202 - / - - / 0.202 - / 0.202 - / 0.202 - / 0.202 - / 0.204 - / 0.212 - / 5.205													
Non-Recurring													
2.2.1) INSTALL EQUIPMENT N/R - Organic - / - - / - - / 0.924 - / 0.998 - / - - / 0.998 - / 1.014 - / 1.030 - / 1.042 - / 1.061 - / 5.886 - / 11.955													
Subtotal: Non-Recurring - / 0.000 - / - - / 0.924 - / 0.998 - / - - / 0.998 - / 1.014 - / 1.030 - / 1.042 - / 1.061 - / 5.886 - / 11.955													
Subtotal: Engine Surge (OSIP 003-03) 263 / 35.282 340 / 4.365 56 / 7.760 80 / 14.248 - / - 80 / 14.248 56 / 20.055 56 / 18.803 56 / 20.264 60 / 19.884 508 / 90.900 1,475 / 231.561													
Subtotal: Procurement, All Modification Items - / 35.282 - / 4.365 - / 7.760 - / 14.248 - / - - / 14.248 - / 20.055 - / 18.803 - / 20.264 - / 19.884 - / 90.900 - / 231.561													
Support (All Modification Items)													
3.2) Data (13) - / 0.536 - / 0.150 - / 2.457 - / 2.468 - / - - / 2.468 - / 2.509 - / 2.551 - / 2.594 - / 2.641 - / 7.054 - / 22.960													
3.3) Training Equipment - / 0.025 - / - - / - - / - - / - - / - - / - - / - - / - - / 0.025													
3.4) Support Equipment (14) - / 1.826 - / 0.134 - / 5.025 - / 1.573 - / - - / 1.573 - / 0.784 - / 1.797 - / 0.797 - / 3.022 - / 1.133 - / 16.091													
3.5) ILS (15) - / 0.865 - / 1.124 - / 0.479 - / 0.487 - / - - / 0.487 - / 0.496 - / 5.961 - / 3.682 - / 3.748 - / 1.591 - / 18.433													
3.6) Other Support - / 17.279 - / 3.199 - / 4.287 - / 4.158 - / - - / 4.158 - / 3.927 - / 4.969 - / 2.333 - / 1.978 - / 16.372 - / 58.502													
Subtotal: Support - / 20.531 - / 4.607 - / 12.248 - / 8.686 - / - - / 8.686 - / 7.716 - / 15.278 - / 9.406 - / 11.389 - / 26.150 - / 116.011													
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 2 / Engine Surge (OSIP 003-03)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Models of Systems Affected: T-45TS				Modification Type: PS Safety				Related RDT&E PEs:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Modification Item 1 of 1: Engine Surge (OSIP 003-03)	-	/ 0.000	-	/ 0.060	-	/ 0.000	-	/ 0.840	-	/ 0.000	-	/ 0.840	-	/ 1.368	-	/ 2.089	-	/ 2.127	-	/ 2.165	-	/ 3.364	-	/ 12.013																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Subtotal: Installation	-	/ 0.000	-	/ 0.060	-	/ -	-	/ 0.840	-	/ -	-	/ 0.840	-	/ 1.368	-	/ 2.089	-	/ 2.127	-	/ 2.165	-	/ 3.364	-	/ 12.013																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0569 / T-45 Series										Modification Number / Title: 2 / Engine Surge (OSIP 003-03)												
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																	
Modification Item 1 of 1: Engine Surge (OSIP 003-03)																																
Manufacturer Information																																
Manufacturer Name: TBD - Airframe Fuel System Kits															Manufacturer Location: TBD - Loc																	
Administrative Leadtime (in Months): 4															Production Leadtime (in Months): 9																	
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Contract Dates																						Jan 2023										
Delivery Dates																						Oct 2023										
Manufacturer Name: Boeing - AF Inlet Mod Kits															Manufacturer Location: St. Louis, MO																	
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 11																	
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
Contract Dates						Nov 2017				Nov 2018				Nov 2019				Nov 2020				Nov 2021				Nov 2022						
Delivery Dates						Oct 2018				Oct 2019				Oct 2020				Oct 2021				Nov 2022				Nov 2023						
Installation Information																																
Method of Implementation: Contractor Field Mod Team:: Installation Name: AF Inlet Mod Kits																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years		- / -	4 / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.060																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	15 / 0.840	0 / 0.000	15 / 0.840	- / -	- / -	- / -	- / -	0 / 0.000	15 / 0.840																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.368	- / -	- / -	- / -	0 / 0.000	24 / 1.368																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 2.089	- / -	- / -	0 / 0.000	36 / 2.089																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 2.127	- / -	0 / 0.000	36 / 2.127																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 2.165	0 / 0.000	36 / 2.165																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 2.204	36 / 2.204																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.735	12 / 0.735																			
Total		- / -	4 / 0.060	- / -	15 / 0.840	0 / 0.000	15 / 0.840	24 / 1.368	36 / 2.089	36 / 2.127	36 / 2.165	48 / 2.939	199 / 11.588																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot	
In	-	-	-	2	2	-	-	-	-	3	4	4	4	6	6	6	6	9	9	9	9	9	9	9	9	9	9	9	9	9	48	199
Out	-	-	-	2	2	-	-	-	-	3	4	4	4	6	6	6	6	9	9	9	9	9	9	9	9	9	9	9	9	9	48	199

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Exhibit P-3a, Individual Modification: PB 2019 Navy																				Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0569 / T-45 Series										Modification Number / Title: 2 / Engine Surge (OSIP 003-03)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Engine Surge (OSIP 003-03)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: Airframe Fuel System Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.004	2 / 0.004																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	198 / 0.421	198 / 0.421																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 0.425	200 / 0.425																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	200	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	200	
Method of Implementation (Organic): Airframe Kits															Installation Quantity: 318																
Method of Implementation (Organic): Engine Kits O & I Level															Installation Quantity: 359																
Method of Implementation (Organic): Fuel System Kits O&I															Installation Quantity: 200																
Method of Implementation (Organic): E-1 Harness															Installation Quantity: 199																
Footnotes:																															
(10) 1.1.4) Fuel System Kits O&I: Procurement delayed to FY 2023 due to schedule slip with Fuel System Analysis of Alternatives.																															
(11) 1.1.5) Airframe Fuel System Kits: Procurement delayed to FY 2023 due to schedule slip with Fuel System Analysis of Alternatives.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(12) 1.2.1) Non-Recurring Engineering: Fuel System Kits O&I slipped to start in FY 2019 due to schedule slip with Fuel System Analysis of Alternatives. Fuel System Kits O&I NRE drives the increase in FY 2019 and FY 2020. (13) 3.2) Data: FY 2018 and out increase required to correctly align technical publication updates resulting from inlet mod installation engineering instructions associated with variances in airframes. (14) 3.4) Support Equipment: Increase in FY 2018 due to ramping up of retrofit line and requirement of Support Equipment (SE) to support concurrent modifications. In FY 2023 it is estimated the inlet modification will necessitate a configuration change on SE to continue to support the retrofit line through the life of the installations. (15) 3.5) ILS: Cost increase in FY 2021 supports full rate retrofit and estimated number of engineering variations that will require OEM reachback and onsite engineering support. As modifications are completed, the variations will decrease.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	270.906	13.362	26.474	21.393	0.000	21.393	14.649	26.353	50.454	64.462	160.703	648.756
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	270.906	13.362	26.474	21.393	0.000	21.393	14.649	26.353	50.454	64.462	160.703	648.756
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	270.906	13.362	26.474	21.393	0.000	21.393	14.649	26.353	50.454	64.462	160.703	648.756
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) funds modifications to the T-45 training system to address Avionics obsolescence, performance, and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

This OSIP includes efforts that address avionics (and associated software), and supporting sub-system modifications and/or upgrades to address safety, reliability, maintainability, obsolescence and Diminishing Manufacturing Source (DMSMS) requirements. Modifications may also be driven by new cyber security requirements. Efforts also fund changes to training and support equipment to maintain aircraft concurrency and supportability.

Current Engineering Change Proposals (ECPs) include, but are not limited to: Mission Data Processor (MDP), Pilot Display Unit (PDU)/Heads-Up Display (HUD) and the HUD camera, Global Inertial Navigation Assembly (GINA), the ARC-182 radio, Avionics Corrections of Deficiencies, Almanac Loading System, communication systems, navigation systems and the Virtual Mission Training System (VMTS).

AVIONICS/GROUND BASED TRAINING SYSTEMS: Modifications to the Avionics will be required to update the MDP, PDU/Heads-Up Display (HUD) and the HUD camera, GINA, the ARC-182 radio and those avionic components associated with the affected aircraft systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continue incorporation of Engineering Change Proposals in FY 2019.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45TS A/C				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)													
A Kits													
Recurring													
1.1.1) Obsolescence Kits - NonOrganic		415 / 10.006	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 10.006	
1.1.2) DDS (CSMU/CP/DAU) - NonOrganic		169 / 1.391	32 / 0.230	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	201 / 1.621	
1.1.3) HUD Cameras - NonOrganic		- / -	9 / 0.009	65 / 0.066	65 / 0.067	- / -	65 / 0.067	60 / 0.063	- / -	- / -	- / -	199 / 0.205	
1.1.4) ARC - 182 Radio Obsolescence - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.020	40 / 0.407	40 / 0.407	115 / 1.171	197 / 2.005	
1.1.5) HUD/PDU Obsolescence - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.031	30 / 0.305	30 / 0.305	134 / 1.365	197 / 2.006	
1.1.6) Archive - Organic		- / 63.766	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 63.766	
Subtotal: Recurring		- / 75.163	- / 0.239	- / 0.066	- / 0.067	- / -	- / 0.067	- / 0.063	- / 0.051	- / 0.712	- / 0.712	- / 2.536	
Non-Recurring													
1.2.1) NR Engineering - Organic		- / 16.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.636	
1.2.2) Operational Flight Trainer (OFT) ECP - Organic		- / -	- / -	- / 0.260	- / 0.249	- / -	- / 0.249	- / -	- / -	- / -	- / -	- / 0.509	
Subtotal: Non-Recurring		- / 16.636	- / -	- / 0.260	- / 0.249	- / -	- / 0.249	- / -	- / -	- / -	- / 0.000	- / 17.145	
B Kits													
Recurring													
2.1.1) DDS (CSMU/CP/DAU) ECP-296JR1 - Organic		169 / 17.789	32 / 3.737	14 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	215 / 23.026	
2.1.2) DDS (MDTU) - Organic		240 / 0.195	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	240 / 0.195	
2.1.3) HUD Cameras - Organic ⁽¹⁶⁾		- / -	9 / 0.180	65 / 1.103	65 / 1.347	- / -	65 / 1.347	60 / 1.266	- / -	- / -	- / -	199 / 3.896	
2.1.4) Subsystems ECPs - Organic ⁽¹⁷⁾		100 / 4.199	- / -	28 / 1.729	30 / 1.853	- / -	30 / 1.853	28 / 1.729	28 / 1.760	50 / 3.206	- / -	264 / 14.476	
2.1.5) DMSMS ECPs - Organic ⁽¹⁸⁾		- / -	- / -	244 / 3.148	201 / 2.787	- / -	201 / 2.787	75 / 1.008	61 / 0.836	99 / 1.394	68 / 0.970	798 / 11.843	
2.1.6) ARC-182 Radio Obsolescence - Organic		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.600	45 / 13.613	40 / 12.216	110 / 18.784	197 / 45.213	
2.1.7) HUD PDU - Organic		- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.500	34 / 17.209	30 / 15.225	130 / 66.730	197 / 100.664	
2.1.8) Next Gen Multi Function Test Set - Organic		- / -	- / -	199 / 2.155	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 2.155	
2.1.9) Mission Display Processor - NonOrganic ⁽¹⁹⁾		- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.500	67 / 20.100	127 / 38.100	199 / 59.700	
2.1.10) Archived B Kits - Organic ⁽²⁰⁾		1,246 / 72.999	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,246 / 72.999	
Subtotal: Recurring		- / 95.182	- / 3.917	- / 9.635	- / 5.987	- / -	- / 5.987	- / 4.003	- / 4.696	- / 36.922	- / 48.511	- / 334.167	
Non-Recurring													
2.2.1) Subsystem ECPs - Organic ⁽²¹⁾		- / -	- / -	- / 3.000	- / 2.491	- / -	- / 2.491	- / 0.500	- / 0.500	- / 0.908	- / 2.618	- / 10.017	
2.2.2) DMSMS ECPs - Organic ⁽²²⁾		- / 4.273	- / 0.245	- / 3.768	- / 3.389	- / -	- / 3.389	- / 0.840	- / 1.027	- / 1.914	- / 1.948	- / 7.400	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: T-45TS A/C			Modification Type: PS Safety					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.2.3) DDS (DAU) - Organic	- / 2.176	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.676
2.2.4) ARC-182 Radio Obsolescence - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.000	- / -	- / -	- / -	- / 5.000
2.2.5) HUD PDU Obsolescence - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.585	- / -	- / -	- / -	- / 5.585
Subtotal: Non-Recurring	- / 6.449	- / 0.245	- / 7.268	- / 5.880	- / -	- / 5.880	- / 1.340	- / 12.112	- / 2.822	- / 4.566	- / 7.400	- / 48.082
Subtotal: Avionics Obsolescence (OSIP 017-04)	2,339 / 193.430	82 / 4.401	615 / 17.229	361 / 12.183	- / -	361 / 12.183	223 / 5.406	99 / 16.859	303 / 40.456	275 / 53.789	666 / 135.250	4,963 / 479.003
Subtotal: Procurement, All Modification Items	- / 193.430	- / 4.401	- / 17.229	- / 12.183	- / -	- / 12.183	- / 5.406	- / 16.859	- / 40.456	- / 53.789	- / 135.250	- / 479.003
Support (All Modification Items)												
3.3) Training Equipment	6 / 30.355	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 30.355
3.4) Support Equipment N/R	- / 0.720	- / -	- / 0.050	- / 0.054	- / -	- / 0.054	- / 0.060	- / 0.064	- / 0.069	- / 0.074	- / 0.250	- / 1.341
3.5) ILS	- / 16.647	- / 1.739	- / 2.700	- / 2.749	- / -	- / 2.749	- / 2.780	- / 2.848	- / 2.899	- / 2.952	- / 5.524	- / 40.838
3.6) Other Support	- / 26.955	- / 6.647	- / 6.113	- / 6.212	- / -	- / 6.212	- / 6.198	- / 6.299	- / 6.355	- / 6.402	- / 10.988	- / 82.169
Subtotal: Support	- / 74.677	- / 8.386	- / 8.863	- / 9.015	- / -	- / 9.015	- / 9.038	- / 9.211	- / 9.323	- / 9.428	- / 16.762	- / 154.703
Installation												
Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)	- / 2.799	- / 0.575	- / 0.382	- / 0.195	- / 0.000	- / 0.195	- / 0.205	- / 0.283	- / 0.675	- / 1.245	- / 8.691	- / 15.050
Subtotal: Installation	- / 2.799	- / 0.575	- / 0.382	- / 0.195	- / -	- / 0.195	- / 0.205	- / 0.283	- / 0.675	- / 1.245	- / 8.691	- / 15.050
Total												
Total Cost (Procurement + Support + Installation)	270.906	13.362	26.474	21.393	0.000	21.393	14.649	26.353	50.454	64.462	160.703	648.756

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series		Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Nov 2020	Nov 2021	Dec 2022
Delivery Dates					Jul 2021	Jul 2022	Jul 2023
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Dec 2020	Dec 2021	Dec 2022
Delivery Dates					Feb 2021	Feb 2022	Feb 2023
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 5				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Aug 2017	Feb 2018	Feb 2019	Feb 2020			
Delivery Dates	Mar 2018	Oct 2018	Oct 2019	Oct 2020			
Manufacturer Name: Various - Obsolescence Kits				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Physical Optics CORP - DDS (CSMU/CP/DAU)				Manufacturer Location: Torrance, CA			
Administrative Leadtime (<i>in Months</i>): 11				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Apr 2017						
Delivery Dates	Apr 2018						
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)

Installation Information

Method of Implementation: Contractor Depot Field Mod Team:: Installation Name: Obsolescence Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	400 / 2.113	15 / 0.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	415 / 2.166
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	400 / 2.113	15 / 0.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	415 / 2.166

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	400	10	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	415
Out	400	10	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	415

Method of Implementation: Contractor Field Mod Team:: Installation Name: DDS (CSMU/CP/DAU)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	100 / 0.686	59 / 0.522	10 / 0.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	169 / 1.290
FY 2017	- / -	- / -	32 / 0.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	32 / 0.273
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy			Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0569 / T-45 Series			Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:		

Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: DDS (CSMU/CP/DAU)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total	100 / 0.686	59 / 0.522	42 / 0.355	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	201 / 1.563

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	100	14	15	15	15	10	-	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	201
Out	100	14	15	15	15	10	-	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	201

Method of Implementation: Contractor Field Mod Team:: Installation Name: HUD Cameras

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	9 / 0.027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	9 / 0.027
FY 2018	- / -	- / -	- / -	65 / 0.195	0 / 0.000	65 / 0.195	- / -	- / -	- / -	- / -	0 / 0.000	65 / 0.195
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	65 / 0.205	- / -	- / -	- / -	0 / 0.000	65 / 0.205
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.198	- / -	- / -	0 / 0.000	60 / 0.198
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	9 / 0.027	65 / 0.195	0 / 0.000	65 / 0.195	65 / 0.205	60 / 0.198	- / -	- / -	0 / 0.000	199 / 0.625

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	9	-	-	16	16	17	16	16	16	17	16	15	15	15	15	-	-	-	-	-	-	-	-	-	199
Out	-	-	-	-	-	-	9	-	-	16	16	17	16	16	16	17	16	15	15	15	15	-	-	-	-	-	-	-	-	-	199

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:					

Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)

Installation Information

Method of Implementation: Drive In:: Installation Name: ARC - 182 Radio Obsolescence

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.034	- / -	- / -	0 / 0.000	2 / 0.034
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.225	25 / 0.375	0 / 0.000	40 / 0.600
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.300	20 / 0.300	40 / 0.600
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 1.725	115 / 1.725
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.034	15 / 0.225	45 / 0.675	135 / 2.025	197 / 2.959

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	15	12	13	-	20	135	197	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	15	12	13	-	20	135	197	

Method of Implementation: Drive in:: Installation Name: HUD/PDU Obsolescence

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.051	- / -	- / -	0 / 0.000	3 / 0.051
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.450	- / -	0 / 0.000	30 / 0.450
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.450	0 / 0.000	30 / 0.450
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	134 / 2.010	134 / 2.010

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0569 / T-45 Series										Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)																															
Installation Information																															
Method of Implementation: Drive in:: Installation Name: HUD/PDU Obsolescence																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.051	30 / 0.450	30 / 0.450	134 / 2.010	197 / 2.961																	
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	10	10	10	-	10	10	10	10	134	197
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	10	10	10	-	10	10	10	10	134	197
Method of Implementation: [none specified]:: Installation Name: Mission Display Processor																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.120	0 / 0.000	5 / 0.120																
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 1.608	67 / 1.608																	
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 3.048	127 / 3.048																	
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.120	194 / 4.656	199 / 4.776																
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	194	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	194	199

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)		
Installation Information		
Method of Implementation (Organic): DDS (CSMU/CP/DAU) ECP-296JR1		Installation Quantity: 215
Method of Implementation (Organic): DDS (MDTU)		Installation Quantity: 240
Method of Implementation (Organic): HUD Cameras		Installation Quantity: 199
Method of Implementation (Organic): Subsystems ECPs		Installation Quantity: 264
Method of Implementation (Organic): DMSMS ECPs		Installation Quantity: 798
Method of Implementation (Organic): ARC-182 Radio Obsolescence		Installation Quantity: 197
Method of Implementation (Organic): HUD PDU		Installation Quantity: 197
Method of Implementation (Organic): Next Gen Multi Function Test Set		Installation Quantity: 199
Method of Implementation (Organic): Archived B Kits - Not Installed		Installation Quantity: 1246
Footnotes: ⁽¹⁶⁾ 1.1.3) HUD Cameras: Kit procurement shifted right one year due to change in acquisition strategy, which caused delays in determining a technically acceptable solution. Kit procurement will begin in FY2018. ⁽¹⁷⁾ 2.1.4) Subsystem ECPs cost element encompasses multiple ECPs. ⁽¹⁸⁾ 2.1.5) DMSMS ECPs cost element encompasses multiple ECPs. ⁽¹⁹⁾ 2.1.9) Mission Display Processor: The current MDP is at 90% capacity and has several obsolete components. A MDP replacement is required to support operations to 2035, and to enable future capabilities such as RNP/RNAV, MCAC, and ADS-B (In). ⁽²⁰⁾ 2.1.10) Archived B Kits: The VMTS Software Mod NRE, Radar Altimeter, DDS (MDTU) NRE and HUD Cameras NRE cost elements have been archived. ⁽²¹⁾ 2.2.1) Subsystem ECPs non-recurring cost element encompasses multiple ECPs. Increase in FY 2023 for non-recurring engineering to support modification to the Virtual Mission Training System (VMTS). ⁽²²⁾ 2.2.2) DMSMS ECPs non-recurring cost element encompasses multiple ECPs.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	97.743	42.479	37.710	33.911	0.000	33.911	41.445	48.591	47.313	51.441	214.017	614.650
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	97.743	42.479	37.710	33.911	0.000	33.911	41.445	48.591	47.313	51.441	214.017	614.650
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	97.743	42.479	37.710	33.911	0.000	33.911	41.445	48.591	47.313	51.441	214.017	614.650
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety and Improvement Program (OSIP) funds modifications to the T-45 training system to address correction of deficiencies discovered in Service Life Assessment Program (SLAP), which identified risk areas that must be addressed in order to extend aircraft service life. Structural SLAP was completed during 1ST quarter 2012. Service Life Extension Program (SLEP): During Full Scale Development testing of the T45 aircraft it was determined that incorporation of redesigned components applicable to the critical load paths will significantly increase the service life of the aircraft. Correcting these areas is required to achieve the safe design life associated with the program of record. Non-Recurring Engineering for SLEP modifications, which ended in FY2017, determined changes required to improve structural details to increase aircraft service life to 21,600 flight hours at 150% Fatigue Life Expended (FLE). These SLEP modifications will enable Chief of Naval Air Training (CNATRA) pilot training requirements to be safely met until 2035. The other support in FY 2018 and beyond is to fund Government labor to perform engineering, test, logistics and financial management tasks, and to execute SLEP modifications associated with this OSIP. This support will be executed in accordance with the Federal Management Regulation and Naval Air Systems Command Policy. Development Status/Major Milestones: Retrofit kit procurements and installations for SLEP modifications continue in FY2019. The ILS in FY2018 and beyond is to fund the Original Equipment Manufacturer technical support of SLEP installations and onsite engineering support to adjudicate any anomalies found during SLEP retrofit in order to prevent incorporation stoppages on aircraft undergoing SLEP modifications.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45TS			Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities					Related RDT&E PEs: 0702207N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Service Life Extension Program (SLEP) (022-14)													
A Kits													
Recurring													
1.1.1) Structural SLEP - NonOrganic ⁽²³⁾		2 / 1.365	3 / 1.926	12 / 3.382	24 / 6.622	- / -	24 / 6.622	24 / 6.741	24 / 6.862	24 / 6.986	24 / 7.112	62 / 18.703	199 / 59.699
1.1.2) SLEP Wings - NonOrganic ⁽²⁴⁾		6 / 49.327	2 / 14.504	1 / 11.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 75.337
1.1.3) SLEP Canopies - Organic ⁽²⁵⁾		- / -	12 / 6.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 6.300
1.1.4) Navy Aircrew Common Ejection Seats (NACES) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 59.700	199 / 59.700
Subtotal: Recurring		- / 50.692	- / 22.730	- / 14.888	- / 6.622	- / -	- / 6.622	- / 6.741	- / 6.862	- / 6.986	- / 7.112	- / 78.403	- / 201.036
Non-Recurring													
1.2.1) Structural SLEP NRE - Organic		- / 22.475	- / 2.941	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.416
1.2.2) SLEP Wings NRE - Organic		- / 14.242	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.242
1.2.3) NACES SLEP NRE - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.100	- / -	- / -	- / 1.600	- / 3.700
Subtotal: Non-Recurring		- / 36.717	- / 2.941	- / -	- / -	- / -	- / -	- / -	- / 2.100	- / -	- / -	- / 1.600	- / 43.358
Subtotal: Service Life Extension Program (SLEP) (022-14)		8 / 87.409	17 / 25.671	13 / 14.888	24 / 6.622	- / -	24 / 6.622	24 / 6.741	24 / 8.962	24 / 6.986	24 / 7.112	261 / 80.003	419 / 244.394
Subtotal: Procurement, All Modification Items		- / 87.409	- / 25.671	- / 14.888	- / 6.622	- / -	- / 6.622	- / 6.741	- / 8.962	- / 6.986	- / 7.112	- / 80.003	- / 244.394
Support (All Modification Items)													
2.2) Data		- / -	- / 0.260	- / 0.258	- / 0.279	- / -	- / 0.279	- / 0.300	- / 0.324	- / 0.349	- / 0.376	- / 0.896	- / 3.042
2.4) Support Equipment ⁽²⁶⁾		- / 5.028	- / 5.827	- / 6.179	- / 2.107	- / -	- / 2.107	- / 2.145	- / 2.184	- / 2.223	- / 5.263	- / 5.951	- / 36.907
2.5) ILS ⁽²⁷⁾		- / 0.681	- / 3.836	- / 8.879	- / 8.321	- / -	- / 8.321	- / 8.470	- / 8.623	- / 8.778	- / 8.936	- / 23.500	- / 80.024
2.6) Other Support		- / 4.625	- / 3.372	- / 4.314	- / 4.209	- / -	- / 4.209	- / 4.193	- / 4.287	- / 4.330	- / 4.410	- / 12.405	- / 46.145
Subtotal: Support		- / 10.334	- / 13.295	- / 19.630	- / 14.916	- / -	- / 14.916	- / 15.108	- / 15.418	- / 15.680	- / 18.985	- / 42.752	- / 166.118
Installation													
Modification Item 1 of 1: Service Life Extension Program (SLEP) (022-14)		- / 0.000	- / 3.513	- / 3.192	- / 12.373	- / 0.000	- / 12.373	- / 19.596	- / 24.211	- / 24.647	- / 25.344	- / 91.262	- / 204.138
Subtotal: Installation		- / 0.000	- / 3.513	- / 3.192	- / 12.373	- / -	- / 12.373	- / 19.596	- / 24.211	- / 24.647	- / 25.344	- / 91.262	- / 204.138
Total													

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)					
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:							
Models of Systems Affected: T-45TS				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities				Related RDT&E PEs: 0702207N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Total Cost (Procurement + Support + Installation)		97.743	42.479	37.710	33.911	0.000	33.911	41.445	48.591	47.313	51.441	214.017	614.650

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series			Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)					
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Modification Item 1 of 1: Service Life Extension Program (SLEP) (022-14)												
Manufacturer Information												
Manufacturer Name: Boeing - Structural SLEP and SLEP Wing ⁽²⁸⁾						Manufacturer Location: St. Louis						
Administrative Leadtime (in Months): 1						Production Leadtime (in Months): 9						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Sep 2017	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022					
Delivery Dates	Jul 2018	Sep 2018	Sep 2019	Sep 2020	Sep 2021	Sep 2022	Sep 2023					
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime (in Months): 0						Production Leadtime (in Months): 0						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Contractor Field Mod Team:: Installation Name: SLEP Installs												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 3.513	1 / 0.312	2 / 0.646	0 / 0.000	2 / 0.646	2 / 0.657	1 / 0.334	- / -	- / -	0 / 0.000	8 / 5.462
FY 2017	- / -	- / -	3 / 2.880	- / -	- / -	- / -	- / -	- / -	1 / 0.340	1 / 0.300	0 / 0.000	5 / 3.520
FY 2018	- / -	- / -	- / -	12 / 11.727	0 / 0.000	12 / 11.727	- / -	- / -	- / -	1 / 0.300	0 / 0.000	13 / 12.027
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	24 / 18.939	- / -	- / -	- / -	0 / 0.000	24 / 18.939
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 23.877	- / -	- / -	0 / 0.000	24 / 23.877
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 24.307	- / -	0 / 0.000	24 / 24.307
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 24.744	0 / 0.000	24 / 24.744
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 25.189	24 / 25.189
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 65.073	62 / 65.073
Total	- / -	2 / 3.513	4 / 3.192	14 / 12.373	0 / 0.000	14 / 12.373	26 / 19.596	25 / 24.211	25 / 24.647	26 / 25.344	86 / 90.262	208 / 203.138

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Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018										
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0569 / T-45 Series											Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)										
ID Code (A=Service Ready, B=Not Service Ready) :																MDAP/MAIS Code:																
Modification Item 1 of 1: Service Life Extension Program (SLEP) (022-14)																																
Installation Information																																
Method of Implementation: Contractor Field Mod Team:: Installation Name: SLEP Installs																																
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
In	-	-	1	1	-	-	-	-	4	4	4	3	3	6	6	7	7	7	6	6	6	6	6	6	6	7	6	6	6	8	86	208
Out	-	-	-	1	1	-	-	-	1	4	4	3	3	3	6	7	7	7	6	6	6	-	6	6	7	6	6	6	8	98	208	
Method of Implementation: [none specified]:: Installation Name: Navy Aircrew Common Ejection Seats (NACES)																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 1.000	199 / 1.000																			
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 1.000	199 / 1.000																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	199		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	199		
Method of Implementation (Organic): SLEP Canopies														Installation Quantity: 12																		
Footnotes:																																

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(23) 1.1.1) Change in SLEP A kit costs is based on proposal received for kits in July 2017. (24) 1.1.2) SLEP Wings: FY 2018 wing unit cost increase is due to finishing of Hawk production that helped drive down fixed production costs for the T-45 program. Install schedule aligns with staggered delivery dates. (25) 1.1.3) SLEP Canopies: Required as part of the SLEP retrofit incorporations to ensure that all aircraft will meet the service life goal of 21,600 flight hours (26) 2.4) Support Equipment: Changes in SE line are due to proposal received in July 2017. FY 2017 and FY2018 require more funds due to initial ramp up of support equipment and special tooling to support concurrent modifications. (27) 2.5) ILS: Increase in FY 2017 - FY 2019 based on proposal received in July 2017. ILS line will be used to fund the OEM reachback and onsite engineering support for SLEP Phase 2. This line is to adjudicate engineering variations in SLEP aircraft as well as OEM kitting support. (28) Installations: Installations will be installed concurrently with various contract dates, Administrative Leadtime and Production Leadtime.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.501	18.714	39.816	58.148	0.000	58.148	55.650	28.778	17.926	9.023	12.169	241.725
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.501	18.714	39.816	58.148	0.000	58.148	55.650	28.778	17.926	9.023	12.169	241.725
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.501	18.714	39.816	58.148	0.000	58.148	55.650	28.778	17.926	9.023	12.169	241.725
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety and Improvement Program (OSIP) funds modifications to the T-45 training system (T-45TS) in support of the Required Avionics Sustainment Program (RASP), which includes Automatic Dependent Surveillance-Broadcast (ADS-B Out) as Phase I of this effort. The Federal Aviation Administration (FAA) has developed a plan to modernize the National Airspace System (NAS) in order to address the impact of air traffic growth in the United States. The FAA has mandated compliance with this plan by January 1, 2020. This plan, part of the FAA's Next Generation Air Transportation System (NextGen) Airspace, is intended to increase the air traffic capacity while at the same time improving safety and efficiency. In part, NextGen implements a process called Performance Based Navigation (PBN). In accordance with the concepts of PBN, an aircraft's navigation performance capability will be a determining factor as to whether or not it can fly within specific airspace, certain air traffic routes or instrument procedures. Also, NextGen transforms the NAS from a radar based system, with aircraft interrogation, to a satellite based system utilizing Automatic Dependent Surveillance-Broadcast (ADS-B) communication in order to transmit the aircraft's own position. In order for the T-45 to continue to have unrestricted access to the NAS through the year 2035, the T-45TS must be modified to avoid impacts to Chief of Naval Air Training (CNATRA) Strike Pilot and Naval Flight Officer (NFO) training. Required Avionics Sustainment Program (RASP) Phase I ADS-B Out: The first Phase of RASP will modify the T-45 with ADS-B Out capability, in compliance with FAA NAS mandate stipulated in DoT/FAA, 14 CFR Part 91: ADS-B Out Performance Requirements to Support Air Traffic Control (ATC) Service Final Rule, May 28, 2010. This modification consists of the minimum required capability increase necessary to enable ADS-B Out, equipping 197 T-45 aircraft and 18 simulators to meet FAA NAS mandates. The ADS-B Out capability requires the modification of the existing antennas and the Mission Display Processor (MDP) Operational Flight Program (OFP) software as well as changes to the simulator and any associated support equipment. It also requires integration with the replacement to the Transponder (with associated data bus connectivity and control), changes to the pilot interface and the replacement Air Data Computer. Additionally, the T-45 Navigation source (Global Positioning System ((GPS))) will be updated to address obsolescence. Replacement is necessary to ensure compliance with FAA NextGen requirements. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2019 continues aircraft modification on the T-45TS for ADS-B Out and NextGen compliance and provides funding for integration and systems engineering in support of FAA certification.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T45TS				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities				Related RDT&E PEs: 0603208N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Required Avionics Sustainment Program (RASP) (006-16)													
A Kits													
Recurring													
1.1.1) Transponder - NonOrganic ⁽²⁹⁾	- / -	- / -	20 / 0.327	83 / 1.360	- / -	83 / 1.360	84 / 1.379	7 / 0.115	- / -	- / -	- / -	194 / 3.181	
1.1.2) GPS - NonOrganic ⁽³⁰⁾	- / -	- / -	7 / 0.182	35 / 0.915	- / -	35 / 0.915	65 / 1.702	35 / 0.918	59 / 1.551	- / -	- / -	201 / 5.268	
1.1.3) Antennas - NonOrganic	3 / 0.001	- / -	20 / 0.060	83 / 0.250	- / -	83 / 0.250	84 / 0.254	7 / 0.021	- / -	- / -	- / -	197 / 0.586	
1.1.4) Air Data Computer - NonOrganic	- / -	- / -	20 / 0.161	83 / 0.668	- / -	83 / 0.668	84 / 0.677	7 / 0.057	- / -	- / -	- / -	194 / 1.563	
1.1.5) GBTS - NonOrganic	- / -	2 / 0.002	4 / 0.004	5 / 0.005	- / -	5 / 0.005	1 / 0.001	- / -	- / -	- / -	- / -	12 / 0.012	
Subtotal: Recurring	- / 0.001	- / 0.002	- / 0.734	- / 3.198	- / -	- / 3.198	- / 4.013	- / 1.111	- / 1.551	- / -	- / 0.000	- / 10.610	
Non-Recurring													
1.2.1) A kit N/R - NonOrganic	- / 0.698	- / 3.200	- / 4.203	- / 2.745	- / -	- / 2.745	- / -	- / -	- / -	- / -	- / -	- / 10.846	
1.2.2) GBTS A Kit N/R - NonOrganic	- / 0.200	- / 0.693	- / 0.720	- / 0.405	- / -	- / 0.405	- / -	- / -	- / -	- / -	- / -	- / 2.018	
Subtotal: Non-Recurring	- / 0.898	- / 3.893	- / 4.923	- / 3.150	- / -	- / 3.150	- / -	- / -	- / -	- / -	- / 0.000	- / 12.864	
B Kits													
Recurring													
2.1.1) Transponder - Organic	- / -	- / -	20 / 3.232	83 / 13.435	- / -	83 / 13.435	84 / 13.622	7 / 1.137	- / -	- / -	- / -	194 / 31.426	
2.1.2) GPS - Organic	- / -	- / -	7 / 1.059	35 / 5.314	- / -	35 / 5.314	65 / 9.886	35 / 5.333	59 / 9.006	- / -	- / -	201 / 30.598	
2.1.3) Air Data Computer - Organic	- / -	- / -	20 / 1.626	83 / 6.759	- / -	83 / 6.759	84 / 6.853	7 / 0.572	- / -	- / -	- / -	194 / 15.810	
2.1.4) GBTS - Organic	- / -	2 / 0.056	4 / 0.112	5 / 0.141	- / -	5 / 0.141	1 / 0.028	- / -	- / -	- / -	- / -	12 / 0.337	
Subtotal: Recurring	- / 0.000	- / 0.056	- / 6.029	- / 25.649	- / -	- / 25.649	- / 30.389	- / 7.042	- / 9.006	- / -	- / 0.000	- / 78.171	
Non-Recurring													
2.2.1) B Kit N/R - NonOrganic	- / -	- / 9.831	- / 7.193	- / 2.113	- / -	- / 2.113	- / -	- / -	- / -	- / -	- / -	- / 19.137	
2.2.2) GBTS B Kit N/R - NonOrganic	- / 0.200	- / 2.363	- / 4.367	- / 1.371	- / -	- / 1.371	- / -	- / -	- / -	- / -	- / -	- / 8.301	
Subtotal: Non-Recurring	- / 0.200	- / 12.194	- / 11.560	- / 3.484	- / -	- / 3.484	- / -	- / -	- / -	- / -	- / 0.000	- / 27.438	
Subtotal: Required Avionics Sustainment Program (RASP) (006-16)	3 / 1.099	4 / 16.145	122 / 23.246	495 / 35.481	- / -	495 / 35.481	552 / 34.402	105 / 8.153	118 / 10.557	- / -	- / -	1,399 / 129.083	
Subtotal: Procurement, All Modification Items	- / 1.099	- / 16.145	- / 23.246	- / 35.481	- / -	- / 35.481	- / 34.402	- / 8.153	- / 10.557	- / -	- / 0.000	- / 129.083	
Support (All Modification Items)													

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LI 0569 - T-45 Series
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: Required Avionics Sustainment Program (RASP) (006-16)												
Manufacturer Information												
Manufacturer Name: Various - Transponder, GPS, Antennas and ADC							Manufacturer Location: Various					
Administrative Leadtime (in Months): 1							Production Leadtime (in Months): 11					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates		Oct 2017	Oct 2018	Oct 2019	Oct 2020							
Delivery Dates		Sep 2018	Sep 2019	Sep 2020	Sep 2021							
Manufacturer Name: TBD - Ground Based Training Systems							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 1							Production Leadtime (in Months): 11					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019								
Delivery Dates	Sep 2017	Sep 2018	Sep 2019	Sep 2020								
Manufacturer Name: TBD ⁽³¹⁾							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 1							Production Leadtime (in Months): 12					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates		Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021						
Delivery Dates		Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022						
Installation Information												
Method of Implementation: Contractor Field Mod Team:: Installation Name: Transponder, Antennas, ADC												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	3 / 0.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.153
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	12 / 0.642	48 / 2.694	0 / 0.000	48 / 2.694	- / -	- / -	- / -	- / -	0 / 0.000	60 / 3.336
FY 2019	- / -	- / -	- / -	78 / 4.380	0 / 0.000	78 / 4.380	171 / 10.080	- / -	- / -	- / -	0 / 0.000	249 / 14.460
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	81 / 4.776	171 / 10.584	- / -	- / -	0 / 0.000	252 / 15.360
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 1.299	- / -	- / -	0 / 0.000	21 / 1.299
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	15 / 0.795	126 / 7.074	0 / 0.000	126 / 7.074	252 / 14.856	192 / 11.883	- / -	- / -	0 / 0.000	585 / 34.608

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Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0569 / T-45 Series												Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: Required Avionics Sustainment Program (RASP) (006-16)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: Transponder, Antennas, ADC																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	2	-	13	-	16	32	78	63	63	45	81	84	87	-	21	-	-	-	-	-	-	-	-	-	585
Out	-	-	-	-	-	-	2	-	13	-	16	32	78	63	63	45	81	84	87	-	21	-	-	-	-	-	-	-	-	-	585
Method of Implementation: Drive in:: Installation Name: GPS																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		3 / 0.168		0 / 0.000		3 / 0.168		- / -		- / -		- / -		- / -		- / -		0 / 0.000		3 / 0.168					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		35 / 2.063		- / -		- / -		- / -		- / -		0 / 0.000		35 / 2.063					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		65 / 4.023		- / -		- / -		- / -		0 / 0.000		65 / 4.023					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		35 / 2.275		- / -		- / -		0 / 0.000		35 / 2.275					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		59 / 3.835		0 / 0.000		59 / 3.835					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		3 / 0.168		0 / 0.000		3 / 0.168		35 / 2.063		65 / 4.023		35 / 2.275		59 / 3.835		0 / 0.000		197 / 12.364							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	3	-	-	-	3	10	10	12	16	16	16	17	9	9	9	8	14	15	15	15	-	197
Out	-	-	-	-	-	-	-	-	-	3	-	-	-	3	10	10	12	16	16	16	17	9	9	9	8	14	15	15	15	-	197

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Required Avionics Sustainment Program (RASP) (006-16)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: GBTS

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	2 / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.023
FY 2018	- / -	- / -	- / -	4 / 0.049	0 / 0.000	4 / 0.049	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.049
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.064	- / -	- / -	- / -	0 / 0.000	5 / 0.064
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.013	- / -	- / -	0 / 0.000	1 / 0.013
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.023	4 / 0.049	0 / 0.000	4 / 0.049	5 / 0.064	1 / 0.013	- / -	- / -	0 / 0.000	12 / 0.149

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	-	-	1	1	1	1	1	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	12
Out	-	-	-	-	-	1	-	-	1	1	1	1	1	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	12

Method of Implementation (Organic): Transponder - Not Installed	Installation Quantity: 194

Method of Implementation (Organic): GPS - Not Installed	Installation Quantity: 201

Method of Implementation (Organic): Air Data Computer - Not Installed	Installation Quantity: 194

Method of Implementation (Organic): GBTS - Not Installed	Installation Quantity: 12

Footnotes:
(29) 1.1.1) Transponder: Test articles utilized during development are anticipated to be able to remain on aircraft resulting in 197 compliant aircraft.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(30) 1.1.2) GPS: 4 GPS procured in FY 2018 are lab assets and will not be installed in aircraft. (31) 4 GPS procured in FY 2018 are lab assets and will not be installed in aircraft.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 6 / Physiological Episode Mitigation		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	40.377	0.000	40.377	48.302	5.417	1.650	1.611	0.000	97.357
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	40.377	0.000	40.377	48.302	5.417	1.650	1.611	0.000	97.357
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	40.377	0.000	40.377	48.302	5.417	1.650	1.611	0.000	97.357
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety and Improvement Program (OSIP) funds modifications to the T-45 training system to address aircrew physiological episodes (PE). PEs have been increasing in number since formal reporting commenced in 2012, reaching a high of 10 events reported in a 30 day period in March 2017. All aircraft systems that contribute to aircrew life support can be causal factors in physiological events. This includes the Onboard Oxygen Generating System (OBOGS) and all associated piping, valves, and monitors, the Environmental Control System (ECS), engine bleed air delivered to the OBOGS and ECS piping, and aircrew alerting systems to warn of failures. Modifications to the aircraft will focus on addressing the highest likelihood causal factors for PEs. These include, but are not limited to, an Automatic Backup Oxygen System (ABOS), new Bleed Air Shutoff Valve (BASOV), new oxygen concentrator (GGU-25), new discrete pressure alerting, OBOGS component improvements to reduce pressure loss, ECS improvements to prevent rapid cockpit decompression, cabin altitude monitoring and alerting, and air quality monitoring and filtration. PE Mitigation efforts prior to FY 2019 were funded out of OSIP 008-95 Corrections of Deficiencies. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2019 and out funds provide for non-recurring engineering, kit procurement, and installation in support of T-45 physiological episode mitigation.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 6 / Physiological Episode Mitigation				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: T-45TS			Modification Type: PS Safety					Related RDT&E PEs: 0603208N				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: Physiological Episode Mitigation												
A Kits												
Recurring												
1.1.1) Advanced Bleed Air Shutoff Valve - NonOrganic (32)	- / -	- / -	- / -	100 / 0.500	- / -	100 / 0.500	78 / 0.404	- / -	- / -	- / -	- / -	178 / 0.904
1.1.2) Automatic Backup Oxygen System - NonOrganic (33)	- / -	- / -	- / -	16 / 3.520	- / -	16 / 3.520	120 / 27.350	- / -	- / -	- / -	- / -	136 / 30.870
1.1.3) Discrete Pressure Caution - NonOrganic (34)	- / -	- / -	- / -	150 / 1.800	- / -	150 / 1.800	24 / 0.298	- / -	- / -	- / -	- / -	174 / 2.098
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 5.820	- / -	- / 5.820	- / 28.052	- / -	- / -	- / -	- / 0.000	- / 33.872
Non-Recurring												
1.2.1) Advanced Bleed Air Shutoff Valve NRE - Organic	- / -	- / -	- / -	- / 1.400	- / -	- / 1.400	- / 0.400	- / -	- / -	- / -	- / -	- / 1.800
1.2.2) Automatic Backup Oxygen System NRE - Organic	- / -	- / -	- / -	- / 18.520	- / -	- / 18.520	- / 2.500	- / -	- / -	- / -	- / -	- / 21.020
1.2.3) Oxygen Delivery Pressure Correction NRE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.157	- / -	- / -	- / -	- / -	- / 4.157
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 19.920	- / -	- / 19.920	- / 7.057	- / -	- / -	- / -	- / 0.000	- / 26.977
B Kits												
Recurring												
2.1.1) Oxygen Concentrator (Hypoxia Prevention) - NonOrganic (35)	- / -	- / -	- / -	57 / 2.626	- / -	57 / 2.626	60 / 2.810	80 / 3.807	- / -	- / -	- / -	197 / 9.243
2.1.2) Advanced Bleed Air Shutoff Valve - Organic	- / -	- / -	- / -	100 / 1.250	- / -	100 / 1.250	78 / 1.010	- / -	- / -	- / -	- / -	178 / 2.260
2.1.3) Automatic Backup Oxygen System - Organic	- / -	- / -	- / -	16 / 0.480	- / -	16 / 0.480	120 / 3.730	- / -	- / -	- / -	- / -	136 / 4.210
2.1.4) OBOGS Deficiency Corrections - NonOrganic (36)	- / -	- / -	- / -	119 / 4.463	- / -	119 / 4.463	- / -	- / -	- / -	- / -	- / -	119 / 4.463
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 8.819	- / -	- / 8.819	- / 7.550	- / 3.807	- / -	- / -	- / 0.000	- / 20.176
Non-Recurring												
2.2.1) Advanced Bleed Air Shutoff Valve NRE - Organic	- / -	- / -	- / -	- / 1.600	- / -	- / 1.600	- / 0.500	- / -	- / -	- / -	- / -	- / 2.100
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 1.600	- / -	- / 1.600	- / 0.500	- / -	- / -	- / -	- / 0.000	- / 2.100
Subtotal: Physiological Episode Mitigation	- / -	- / -	- / -	558 / 36.159	- / -	558 / 36.159	480 / 43.159	80 / 3.807	- / -	- / -	- / -	1,118 / 83.125
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 36.159	- / -	- / 36.159	- / 43.159	- / 3.807	- / -	- / -	- / 0.000	- / 83.125
Support (All Modification Items)												
3.5) Other Support	- / -	- / -	- / -	- / 1.500	- / -	- / 1.500	- / 1.527	- / 1.544	- / 1.582	- / 1.611	- / -	- / 7.764
Subtotal: Support	- / 0.000	- / -	- / -	- / 1.500	- / -	- / 1.500	- / 1.527	- / 1.544	- / 1.582	- / 1.611	- / 0.000	- / 7.764

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 6 / Physiological Episode Mitigation				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: T-45TS			Modification Type: PS Safety					Related RDT&E PEs: 0603208N				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation												
Modification Item 1 of 1: Physiological Episode Mitigation	- / 0.000	- / 0.000	- / 0.000	- / 2.718	- / 0.000	- / 2.718	- / 3.616	- / 0.066	- / 0.068	- / 0.000	- / 0.000	- / 6.468
Subtotal: Installation	- / 0.000	- / -	- / -	- / 2.718	- / -	- / 2.718	- / 3.616	- / 0.066	- / 0.068	- / -	- / 0.000	- / 6.468
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	40.377	0.000	40.377	48.302	5.417	1.650	1.611	0.000	97.357

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0569 / T-45 Series		Modification Number / Title: 6 / Physiological Episode Mitigation		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: Physiological Episode Mitigation							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Oct 2018	Oct 2019			
Delivery Dates			Nov 2018	Nov 2019			
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019			
Delivery Dates			Oct 2019	Oct 2020			
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Oct 2018	Oct 2019			
Delivery Dates			Nov 2018	Nov 2019			
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Oct 2018	Oct 2019			
Delivery Dates			Nov 2018	Nov 2019			
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Oct 2018	Oct 2019			
Delivery Dates			Nov 2018	Nov 2019			

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Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 6 / Physiological Episode Mitigation																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: Physiological Episode Mitigation																															
Installation Information																															
Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: Advanced Bleed Air Shutoff Valve																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	100 / 0.650	0 / 0.000	100 / 0.650	- / -	- / -	- / -	- / -	0 / 0.000	100 / 0.650																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	78 / 0.522	- / -	- / -	- / -	0 / 0.000	78 / 0.522																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	- / -	- / -	- / -	100 / 0.650	0 / 0.000	100 / 0.650	78 / 0.522	- / -	- / -	- / -	0 / 0.000	178 / 1.172																			
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	25	25	25	25	19	19	20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	178
Out	-	-	-	-	-	-	-	-	-	25	25	25	25	19	19	20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	178
Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: Automatic Backup Oxygen System																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	16 / 0.400	0 / 0.000	16 / 0.400	- / -	- / -	- / -	- / -	0 / 0.000	16 / 0.400																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	120 / 3.000	- / -	- / -	- / -	0 / 0.000	120 / 3.000																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			

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Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0569 / T-45 Series										Modification Number / Title: 6 / Physiological Episode Mitigation											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Physiological Episode Mitigation																															
Installation Information																															
Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: Automatic Backup Oxygen System																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
Total		- / -	- / -	- / -	16 / 0.400	0 / 0.000	16 / 0.400	120 / 3.000	- / -	- / -	- / -	0 / 0.000	136 / 3.400																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	4	4	4	4	30	30	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	136
Out	-	-	-	-	-	-	-	-	-	4	4	4	4	30	30	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	136
Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: Discrete Pressure Caution																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	150 / 0.180	0 / 0.000	150 / 0.180	- / -	- / -	- / -	- / -	- / -	0 / 0.000	150 / 0.180																	
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.029	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.029																	
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	150 / 0.180	0 / 0.000	150 / 0.180	24 / 0.029	- / -	- / -	- / -	- / -	0 / 0.000	174 / 0.209																	
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	37	38	37	38	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	174
Out	-	-	-	-	-	-	-	-	-	37	38	37	38	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	174

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 6 / Physiological Episode Mitigation

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Physiological Episode Mitigation

Installation Information

Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: Oxygen Concentrator (Hypoxia Prevention)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	57 / 0.065	- / -	- / -	- / -	0 / 0.000	57 / 0.065
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.066	- / -	- / -	0 / 0.000	60 / 0.066
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 0.068	- / -	0 / 0.000	80 / 0.068
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	57 / 0.065	60 / 0.066	80 / 0.068	- / -	0 / 0.000	197 / 0.199

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	15	15	15	15	15	20	20	20	20	-	-	-	-	-	197
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	15	15	15	15	15	20	20	20	20	-	-	-	-	-	197

Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: OBOGS Deficiency Corrections

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	119 / 1.488	0 / 0.000	119 / 1.488	- / -	- / -	- / -	- / -	0 / 0.000	119 / 1.488
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																												
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0569 / T-45 Series										Modification Number / Title: 6 / Physiological Episode Mitigation																		
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																							
Modification Item 1 of 1: Physiological Episode Mitigation																																						
Installation Information																																						
Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: OBOGS Deficiency Corrections																																						
Installation Cost															Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total	
															Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)	
Total															- / -		- / -		- / -		119 / 1.488		0 / 0.000		119 / 1.488		- / -		- / -		- / -		0 / 0.000		119 / 1.488			
Installation Schedule																																						
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot							
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4									
In	-	-	-	-	-	-	-	-	-	29	30	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	119							
Out	-	-	-	-	-	-	-	-	-	29	30	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	119							
Method of Implementation (Organic): Advanced Bleed Air Shutoff Valve																				Installation Quantity: 178																		
Method of Implementation (Organic): Automatic Backup Oxygen System																				Installation Quantity: 136																		
Footnotes: ⁽³²⁾ 1.1.1) Advanced Bleed Air Shutoff Valve: Effort migrated from OSIP 008-95 in FY 2019. ⁽³³⁾ 1.1.2) Automatic Backup Oxygen System: Required for the mitigation of T-45 physiological episodes. ⁽³⁴⁾ 1.1.3) Discrete Pressure Caution: Required for the mitigation of T-45 physiological episodes. ⁽³⁵⁾ 2.1.1) Oxygen Concentrator (Hypoxia Prevention): Effort migrated from OSIP 008-95 in FY 2019. ⁽³⁶⁾ 2.1.4) OBOGS Deficiency Correction: Effort migrated from OSIP 008-95 in FY 2019.																																						

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 7 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	93.874	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.874
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	93.874	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.874
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	93.874	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.874
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs												

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 7 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0570 / Power Plant Changes					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	613.235	17.871	19.827	21.521	0.000	21.521	21.086	21.406	21.668	22.102	16.810	775.526
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	613.235	17.871	19.827	21.521	0.000	21.521	21.086	21.406	21.668	22.102	16.810	775.526
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	613.235	17.871	19.827	21.521	0.000	21.521	21.086	21.406	21.668	22.102	16.810	775.526
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modifications to all in-service aircraft engines. Power Plant Changes (PPC) are required throughout the service life of each aircraft to correct flight deficiencies and improve operational readiness while reducing engine operating costs. This program finances the procurement and installation of retrofit kits for all Navy and Marine Corp aircraft engines and related propulsion hardware such as propellers, starters and transmissions . The overall goal of the modifications budgeted in FY 2019 is to continue modification efforts previously initiated on the engines for the AV-8B, F/A-18C/D & E/F, EA-18G, F-16, H-60, H-53, EA-6B, T-3, T-45, P-3, P-8A, E-2C, E-2D, C-2A, C-130, UH-1Y, AH-1Z, AH-1W, JSF, H-53 and V-22.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0570 / Power Plant Changes				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Power Plant Changes (Approx. 80% Safety, 20% Reliability)				- / 613.235	- / 17.871	- / 19.827	- / 21.521	- / 0.000	- / 21.521
P-40	Total Gross/Weapon System Cost				- / 613.235	- / 17.871	- / 19.827	- / 21.521	- / 0.000	- / 21.521
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Power Plant Changes (Approx. 80% Safety, 20% Reliability)				- / 21.086	- / 21.406	- / 21.668	- / 22.102	- / 16.810	- / 775.526
P-40	Total Gross/Weapon System Cost				- / 21.086	- / 21.406	- / 21.668	- / 22.102	- / 16.810	- / 775.526
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
 FY 2019 funding for procurement and installation of retrofit kits for all Navy and Marine Corp aircraft engines and related propulsion hardware. The FY 2019 funding request was reduced by \$0.464M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0570 / Power Plant Changes				Modification Number / Title: 1 / Power Plant Changes			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	613.235	17.871	19.827	21.521	0.000	21.521	21.086	21.406	21.668	22.102	16.810	775.526
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	613.235	17.871	19.827	21.521	0.000	21.521	21.086	21.406	21.668	22.102	16.810	775.526
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	613.235	17.871	19.827	21.521	0.000	21.521	21.086	21.406	21.668	22.102	16.810	775.526
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program corrects aircraft flight safety deficiencies, improves operational fleet readiness, and reduces engine total cost of ownership by incorporating approved power plant changes. Power plant changes are required throughout the aircraft service life as the engine ages and operationally revealed deficiencies are discovered, researched, and solutions engineered. Propulsion and Power (P&P) Component Improvement Program (CIP), which is funded in Research Development Test & Evaluation, Navy develops and demonstrates engineering solutions to these deficiencies and through the Engineering Change Proposal (ECP) process, initiates Power Plant Change. The Power Plant Change program procures the necessary retrofit kits, support equipment, kit installation and technical data. This program provides retrofit kits for all Navy and Marine Corp aircraft engines and propulsion related hardware such as propellers, starters, generators and transmissions. Reliability Improvements are designed to increase Mean Time Between Failure and Mean Time Between Engine Removal by 30% on average and are expected to generate savings /costs avoidance in excess of \$50M annually. Aircraft engines included in Power Plant Change include: F402 Engine AV/8B, F404 Engine F/A18, F414 Engine F/A 18 E/F and EA-18G, J52, T400 Engine AH-1W and UH-1N, AE1107 Engine V-22, T56 Engine P-3, C-2, E-2D and C130, T-64 Engine H-53, T700 Engine H-60 and AH-1, CFM56-7B Engine P8A T408 Engine H-53K, T406 Engine V-22.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0570 / Power Plant Changes					Modification Number / Title: 1 / Power Plant Changes				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Power Plant Changes			Modification Type: Approx. 80% Safety, 20% Reliability					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Power Plant Changes													
B Kits													
Recurring													
1.1.1) F405 T45 - NonOrganic - / 0.236 - / - - / - - / - - / - - / - / - - / - - - / - - - / - - - / 0.236													
1.1.2) CFM 56-7B - NonOrganic - / 1.481 - / 0.520 - / 0.529 - / 0.539 - / - - / 0.539 - / 0.549 - / 0.549 - / 0.560 - / 0.570 - / 1.510 - / 6.807													
1.1.3) F402 AV8B - NonOrganic (1) - / 29.772 - / 1.435 - / 1.701 - / 1.734 - / - - / 1.734 - / 1.765 - / 1.765 - / 1.799 - / 1.807 - / 2.000 - / 43.778													
1.1.4) F404 F/A 18 - NonOrganic (2) - / 28.815 - / 2.900 - / 2.900 - / 2.958 - / - - / 2.958 - / 2.263 - / 1.956 - / 1.956 - / 1.956 - / 2.000 - / 47.704													
1.1.5) F414 F/A 18 E/F - NonOrganic (3) - / 20.548 - / 2.033 - / 2.726 - / 2.808 - / - - / 2.808 - / 2.901 - / 2.901 - / 2.916 - / 2.933 - / 3.300 - / 43.066													
1.1.6) T56 P3, C2, E2, C130 - NonOrganic (4) - / 62.809 - / 1.155 - / 1.899 - / 2.599 - / - - / 2.599 - / 2.610 - / 1.753 - / 1.753 - / 1.753 - / 1.250 - / 77.581													
1.1.7) T64 H53 - NonOrganic - / 45.977 - / 1.059 - / 1.059 - / 1.059 - / - - / 1.059 - / 1.075 - / 1.075 - / 1.089 - / 1.110 - / 1.500 - / 55.003													
1.1.8) T700 H60, AH-1 - NonOrganic - / 48.768 - / 1.500 - / 1.528 - / 1.558 - / - - / 1.558 - / 1.575 - / 1.575 - / 1.615 - / 1.647 - / 1.000 - / 60.766													
1.1.9) T406 (V-22) - NonOrganic (5) - / - - / 0.964 - / 1.097 - / 1.963 - / - - / 1.963 - / 1.963 - / 1.963 - / 1.984 - / 2.214 - / 2.500 - / 14.648													
1.1.10) T408 (CH-53K) - NonOrganic (6) - / - - / - - / - - / - - - / - - - / - - - / 1.484 - / 1.525 - / 1.555 - / 1.750 - / 6.314													
1.1.11) Completed ECPs from prior years - NonOrganic - / 244.829 - / - - / - - / - - - / - - - / - - - / - - - / - - - / - - - / 244.829													
Subtotal: Recurring - / 483.235 - / 11.566 - / 13.439 - / 15.218 - / - - / 15.218 - / 14.701 - / 15.021 - / 15.197 - / 15.545 - / 16.810 - / 600.732													
Subtotal: Power Plant Changes - / 483.235 - / 11.566 - / 13.439 - / 15.218 - / - - - / 15.218 - / 14.701 - / 15.021 - / 15.197 - / 15.545 - / 16.810 - / 600.732													
Subtotal: Procurement, All Modification Items - / 483.235 - / 11.566 - / 13.439 - / 15.218 - / - - - / 15.218 - / 14.701 - / 15.021 - / 15.197 - / 15.545 - / 16.810 - / 600.732													
Support (All Modification Items)													
2.1) Data - / 1.108 - / 0.054 - / 0.055 - / 0.056 - / - - / 0.056 - / 0.057 - / 0.057 - / 0.057 - / 0.058 - / - - / 1.502													
2.2) Support equipment - / 1.206 - / 0.054 - / 0.055 - / 0.056 - / - - / 0.056 - / 0.057 - / 0.057 - / 0.057 - / 0.058 - / - - / 1.600													
2.3) ILS - / 12.950 - / 1.797 - / 1.831 - / 1.832 - / - - / 1.832 - / 1.832 - / 1.832 - / 1.832 - / 1.840 - / - - / 25.746													
2.4) Support Costs Other - / 65.577 - / 2.500 - / 2.547 - / 2.454 - / - - / 2.454 - / 2.499 - / 2.499 - / 2.550 - / 2.600 - / - - / 83.226													
Subtotal: Support - / 80.841 - / 4.405 - / 4.488 - / 4.398 - / - - / 4.398 - / 4.445 - / 4.445 - / 4.496 - / 4.556 - / 0.000 - / 112.074													
Installation													
Modification Item 1 of 1: Power Plant Changes - / 49.159 - / 1.900 - / 1.900 - / 1.905 - / 0.000 - / 1.905 - / 1.940 - / 1.940 - / 1.975 - / 2.001 - / 0.000 - / 62.720													
Subtotal: Installation - / 49.159 - / 1.900 - / 1.900 - / 1.905 - / - - / 1.905 - / 1.940 - / 1.940 - / 1.975 - / 2.001 - / 0.000 - / 62.720													
Total													
Total Cost (Procurement + Support + Installation) 613.235 17.871 19.827 21.521 0.000 21.521 21.086 21.406 21.668 22.102 16.810 775.526													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0570 / Power Plant Changes										Modification Number / Title: 1 / Power Plant Changes											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Power Plant Changes																															
Manufacturer Information																															
Manufacturer Name: Various PPC ⁽⁷⁾															Manufacturer Location: Various																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: See Notes:: Installation Name: Power Plant Installations																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		0 / 49.159		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		- / 49.159					
FY 2017		- / -		0 / 1.900		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		- / 1.900					
FY 2018		- / -		- / -		0 / 1.900		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		- / 1.900					
FY 2019		- / -		- / -		- / -		0 / 1.905		0 / 0.000		0 / 1.905		- / -		- / -		- / -		- / -		- / -		0 / 0.000		- / 1.905					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		0 / 1.940		- / -		- / -		- / -		- / -		0 / 0.000		- / 1.940					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 1.940		- / -		- / -		- / -		0 / 0.000		- / 1.940					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 1.975		- / -		- / -		0 / 0.000		- / 1.975					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 2.001		0 / 0.000		- / 2.001					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		0 / 49.159		0 / 1.900		0 / 1.900		0 / 1.905		0 / 0.000		0 / 1.905		0 / 1.940		0 / 1.940		0 / 1.975		0 / 2.001		0 / 0.000		- / 62.720							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Footnotes: ⁽¹⁾ Unit cost growth in FY18/FY19 is due to expensive Bearing Housing and Oil Drains tank redesign kits for ECP 3926. ⁽²⁾ F404 decrease between FY19/FY20 due to expected quantity decrease of After Burner Flame Holder kits. ⁽³⁾ Unit cost growth in FY17/FY18/FY19/FY20/FY23 due to kit and quantity increase for C29 Pilot Spray Bar upgrades.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0570 / Power Plant Changes	Modification Number / Title: 1 / Power Plant Changes
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
⁽⁴⁾ Unit Cost growth in FY17/FY18/FY19 due to additional kit requirements and expensive attachment kits for NP2000 Propeller Feather System Upgrade. Decrease from FY20/FY21 due to expected quantity decrease of NP2000 Propeller Feather System kits. ⁽⁵⁾ Because of an emergent requirement with Nacelle Blower Improvements Ceramic Bearing upgrade for the MV-22 and CV-22, retrofit kits were required to start in FY17 instead of FY19 to extend service life. Increase between FY18/FY19 is due to quantity increase for the Nacelle Blower Improvements Ceramic Bearing upgrade kits. ⁽⁶⁾ The CH-53K will be IOC beginning in 2020. RDTE CIP investments will begin in 2018 we expect that design changes will result in the requirement for retrofit kits around 2021. Based on this, CH-53K has been added to the requirements list and future requirements are reflected in the FYDP. ⁽⁷⁾ Admin and Production Leadtimes are averages with various contract and delivery dates		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 560												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	43.656	10.732	27.007	27.644	0.000	27.644	22.181	30.018	30.787	31.407	40.440	263.872
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	43.656	10.732	27.007	27.644	0.000	27.644	22.181	30.018	30.787	31.407	40.440	263.872
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	43.656	10.732	27.007	27.644	0.000	27.644	22.181	30.018	30.787	31.407	40.440	263.872
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modifications to the Joint Primary Aircraft Training System (JPATS). JPATS is a joint, United States Air Force led, acquisition program. Principal JPATS mission is primary training for entry-level student pilots, associated instructor pilots, and primary/intermediate training for United States Navy Naval Flight Officers. JPATS includes the T-6 Texan II, which is a stepped tandem seat, commercially derived aircraft powered by a single turboprop engine. The overall goal of modifications budgeted is to correct discrepancies and deficiencies discovered after the delivery of the aircraft and to commence upgrades to avionic systems for FAA compliance. Efforts include modifications to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Source (DMSMS) requirements. Modifications, particularly to avionics systems, may also be driven by new Cyber Security requirements. Current (FY 2017) Navy T-6 inventory is 294 aircraft (43 T-6A and 251 T-6B aircraft) with aircraft service life thru 2035. The United States Navy received delivery of final production Aircraft in 2016. Navy JPATS inventory includes 34 Ground Based Trainer System (GBTS) units (7 T-6A and 27 T-6B representative systems).												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 560										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04) (PS Safety)				- / 38.873	- / 8.102	- / 12.418	- / 13.723	- / 0.000	- / 13.723
P-3a	2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 4.783	- / 2.630	- / 14.589	- / 13.921	- / 0.000	- / 13.921
P-40	Total Gross/Weapon System Cost				- / 43.656	- / 10.732	- / 27.007	- / 27.644	- / 0.000	- / 27.644
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04) (PS Safety)				- / 19.481	- / 30.018	- / 30.787	- / 31.407	- / 40.440	- / 225.249
P-3a	2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 2.700	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 38.623
P-40	Total Gross/Weapon System Cost				- / 22.181	- / 30.018	- / 30.787	- / 31.407	- / 40.440	- / 263.872
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The FY 2019 funding request was increased as compared to PB18 submission to account for additional modifications driven by changes within Correction of Deficiencies Operational Safety Improvement Program (OSIP 011-04) as well as updated costs within Avionics Upgrades Federal Aviation Administration (FAA) compliance (OSIP 007-16). As part of this effort to improve execution alignment, the United States Navy commencing in FY 2016 has assumed full spectrum acquisition efforts for certain modifications that will be specific to T-6B aircraft and corresponding cost and schedule updates have been incorporated into this submission. Funding in FY 2019 is required for the correction of deficiencies, procurement of avionics upgrade kits required for compliance with Federal Aviation Administration regulations, and to provide support for Joint Primary Aircraft Training System retrofits. FY 2019 deficiency correction efforts include, Canopy Fracturing Initiation System - Ballistic (CFIS-B) retrofit, Auto Ignition Relay retrofit, ejection seat Safe Arm Handle, Flight Management System, and Onboard Oxygen Generator System modifications, non-recurring engineering, installation and associated support efforts. These efforts are required to maintain T-6 fleet aircraft safety, reliability and performance of T-6 aircraft for the training of entry-level student pilots, associated instructor pilots and primary/intermediate training for Naval Flight Officers.										

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)					Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	38.873	8.102	12.418	13.723	0.000	13.723	19.481	30.018	30.787	31.407	40.440	225.249
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	38.873	8.102	12.418	13.723	0.000	13.723	19.481	30.018	30.787	31.407	40.440	225.249
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	38.873	8.102	12.418	13.723	0.000	13.723	19.481	30.018	30.787	31.407	40.440	225.249
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety Improvement Program (OSIP) funds correction of deficiencies discovered during test and evaluation or operational use to the entire airframe, its components and subassemblies, avionics, related Peculiar Support Equipment, and Ground Based Training Systems. This OSIP includes modifications to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Source (DMSMS) requirements. Modifications, particularly to avionic systems, may also be driven by new Cyber Security requirements. Correction of Deficiencies Engineering Change Proposals (ECPs) include: Airframe Structural/Sub-systems; Rudder Pedal instrumented; Auto Ignition Relay; Flight Management System; Avionics Obsolescence; Onboard Oxygen Generating System; Avionics Hardware/Software Modifications; Safety System Compliance; Landing Gear Control Handle redesign; System Safety Avionics; Controlled Flight Into Terrain Prevention and Crash Survivable Cockpit Voice Recorder; and Safe Arm Handle. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Received final production aircraft delivery in FY 2016. Continue incorporation of Engineering Change Proposals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)				Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-6 A/B T-6 A/B				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)													
A Kits													
Recurring													
1.1.1) Canopy Fracturing Initiation System (CFIS) - Ballistic - Organic	109 / 0.040	71 / 0.034	115 / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	295 / 0.124	
1.1.2) Archived ECPs - Organic	- / 16.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.255	
Subtotal: Recurring	- / 16.295	- / 0.034	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 16.379	
Non-Recurring													
1.2.1) Non-recurring Engineering - Organic	- / 1.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.269	
Subtotal: Non-Recurring	- / 1.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.269	
B Kits													
Recurring													
2.1.1) Airframe Structural/Sub-systems - Organic	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.316	237 / 3.792	24 / 0.395	13 / 0.218	- / -	294 / 4.721	
2.1.3) Auto Ignition Relay - Organic	- / -	- / -	144 / 0.200	150 / 0.142	- / -	150 / 0.142	- / -	- / -	- / -	- / -	- / -	294 / 0.342	
2.1.4) Flight Management System (T-6B Acft) - Organic (1)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 7.273	59 / 4.042	131 / 4.096	- / -	294 / 15.411	
2.1.5) Flight Management System (T-6B GBTS) - Organic (2)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.030	- / -	- / -	- / -	34 / 0.030	
2.1.6) Avionics Obsolescence - Organic (3)	10 / 0.037	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 5.893	47 / 3.576	158 / 12.258	294 / 21.764	
2.1.7) Onboard Oxygen Generating System - Concentrator - Organic (4)	- / -	- / -	20 / 1.172	51 / 1.503	- / -	51 / 1.503	223 / 6.328	- / -	- / -	- / -	- / -	294 / 9.003	
2.1.8) Avionics Hardware/Software Modifications (B) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	251 / 3.571	251 / 3.571	
2.1.9) Avionics Hardware/Software Modifications (A) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.914	19 / 7.528	43 / 12.442	
2.1.10) Safety System Compliance Retrofit - NonOrganic (5)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / 7.009	93 / 7.760	90 / 7.708	47 / 4.253	294 / 26.730	
2.1.11) System Safety Compliance GBTS - NonOrganic (6)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.025	18 / 0.029	- / -	- / -	34 / 0.054	
2.1.12) Safe Arm Handle - NonOrganic (7)	- / -	- / -	136 / 1.129	131 / 1.109	- / -	131 / 1.109	27 / 0.213	- / -	- / -	- / -	- / -	294 / 2.451	
2.1.13) Safe Arm Handle - GBTS - NonOrganic	- / -	- / -	21 / 0.071	19 / 0.065	- / -	19 / 0.065	- / -	- / -	- / -	- / -	- / -	40 / 0.136	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)					Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: T-6 A/B T-6 A/B				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
2.1.14) Archived ECPs - Organic	- / 7.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.567	
<i>Subtotal: Recurring</i>	- / 7.604	- / -	- / 2.572	- / 2.819	- / -	- / 2.819	- / 6.857	- / 18.129	- / 18.119	- / 20.512	- / 27.610	- / 104.222	
Non-Recurring													
2.2.1) Non-recurring Engineering - Organic ⁽⁸⁾	- / 8.662	- / 4.313	- / 6.177	- / 2.806	- / -	- / 2.806	- / 3.531	- / 4.875	- / 4.175	- / 3.842	- / -	- / 38.381	
<i>Subtotal: Non-Recurring</i>	- / 8.662	- / 4.313	- / 6.177	- / 2.806	- / -	- / 2.806	- / 3.531	- / 4.875	- / 4.175	- / 3.842	- / 0.000	- / 38.381	
<i>Subtotal: P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)</i>	119 / 33.830	71 / 4.347	436 / 8.799	351 / 5.625	- / -	351 / 5.625	270 / 10.388	455 / 23.004	273 / 22.294	305 / 24.354	475 / 27.610	2,755 / 160.251	
<i>Subtotal: Procurement, All Modification Items</i>	- / 33.830	- / 4.347	- / 8.799	- / 5.625	- / -	- / 5.625	- / 10.388	- / 23.004	- / 22.294	- / 24.354	- / 27.610	- / 160.251	
Support (All Modification Items)													
3.1) DATA - Publications	- / 0.125	- / 0.097	- / 0.103	- / 0.105	- / -	- / 0.105	- / 0.107	- / 0.109	- / -	- / -	- / -	- / 0.646	
3.2) ILS	- / 0.261	- / 0.500	- / 0.115	- / 0.264	- / -	- / 0.264	- / 0.269	- / 0.274	- / 0.280	- / 0.286	- / 0.540	- / 2.789	
3.3) Other Support ⁽⁹⁾	- / 2.495	- / 3.095	- / 3.337	- / 3.150	- / -	- / 3.150	- / 3.504	- / 4.760	- / 4.903	- / 5.000	- / 11.457	- / 41.701	
3.4) Training Equipment ⁽¹⁰⁾	58 / 0.221	- / 0.063	- / 0.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	58 / 0.348	
3.5) Support Equipment	- / 0.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.047	
3.7) DAWDF Realignment	- / 1.894	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.894	
<i>Subtotal: Support</i>	- / 5.043	- / 3.755	- / 3.619	- / 3.519	- / -	- / 3.519	- / 3.880	- / 5.143	- / 5.183	- / 5.286	- / 11.997	- / 47.425	
Installation													
<i>Modification Item 1 of 1: P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)</i>	- / 0.000	- / 0.000	- / 0.000	- / 4.579	- / 0.000	- / 4.579	- / 5.213	- / 1.871	- / 3.310	- / 1.767	- / 0.833	- / 17.573	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 4.579	- / -	- / 4.579	- / 5.213	- / 1.871	- / 3.310	- / 1.767	- / 0.833	- / 17.573	
Total													
Total Cost (Procurement + Support + Installation)	38.873	8.102	12.418	13.723	0.000	13.723	19.481	30.018	30.787	31.407	40.440	225.249	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)				Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Modification Item 1 of 1: P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)													
Manufacturer Information													
Manufacturer Name: TBD							Manufacturer Location: TBD						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates		Oct 2017	Oct 2018										
Delivery Dates		Oct 2018	Oct 2019										
Manufacturer Name: Beechcraft Defense Corp - Safe Arm Handle ⁽¹¹⁾							Manufacturer Location: Wichita, Kansas						
Administrative Leadtime (in Months): 6							Production Leadtime (in Months): 12						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	Mar 2018	Mar 2019	Mar 2020	Mar 2021									
Delivery Dates	Mar 2019	Mar 2020	Mar 2021	Mar 2022									
Manufacturer Name: Beechcraft Defense Corp - Safety Systems Compliance ⁽¹²⁾							Manufacturer Location: Wichita, Kansas						
Administrative Leadtime (in Months): 2							Production Leadtime (in Months): 3						
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates					Nov 2020	Nov 2021	Nov 2022						
Delivery Dates					Feb 2021	Feb 2022	Feb 2023						
Installation Information													
Method of Implementation: Contractor Field Mod:: Installation Name: Safety System Compliance													
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.826	20 / 1.328	- / -	0 / 0.000	80 / 2.154	
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 1.982	- / -	0 / 0.000	105 / 1.982	
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	93 / 1.767	0 / 0.000	93 / 1.767	
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 0.833	49 / 0.833	

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Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)										Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)																															
Installation Information																															
Method of Implementation: Contractor Field Mod:: Installation Name: Safety System Compliance																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		60 / 0.826		125 / 3.310		93 / 1.767		49 / 0.833		327 / 6.736							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	21	21	20	35	35	35	-	31	31	31	49	327	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	21	21	20	35	35	35	-	31	31	31	49	327	
Method of Implementation: Contractor Field Modification:: Installation Name: Safe Arm Handle																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		136 / 4.316		0 / 0.000		136 / 4.316		- / -		- / -		- / -		- / -		0 / 0.000		136 / 4.316							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		131 / 4.971		- / -		- / -		- / -		0 / 0.000		131 / 4.971							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		27 / 1.045		- / -		- / -		0 / 0.000		27 / 1.045							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		- / -		- / -		136 / 4.316		0 / 0.000		136 / 4.316		131 / 4.971		27 / 1.045		- / -		- / -		0 / 0.000		294 / 10.332							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	45	45	46	-	43	44	44	-	7	7	13	-	-	-	-	-	-	-	-	-	294
Out	-	-	-	-	-	-	-	-	-	-	45	45	46	-	43	44	44	-	7	7	13	-	-	-	-	-	-	-	-	-	294

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)

Installation Information

Method of Implementation: Contractor Logistics Support:: Installation Name: Safe Arm Handle - GBTS

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	21 / 0.263	0 / 0.000	21 / 0.263	- / -	- / -	- / -	- / -	0 / 0.000	21 / 0.263
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.242	- / -	- / -	- / -	0 / 0.000	19 / 0.242
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	21 / 0.263	0 / 0.000	21 / 0.263	19 / 0.242	- / -	- / -	- / -	0 / 0.000	40 / 0.505

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	5	5	5	6	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	40
Out	-	-	-	-	-	-	-	-	-	5	5	5	6	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	40

Method of Implementation (Organic): Canopy Fracturing Initiation System (CFIS) - Ballistic	Installation Quantity: 295
Method of Implementation (Organic): Airframe Structural/Sub-systems	Installation Quantity: 294
Method of Implementation (Organic): Auto Ignition Relay	Installation Quantity: 294
Method of Implementation (Organic): Flight Management System (T-6B Acft)	Installation Quantity: 294
Method of Implementation (Organic): Flight Management System (T-6B GBTS)	Installation Quantity: 34

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)		
Installation Information		
Method of Implementation (Organic): Avionics Obsolescence		Installation Quantity: 294
Method of Implementation (Organic): Onboard Oxygen Generating System - Concentrator		Installation Quantity: 294
Method of Implementation (Organic): Avionics Hardware/Software Modifications (B)		Installation Quantity: 251
Method of Implementation (Organic): Avionics Hardware/Software Modifications (A)		Installation Quantity: 43
Footnotes: (1) 2.1.4) Flight Management System retrofit kit: ECP affects T-6B Aircraft only. Increase in kit cost due to the inclusion of Audio Management Unit (AMU) and Audio Control Panel (ACP) hardware into the overall unit cost of the kit. (2) 2.1.5) Flight Management System (T-6B GBTS): Previous submission combined the costs of kits for retrofit and for Ground Based Training System (GBTS) in a single line. Because these kits have different unit costs, separate cost elements have been created to illustrate them. (3) 2.1.6) Avionics Obsolescence: Shifted from FY 2019 to FY 2022 to improve alignment with Joint program schedules. Funding request was adjusted thru Future Years Defense Program (FYDP). Modifications to the avionics will be required to upgrade the electronic flight instrument displays, Altitude and Heading Reference (AHRS) controller, Midair Collision Avoidance, Military Flight Operations Quality Assurance (MFOQA) and backup flight instruments and those avionic components associated with the affected aircraft systems to include associated software updates. (4) 2.1.7) Onboard Oxygen Generating System: Quantities within fiscal years have been adjusted to improve alignment with Joint program schedules. (5) 2.1.10) Safety System Compliance Retrofit: Shifted from FY 2019 to FY 2021 to improve alignment with Joint program schedules. Funding request was adjusted through Future Years Defense Program (FYDP). (6) 2.1.11) System Safety Compliance GBTS: Previous submission combined the costs of kits for retrofit and for Ground Based Training System (GBTS) in a single line. Because these kits have different unit costs, separate cost elements have now been created to illustrate them. (7) 2.1.13 and 2.1.14) Textron (formerly Beechcraft) will be purchasing the kits. Delivery takes 4 months and then DynCorp International will be installing the kits. (8) 2.2.1) Non-recurring Engineering (NRE): FY 2019 NRE was decreased compared to PB18 submission. (9) 3.3) Other Support: Increases are a result of Navy assuming full spectrum of acquisition efforts for modifications that are specific to T-6B aircraft. Navy specific efforts include Flight Management System and Safe Arm Handle. Support also includes contracting support to be provided on reimbursable basis by Naval Air Warfare Center Training Systems Division. (10) 3.4) Training Equipment: Safe Arm Handle GBTS - Fiscal change from Safe Arm Handle GBTS Kits to GBTS to address simulator kits. (11) Installation Cost: Safe Arm Handle installation cost growth associated with increase in effort required for the safe arm handle modification. Due to schedule the first install of Safe Arm Handle will be 2nd quarter of FY19. (12) Installation - Safety System Compliance installation schedule, grouped, to include both Retrofit and GBTS kits.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)					Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.783	2.630	14.589	13.921	0.000	13.921	2.700	0.000	0.000	0.000	0.000	38.623
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.783	2.630	14.589	13.921	0.000	13.921	2.700	0.000	0.000	0.000	0.000	38.623
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.783	2.630	14.589	13.921	0.000	13.921	2.700	0.000	0.000	0.000	0.000	38.623
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational Safety Improvement Program (OSIP) funds upgrades to avionic systems necessary for compliance with Federal Aviation Administration 28 May 2010 release DoT/FAA, 14 CFR Part 91: Automated Dependent Surveillance Broadcast (ADS-B) Out performance requirements to support Air Traffic Control (ATC) service final rule. This mandate stipulates that all aircraft required to have unrestricted access to operate in Classes A, B, and C airspace, certain Class E airspace, and other specified airspace requiring ADS-B Out, must be in compliance with this regulation by January 1, 2020. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: System development efforts for this update commenced in FY 2015, with hardware development costs reflected in R-1 Line #90. Non-recurring engineering and support efforts to for Engineering Change Proposal development and implementation commenced in FY 2016.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)						Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: T-6 A/B				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities				Related RDT&E PEs: 0603208N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)													
B Kits													
Recurring													
1.1.1) Aircraft Retrofit kits (T-6A) - NonOrganic ⁽¹³⁾	- / -	- / -	6 / 0.289	37 / 1.337	- / -	37 / 1.337	- / -	- / -	- / -	- / -	- / -	43 / 1.626	
1.1.2) GBTS Kits (T-6A) - NonOrganic ⁽¹⁴⁾	- / -	- / -	7 / 0.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.073	
1.1.3) Aircraft Retrofit Kits (T-6B) - NonOrganic ⁽¹⁵⁾	20 / 2.413	- / -	108 / 7.305	104 / 7.000	- / -	104 / 7.000	17 / 1.670	- / -	- / -	- / -	- / -	249 / 18.388	
1.1.4) GBTS Kits (T-6B) - NonOrganic	- / -	13 / 0.431	14 / 0.364	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.795	
Subtotal: Recurring	- / 2.413	- / 0.431	- / 0.031	- / 8.337	- / -	- / 8.337	- / 1.670	- / -	- / -	- / -	- / 0.000	- / 20.882	
Non-Recurring													
1.2.1) Non-Recurring Engineering - Organic	- / 1.795	- / -	- / 0.766	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.561	
Subtotal: Non-Recurring	- / 1.795	- / -	- / 0.766	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.561	
Subtotal: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)	20 / 4.208	13 / 0.431	135 / 8.797	141 / 8.337	- / -	141 / 8.337	17 / 1.670	- / -	- / -	- / -	- / -	326 / 23.443	
Subtotal: Procurement, All Modification Items	- / 4.208	- / 0.431	- / 8.797	- / 8.337	- / -	- / 8.337	- / 1.670	- / -	- / -	- / -	- / 0.000	- / 23.443	
Support (All Modification Items)													
2.2) DATA - Publications	- / -	- / -	- / 0.043	- / 0.058	- / -	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / 0.101	
2.3) Support Equipment	- / -	- / -	- / 0.021	- / 0.032	- / -	- / 0.032	- / -	- / -	- / -	- / -	- / -	- / 0.053	
2.5) ILS	- / -	- / 0.137	- / 0.125	- / 0.112	- / -	- / 0.112	- / 0.098	- / -	- / -	- / -	- / -	- / 0.472	
2.6) Other Support ⁽¹⁶⁾	- / 0.575	- / 1.862	- / 2.500	- / 2.448	- / -	- / 2.448	- / 0.722	- / -	- / -	- / -	- / -	- / 8.107	
Subtotal: Support	- / 0.575	- / 1.999	- / 2.689	- / 2.650	- / -	- / 2.650	- / 0.820	- / -	- / -	- / -	- / 0.000	- / 8.733	
Installation													
Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)	- / 0.000	- / 0.200	- / 3.103	- / 2.934	- / 0.000	- / 2.934	- / 0.210	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 6.447	
Subtotal: Installation	- / 0.000	- / 0.200	- / 3.103	- / 2.934	- / -	- / 2.934	- / 0.210	- / -	- / -	- / -	- / 0.000	- / 6.447	
Total													
Total Cost (Procurement + Support + Installation)	4.783	2.630	14.589	13.921	0.000	13.921	2.700	0.000	0.000	0.000	0.000	38.623	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)					Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)												
Manufacturer Information												
Manufacturer Name: Dyncorp International ADS-B Out ⁽¹⁷⁾							Manufacturer Location: Corpus Christi, TX - ADS-B Out					
Administrative Leadtime <i>(in Months)</i> : 12							Production Leadtime <i>(in Months)</i> : 4					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Sep 2017	Sep 2017										
Delivery Dates	Dec 2017	Jan 2018										
Manufacturer Name: Beechcraft Defense Corp - Aircraft Retrofit Kits & GBTS - T-6A ⁽¹⁸⁾							Manufacturer Location: Wichita, Kansas					
Administrative Leadtime <i>(in Months)</i> : 11							Production Leadtime <i>(in Months)</i> : 5					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates		Aug 2018	Jan 2019									
Delivery Dates		Jan 2019	Jun 2019									
Installation Information												
Method of Implementation: Contractor Field Mods:: Installation Name: Install Aircraft Retrofit Kits & GBTS - T-6A												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	13 / 0.438	0 / 0.000	13 / 0.438	- / -	- / -	- / -	- / -	0 / 0.000	13 / 0.438
FY 2019	- / -	- / -	- / -	37 / 1.000	0 / 0.000	37 / 1.000	- / -	- / -	- / -	- / -	0 / 0.000	37 / 1.000
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	50 / 1.438	0 / 0.000	50 / 1.438	- / -	- / -	- / -	- / -	0 / 0.000	50 / 1.438

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)

Installation Information

Method of Implementation: Contractor Field Mods:: Installation Name: Install Aircraft Retrofit Kits & GBTS - T-6A

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	9	22	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
Out	-	-	-	-	-	-	-	-	-	-	9	22	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50

Method of Implementation: Contractor Field Mods:: Installation Name: Install Aircraft Retrofit Kits & GBTS - T-6B

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	20 / 0.572	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 0.572
FY 2017	- / -	13 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	13 / 0.200
FY 2018	- / -	- / -	95 / 2.531	27 / 0.616	0 / 0.000	27 / 0.616	- / -	- / -	- / -	- / -	0 / 0.000	122 / 3.147
FY 2019	- / -	- / -	- / -	78 / 0.880	0 / 0.000	78 / 0.880	26 / 0.060	- / -	- / -	- / -	0 / 0.000	104 / 0.940
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.150	- / -	- / -	- / -	0 / 0.000	17 / 0.150
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	13 / 0.200	115 / 3.103	105 / 1.496	0 / 0.000	105 / 1.496	43 / 0.210	- / -	- / -	- / -	0 / 0.000	276 / 5.009

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	13	5	46	32	32	27	26	26	26	26	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	276
Out	-	-	-	-	13	5	46	32	32	27	26	26	26	26	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	276

Footnotes:

⁽¹³⁾ FY18 has been updated due to fact of life updates from our Joint Program office.

⁽¹⁴⁾ 1.1.2) GBTS Kits (T-6A): Due to different unit costs for the aircraft retrofit and Ground Based Training System (GBTS) kits, a separate GBTS kit line was added to the P3A to price out costs individually. FY18 has been updated due to fact of life updates from our Joint Program office.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(15) 1.1.3) Aircraft Retrofit Kits (T-6B): A total quantity of 249 retrofit kits are expected to be procured under this Operational Safety Improvement Program. Quantity of 2 test articles installed under development efforts are expected to remain on aircraft for a total of 251 T-6B aircraft. Fact of Life changes based on proposal received, FY20 price increase is due to large quantity decrease. (16) 2.6) Other Support: Automated Dependent Surveillance Broadcast Out modifications that are specific to T-6B aircraft. Support includes, contracting support to be provided on reimbursable basis by Naval Air Warfare Center Training Systems Division. Navy is also providing support to Joint program acquisition efforts for T-6A aircraft. (17) Installation T-6B: T-6B Installation schedule, grouped, to include both T-6B Retrofit and GBTS kits. Kits are being bought by Textron (formerly Beechcraft) but Dyncorp International will install kits. (18) Installation T-6A: T-6A Installation schedule, grouped, to include both T-6A Retrofit and GBTS kits. FY19 Contract option will be award early to keep kit delivery and install on schedule.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy	Date: February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ <i>in Millions</i>)	20.368	0.000	0.000	15.864	0.000	15.864	38.346	38.491	4.773	5.871	48.221	171.934
Less PY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ <i>in Millions</i>)	20.368	0.000	0.000	15.864	0.000	15.864	38.346	38.491	4.773	5.871	48.221	171.934
Plus CY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ <i>in Millions</i>)	20.368	0.000	0.000	15.864	0.000	15.864	38.346	38.491	4.773	5.871	48.221	171.934
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ <i>in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ <i>in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Budget Line Item (BLI) 0575 Aviation Life Support Mods contains OSIP 003-19 for Physiological Episodes (PE) and this is a continuation of efforts previously funded in BLI 0525 F/A-18 Series and BLI 0569 T-45 Series.

This line item funds Aircraft Integration Modifications for the Enhanced Visual Acuity (EVA) program for all USN/USMC Rotary Wing and Tilt Rotor Aircraft and Aircrew Oxygen System related modifications for Physiological Episode (PE) program for fixed wing aircraft. This line item will also be utilized for future Aviation Life Support Modifications as required.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods			
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A									

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 003-19 Physiological Episodes (Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 15.864	- / 0.000	- / 15.864
P-3a	2 / 004-21 Enhanced Visual Acuity Mods (Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / Inactive OSIPs (TBD)				- / 20.368	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 20.368	- / 0.000	- / 0.000	- / 15.864	- / 0.000	- / 15.864

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 003-19 Physiological Episodes (Performance Enhancement)				- / 38.346	- / 38.038	- / 1.713	- / 2.750	- / 0.000	- / 96.711
P-3a	2 / 004-21 Enhanced Visual Acuity Mods (Performance Enhancement)				- / 0.000	- / 0.453	- / 3.060	- / 3.121	- / 48.221	- / 54.855
P-3a	3 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 20.368
P-40	Total Gross/Weapon System Cost				- / 38.346	- / 38.491	- / 4.773	- / 5.871	- / 48.221	- / 171.934

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 This budget request supports OSIP 003-19 starting in FY19 to support Physiological Episodes and OSIP 004-21 starting in FY21 to support Enhanced Visual Acuity (EVA) Aircraft Integration Modifications. The FY 2019 funding request was reduced by \$0.789M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods				Modification Number / Title: 1 / 003-19 Physiological Episodes			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	15.864	0.000	15.864	38.346	38.038	1.713	2.750	0.000	96.711
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	15.864	0.000	15.864	38.346	38.038	1.713	2.750	0.000	96.711
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	15.864	0.000	15.864	38.346	38.038	1.713	2.750	0.000	96.711
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION JUSTIFICATION: Oxygen System Upgrades incorporates Aircrew Oxygen System related modifications to all USN/USMC fixed wing aircraft. Oxygen systems include OBOGS (On-Board Oxygen Generation System), OBIGS (On-Board Inert Gas Generation System), regulators and Oxygen Storage Bottles.

Current modifications address the alarming increase in Physiological Episodes (hypoxia and decompression sickness events). This is the #1 Commander, Naval Air Force (CNAF) priority and CNATRA (Chief of Naval Air Training) Safety Issue. OBOGS (On-Board Oxygen Generation System) hardware improvements have been qualified to address aging system deficiencies and are being fielded.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods						Modification Number / Title: 1 / 003-19 Physiological Episodes			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: T-45, F/A-18 A, F/A-18 B, F/A-18 C, F/A-18 D, F/A-18 E/F, E/A-18 G				Modification Type: Performance Enhancement				Related RDT&E PEs: 0604264N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 003-19 Physiological Episodes													
B Kits													
Recurring													
2.1.1) NACES F/A-18 (B Kits) - Organic	- / -	- / -	- / -	322 / 14.390	- / -	322 / 14.390	608 / 27.714	570 / 26.501	- / -	- / -	- / -	1,500 / 68.605	
2.1.2) NACES T-45 (B Kits) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	188 / 8.742	206 / 9.771	- / -	- / -	- / -	394 / 18.513	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 14.390	- / -	- / 14.390	- / 36.456	- / 36.272	- / -	- / -	- / 0.000	- / 87.118	
<i>Subtotal: 003-19 Physiological Episodes</i>	- / -	- / -	- / -	322 / 14.390	- / -	322 / 14.390	796 / 36.456	776 / 36.272	- / -	- / -	- / -	1,894 / 87.118	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 14.390	- / -	- / 14.390	- / 36.456	- / 36.272	- / -	- / -	- / 0.000	- / 87.118	
Support (All Modification Items)													
3.5) ILS ⁽¹⁾	- / -	- / -	- / -	- / 1.118	- / -	- / 1.118	- / 1.398	- / 1.315	- / 1.285	- / 2.206	- / -	- / 7.322	
3.6) Other Support ⁽²⁾	- / -	- / -	- / -	- / 0.356	- / -	- / 0.356	- / 0.492	- / 0.451	- / 0.428	- / 0.544	- / -	- / 2.271	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 1.474	- / -	- / 1.474	- / 1.890	- / 1.766	- / 1.713	- / 2.750	- / 0.000	- / 9.593	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	15.864	0.000	15.864	38.346	38.038	1.713	2.750	0.000	96.711	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy				Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods			Modification Number / Title: 1 / 003-19 Physiological Episodes	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: 003-19 Physiological Episodes							
Manufacturer Information							
Manufacturer Name: TBD Physiological Episodes				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jan 2019	Jan 2020	Jan 2021		
Delivery Dates			Jun 2019	Jun 2020	Jun 2021		

Footnotes:

(1) Increase in FY19 to FY20 due to both T-45 and F-18 ramping up production. FY22 and FY23 support for follow-on production verification assessment of on-aircraft Physiological Monitoring systems.

(2) Increase in FY19 to FY20 due to both T-45 and F-18 ramping up production. FY22 and FY23 support for follow-on production verification assessment of on-aircraft Physiological Monitoring systems.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 2 / 004-21 Enhanced Visual Acuity Mods

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	3.060	3.121	48.221	54.855
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	3.060	3.121	48.221	54.855
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	3.060	3.121	48.221	54.855
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION JUSTIFICATION: Enhanced Visual Acuity (EVA) is a digital replacement for the AN/AVS-9 Aviator Night Vision goggles for all USN/USMC Rotary Wing and Tilt Rotor Aircraft. The system will provide increased resolution under reduced light levels and serve as the display for aircraft Heads Up Display (HUD) systems. APN-5 funding will be utilized for aircraft modifications required to provide electrical power and HUD symbology for the EVA system.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods				Modification Number / Title: 2 / 004-21 Enhanced Visual Acuity Mods					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: AH-1Z, CH-53E/K, MH-53E, MH-60R, MH-60S, MV-22B, UH-1Y				Modification Type: Performance Enhancement				Related RDT&E PEs: 0604264N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 004-21 Enhanced Visual Acuity Mods													
A Kits													
Recurring													
1.1.1) MH-60S Install (A-Kits) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	220 / 4.198	220 / 4.198	
1.1.2) AH-1Z Install (A-Kits) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.237	3 / 0.242	183 / 3.456	
1.1.3) CH-53E/K Install (A-Kits) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 1.648	200 / 1.648	
1.1.4) MH-53E Install (A-Kits) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.501	27 / 0.501	
1.1.5) MH-60R Install (A-Kits) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 4.357	235 / 4.357	
1.1.6) MV-22B Install (A-Kits) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	380 / 3.131	380 / 3.131	
1.1.7) UH-1Y Install (A-Kits) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.239	3 / 0.244	154 / 2.854	
Subtotal: Recurring		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.476	- / 0.486	- / 20.145	
B Kits													
Non-Recurring													
2.2.1) Integration NRE - Organic		- / -	- / -	- / -	- / -	- / -	- / -	- / 0.069	- / 2.042	- / 1.915	- / 20.465	- / 24.491	
Subtotal: Non-Recurring		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.069	- / 2.042	- / 1.915	- / 20.465	- / 24.491	
Subtotal: 004-21 Enhanced Visual Acuity Mods		- / -	- / -	- / -	- / -	- / -	- / -	- / 0.069	6 / 2.518	6 / 2.401	1,399 / 40.610	1,411 / 45.598	
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.069	- / 2.518	- / 2.401	- / 40.610	- / 45.598	
Installation													
Modification Item 1 of 1: 004-21 Enhanced Visual Acuity Mods		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.118	- / 0.240	- / 5.242	- / 5.600	
Subtotal: Installation		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.118	- / 0.240	- / 5.242	- / 5.600	
Total													
Total Cost (Procurement + Support + Installation)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.453	3.060	3.121	54.855	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods										Modification Number / Title: 2 / 004-21 Enhanced Visual Acuity Mods											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: 004-21 Enhanced Visual Acuity Mods																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: TBD																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 6																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																						Jan 2022				Jan 2023					
Delivery Dates																						Jun 2022				Jun 2023					
Installation Information																															
Method of Implementation: Contractor Field Team:: Installation Name: Enhanced Visual Acuity																															
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2017		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2018		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 0.118		3 / 0.120		0 / 0.000		6 / 0.238						
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 0.120		3 / 0.120		6 / 0.240						
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1,399 / 5.122		1,399 / 5.122						
Total		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 0.118		6 / 0.240		1,402 / 5.242		1,411 / 5.600						
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	1	1	2	1,402	1,411
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	1	1	1,404	1,411

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods						Modification Number / Title: 3 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	20.368	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.368
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	20.368	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.368
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	20.368	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.368
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods					Modification Number / Title: 3 / Inactive OSIPs				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: [No Model Specified]				Modification Type: TBD					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Inactive OSIPs													
B Kits													
Non-Recurring													
1.1.1) Inactive OSIPs - Organic													
- / 20.368 - / - - / - - / - - / - / - - / - - / - / - - / - - / - / 20.368													
Subtotal: Non-Recurring													
- / 20.368 - / - - / - - / - / - - / - - / - / - - / - / - - / 0.000 - / 20.368													
Subtotal: Inactive OSIPs													
- / 20.368 - / - - / - - / - / - - / - / - - / - / - - / - / - - / 20.368													
Subtotal: Procurement, All Modification Items													
- / 20.368 - / - - / - - / - / - - / - / - - / - / - - / - / - - / 20.368													
Installation													
Subtotal: Installation													
- / - - / - - / - / - - / - / - - / - / - - / - / - - / - / -													
Total													
Total Cost (Procurement + Support + Installation)													
20.368 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 20.368													

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 3 / Inactive OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0576 / Common ECM Equipment					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 000												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,176.541	236.822	222.172	166.306	9.820	176.126	142.228	150.509	153.482	156.576	926.341	4,340.797
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,176.541	236.822	222.172	166.306	9.820	176.126	142.228	150.509	153.482	156.576	926.341	4,340.797
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,176.541	236.822	222.172	166.306	9.820	176.126	142.228	150.509	153.482	156.576	926.341	4,340.797
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds Common Electronic Countermeasures (ECM) equipment for strike and assault aircraft. The overall goal of the modification budget is to provide a reprogrammable radar and missile warning system, provide attacking missile declaration, sector direction finding, laser detection, and self-protection capability devices to applicable user aircraft.

Operational Safety Improvements Program (OSIP) 014-90 AN/APR-39(V)2 Radar Warning Receiver (RWR): The AN/APR-39A/B/C/D (V) 2 Radar Signal Detecting Set is designed for United States Marine Corps (USMC), United States Navy (USN), United States Air Force (USAF), and United States Army (US Army) Assault Support aircraft to provide onboard situational awareness and warning of radar threats. NRE, integration, validation/ verification and procurement of the upgraded APR-39 system (APR-39D (V)2) will continue through FY 2031.

OSIP 006-00 ALE-39 to ALE-47 Retrofit: This OSIP provides funding for retrofit installation of AN/ALE-47 on F/A-18/C/D aircraft lots 12-17 and to procure new AN/ALE-47 Test Sets (ALM-290) to replace original version ALM-286s. The replacement of the AN/ALE-39 Dispenser system with the AN/ALE-47 will correct serious safety problems and greatly improve aircraft survivability.

OSIP 005-08 Direct Infrared Countermeasure (DIRCM) / Department of Navy Large Aircraft Infrared Countermeasure (DoN LAIRCM) AN/AAQ-24: This OSIP provides current available technology improvements for survivability to United States Marine Corps aircraft. This budget supports procurement, Engineering Change Proposals (ECPs), integration, validation, Follow-on Test and Evaluation (FOT&E) and fielding of DoN LAIRCM systems on CH-53E/K, KC-130J, P-8A and MV-22 platforms.

OSIP 004-12 Common On-Board Jammer: Integrated Defensive Electronic Counter Measure (IDECM) Block 4 is an ECP to the ALQ-214 intended to render it suitable for operation on the F/A-18C/D aircraft, while retaining all IDECM suite functionality when installed on F/A-18E/F aircraft. The Electronic Frequency Converter (EFC) enables dataflow via the fiber optic cable to the Fiber Optic Towed Decoy (FOTD) and is part of the IB-4 configuration when installed on the F/A-18E/F aircraft. This OSIP is for the onboard portion of the IB-4 configuration.

OSIP 017-12 Correction of Discrepancies: This OSIP will provide the required correction to multiple sub-components that are obsolete.

OSIP 004-15 Assault Correction of Discrepancies: Assault of Corrections of Discrepancies OSIP will affect changes to assault Electronic Countermeasure (ECM) equipment in the aircraft that have been delivered for fleet operations. These ECM systems require various upgrade initiatives to keep these aircraft mission capable with a robust defensive system that ensure aircraft survivability.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0576 / Common ECM Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
OSIP 018-17 Assault Direct Infrared Countermeasures (ADIRCM): This OSIP provides funding for the installation of Assault Direct Infrared Countermeasures on the United States Navy/United States Marine Corps chosen material solution for AH-1Z, UH-1Y, and MH-60S aircraft in response to Joint Urgent Operational Needs Statement (SO-0010).		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0576 / Common ECM Equipment				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 000										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/APR-39D(V)2 RWR (OSIP 014-90) (MISSION CAPABILITY)				- / 357.103	- / 19.763	- / 39.069	- / 38.299	- / 0.000	- / 38.299
P-3a	2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00) (MISSION CAPABILITY)				- / 185.970	- / 3.263	- / 3.056	- / 5.491	- / 0.000	- / 5.491
P-3a	3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08) (MISSION CAPABILITY)				- / 539.738	- / 130.434	- / 88.263	- / 74.708	- / 0.000	- / 74.708
P-3a	4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12) (MISSION CAPABILITY)				- / 353.518	- / 54.568	- / 49.976	- / 46.854	- / 0.000	- / 46.854
P-3a	5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12) (SAFETY/RELIABILITY)				- / 1.808	- / 0.442	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15) (SAFETY/RELIABILITY)				- / 1.450	- / 0.892	- / 0.838	- / 0.954	- / 0.000	- / 0.954
P-3a	7 / ASSAULT DIRCM (OSIP 018-17) (TBD)				- / 0.000	- / 27.460	- / 40.970	- / 0.000	- / 9.820	- / 9.820
P-3a	8 / INACTIVE OSIPs (TBD)				- / 736.954	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 2,176.541	- / 236.822	- / 222.172	- / 166.306	- / 9.820	- / 176.126
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/APR-39D(V)2 RWR (OSIP 014-90) (MISSION CAPABILITY)				- / 31.717	- / 34.176	- / 34.864	- / 35.555	- / 444.134	- / 1,034.680
P-3a	2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00) (MISSION CAPABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 5.333	- / 203.113
P-3a	3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08) (MISSION CAPABILITY)				- / 63.472	- / 68.330	- / 69.666	- / 71.110	- / 386.465	- / 1,492.186
P-3a	4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12) (MISSION CAPABILITY)				- / 47.039	- / 48.003	- / 48.952	- / 49.911	- / 90.409	- / 789.230
P-3a	5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12) (SAFETY/RELIABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2.250
P-3a	6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15) (SAFETY/RELIABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 4.134
P-3a	7 / ASSAULT DIRCM (OSIP 018-17) (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 78.250
P-3a	8 / INACTIVE OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 736.954
P-40	Total Gross/Weapon System Cost				- / 142.228	- / 150.509	- / 153.482	- / 156.576	- / 926.341	- / 4,340.797
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY19 Baseline funding is required for Common Electronic Countermeasures (ECM) equipment for strike and assault aircraft.										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0576 / Common ECM Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
OCO: FY19 OCO is required for the following: OSIP 018-17 Assault Direct Infrared Countermeasures (ADIRCM): FY 2019 OCO funds are required to procure assets in support of fielding the next Marine Expeditionary Unit (MEU). The FY 2019 OCO ensures that the capability to conduct missions in areas where the JUONS threat exists until the Program of Record (PoR) assets can be fielded.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 1 / AN/APR-39D(V)2 RWR (OSIP 014-90)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	357.103	19.763	39.069	38.299	0.000	38.299	31.717	34.176	34.864	35.555	444.134	1,034.680
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	357.103	19.763	39.069	38.299	0.000	38.299	31.717	34.176	34.864	35.555	444.134	1,034.680
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	357.103	19.763	39.069	38.299	0.000	38.299	31.717	34.176	34.864	35.555	444.134	1,034.680
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION / JUSTIFICATION: The AN/APR-39A/B/C/D(V)2 Radar Signal Detecting Set is designed for United States Marine Corps (USMC), United States Navy (USN), United States Air Force (USAF) and United States Army (US Army) Assault Support aircraft to provide onboard situational awareness and warning of radar threats by Statement of Operational Requirements Document (ORD) number 545-88-00 dated 14 February 2000. The AN/APR-39A/B/C/D(V)2 also provides control and display of the AAR-47 Missile Warning System and Chaff dispense commands to the ALE-47 Counter Measure Dispensing System. The AN/APR-39C/D(V)2 provides control and display of the AAQ-24 and AAR-59. The APR-39A/B/C/D(V)2 consists of five antennas, one Cockpit Control unit, a display, two, three, or four receivers (dependent on a/c configuration) and one processor. This OSIP supports the following: Class I Engineering Change Proposal (ECP), APR-39D(V)2, that corrects Part I deficiencies against the Radar Warning Receiver (RWR) noted in AH-1W, MV-22 and KC-130T Operational Evaluation (OpEval) reports; C(V)2 and D(V)2 software upgrade; and interface/integrations to include Integrated Aircraft Survivability Equipment. Updates required through the Future Year Defense Program (FYDP) for various platforms. The current RWR APR-39 A/B/C provides inaccurate direction of arrival information, time delayed detection and identification of threat emitters causing loss of situational awareness to combat aircrews. The APR-39D(V)2 system will be the RWR solution for all assault support aircraft MV-22, AH-1, H-60, UH-1, H-53 and C-130. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The APR-39 is in the production and sustainment phase (MSIII3Q/96). The Department of Navy is the lead service of this joint service program. Non-Recurring Engineering (NRE), integration, validation/ verification and procurement of the upgraded APR-39 system (APR-39D(V)2) will continue through FY 2031.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 1 / AN/APR-39D(V)2 RWR (OSIP 014-90)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1Z, MV-22, KC-130T, CH-53E/K, KC-130J, MH-53, HH-60H, MH-60S				Modification Type: MISSION CAPABILITY				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: AN/APR-39D(V)2 RWR (OSIP 014-90)												
B Kits												
Recurring												
1.1.1) Install Equip AN/APR-39A/C/D(V)2- MV-22 - Organic ⁽¹⁾		17 / 12.518	2 / 1.400	18 / 15.591	19 / 16.616	- / -	19 / 16.616	14 / 12.417	16 / 14.483	18 / 16.579	18 / 16.941	208 / 223.249 330 / 329.794
1.1.2) Install Equip AN/APR-39 D(V)2-H-1 - Organic ⁽²⁾		- / -	3 / 1.790	15 / 11.288	16 / 12.115	- / -	16 / 12.115	15 / 11.547	16 / 12.560	15 / 12.029	15 / 12.215	189 / 176.673 284 / 250.217
1.1.3) Install Equipment Conversion B Kits - Organic		- / -	12 / 0.866	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / - 12 / 0.866
1.1.4) Archived BKits Recurring - Organic - Organic		- / 159.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / - 159.624
Subtotal: Recurring		- / 172.142	- / 4.056	- / 26.879	- / 28.731	- / -	- / 28.731	- / 23.964	- / 27.043	- / 28.608	- / 29.156	- / 399.922 - / 740.501
Non-Recurring												
1.2.1) D(V)2 System Flight Test - Organic		- / 2.347	- / 3.106	- / 3.065	- / 0.802	- / -	- / 0.802	- / -	- / -	- / -	- / -	- / 0.379 - / 9.699
1.2.2) Archived BKits Non-Recurring - Organic		- / 16.945	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / - 16.945
Subtotal: Non-Recurring		- / 19.292	- / 3.106	- / 3.065	- / 0.802	- / -	- / 0.802	- / -	- / -	- / -	- / -	- / 0.379 - / 26.644
Subtotal: AN/APR-39D(V)2 RWR (OSIP 014-90)		17 / 191.434	17 / 7.162	33 / 29.944	35 / 29.533	- / -	35 / 29.533	29 / 23.964	32 / 27.043	33 / 28.608	33 / 29.156	397 / 400.301 626 / 767.145
Subtotal: Procurement, All Modification Items		- / 191.434	- / 7.162	- / 29.944	- / 29.533	- / -	- / 29.533	- / 23.964	- / 27.043	- / 28.608	- / 29.156	- / 400.301 - / 767.145
Support (All Modification Items)												
2.1) ECO		- / 20.852	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.852
2.2) OCO ECO		- / 3.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.834
2.3) OCO B(V)X Computer Processor ECP		- / 1.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.870
2.4) D(V)2 System ECP		- / 54.271	- / 3.970	- / 3.842	- / 3.156	- / -	- / 3.156	- / 2.532	- / 1.927	- / 1.017	- / 1.037	- / - 71.752
2.5) C(V)2 System SW		- / 3.199	- / 1.408	- / 0.405	- / 0.406	- / -	- / 0.406	- / 0.327	- / 0.328	- / 0.329	- / 0.345	- / - 6.747
2.6) D(V)2 System SW		- / 4.149	- / 5.109	- / 2.707	- / 2.893	- / -	- / 2.893	- / 2.905	- / 2.919	- / 2.933	- / 3.001	- / 26.397 - 53.013
2.7) Data		- / 1.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.024
2.8) Training Equipment		- / 0.960	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.960
2.9) Support Equipment		- / 2.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.082
2.10) OCO Support Equipment		- / 1.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.073
2.11) ILS		- / 6.309	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.309
2.12) OCO ILS		- / 0.351	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.351

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 1 / AN/APR-39D(V)2 RWR (OSIP 014-90)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Models of Systems Affected: UH-1Y, AH-1Z, MV-22, KC-130T, CH-53E/K, KC-130J, MH-53, HH-60H, MH-60S	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.13) OCO Other Support	- / 6.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.122
2.14) Other Support ⁽³⁾	- / 47.573	- / 2.114	- / 2.171	- / 2.311	- / -	- / 2.311	- / 1.989	- / 1.959	- / 1.977	- / 2.016	- / 17.436	- / 79.546
2.15) OCO MV-22 Integration Support	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.000
2.16) OCO AH-1 Integration Support	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.000
<i>Subtotal: Support</i>	- / 165.669	- / 12.601	- / 9.125	- / 8.766	- / -	- / 8.766	- / 7.753	- / 7.133	- / 6.256	- / 6.399	- / 43.833	- / 267.535
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	357.103	19.763	39.069	38.299	0.000	38.299	31.717	34.176	34.864	35.555	444.134	1,034.680

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 1 / AN/APR-39D(V)2 RWR (OSIP 014-90)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: AN/APR-39D(V)2 RWR (OSIP 014-90)		

Footnotes:

(1) 1.1.1) Quantiles decreased in FY 2018 - 2023 to reflect escalated actual unit cost pricing in contract options. Price difference between V-22 and H-1 is because V22 requires two additional receivers. Cost to complete quantities increased due to adding UH-1Y.

(2) 1.1.2) Quantiles decreased in FY 2018 - 2023 to reflect escalated actual unit cost pricing in contract options Price difference between V-22 and H-1 is because V22 requires two additional receivers.

(3) 2.14) Other support increases due to inflation.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	185.970	3.263	3.056	5.491	0.000	5.491	0.000	0.000	0.000	0.000	5.333	203.113
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	185.970	3.263	3.056	5.491	0.000	5.491	0.000	0.000	0.000	0.000	5.333	203.113
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	185.970	3.263	3.056	5.491	0.000	5.491	0.000	0.000	0.000	0.000	5.333	203.113
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The replacement of the AN/ALE-39 Dispenser System with the AN/ALE-47 will correct serious safety problems and greatly improve aircraft survivability. As a joint program, Under Secretary of Defense (Acquisition Technology & Logistics) memo of November 1986 directed the United States Navy (USN) and United States Army (US Army) to participate in the United States Air Force (USAF) Engineering Manufacturing Development (EMD) phase. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The AN/ALE-47 system is in production and being installed in multiple USN, USMC and USAF aircraft. This OSIP provides funding for retrofit installation of AN/ALE-47 on F/A-18/C/D aircraft lots 12-17 and to procure new AN/ALE-47 Test Sets (ALM-290) to replace original version ALM-286s.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CH-53E, EA-6B,UH-1N, MH-53E, F/A-18C/D, AV-8B, MV-22, KC-130F/R/T, H-60, P-3					Modification Type: MISSION CAPABILITY					Related RDT&E PEs:			
Financial Plan		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement													
Modification Item 1 of 1: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)													
A Kits													
Recurring													
1.1.1) Archived AKits/Recurring - Organic		2,539 / 20.679	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,539 / 20.679
1.1.2) F/A-18 A-Kit - NonOrganic ⁽⁴⁾		201 / 9.464	25 / 1.213	25 / 1.148	25 / 1.350	- / -	25 / 1.350	- / -	- / -	- / -	- / -	24 / 1.296	300 / 14.471
Subtotal: Recurring		- / 30.143	- / 1.213	- / 1.148	- / 1.350	- / -	- / 1.350	- / -	- / -	- / -	- / -	- / 1.296	- / 35.150
Non-Recurring													
1.2.1) Archived AKits/Non-Recurring - Organic		22 / 6.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 6.458
Subtotal: Non-Recurring		- / 6.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.458
B Kits													
Recurring													
2.1.1) Archived BKits/Recurring - Organic		6,120 / 74.298	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6,120 / 74.298
2.1.2) F/A-18 B Kits - Organic ⁽⁵⁾		201 / 7.366	25 / 0.400	25 / 0.400	25 / 1.200	- / -	25 / 1.200	- / -	- / -	- / -	- / -	24 / 1.152	300 / 10.518
Subtotal: Recurring		- / 81.664	- / 0.400	- / 0.400	- / 1.200	- / -	- / 1.200	- / -	- / -	- / -	- / -	- / 1.152	- / 84.816
Subtotal: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)		9,083 / 118.265	50 / 1.613	50 / 1.548	50 / 2.550	- / -	50 / 2.550	- / -	- / -	- / -	- / -	48 / 2.448	9,281 / 126.424
Subtotal: Procurement, All Modification Items		- / 118.265	- / 1.613	- / 1.548	- / 2.550	- / -	- / 2.550	- / -	- / -	- / -	- / -	- / 2.448	- / 126.424
Support (All Modification Items)													
3.1) Equip ECO		- / 0.783	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.783
3.2) Data		- / 0.056	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.056
3.3) Training Equip		- / 3.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.185
3.4) Support Equip		- / 3.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.236
3.5) F/A-18 ALM-290 Test Sets ⁽⁶⁾		- / 2.148	- / 0.362	- / 0.301	- / 0.433	- / -	- / 0.433	- / -	- / -	- / -	- / -	- / 0.425	- / 3.669
3.6) Title 9 Supplemental		- / 1.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.333
3.7) ILS		- / 1.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.333
3.8) Other Support ⁽⁷⁾		- / 42.847	- / 0.168	- / 0.287	- / 0.258	- / -	- / 0.258	- / -	- / -	- / -	- / -	- / 0.300	- / 43.860
Subtotal: Support		- / 54.921	- / 0.530	- / 0.588	- / 0.691	- / -	- / 0.691	- / -	- / -	- / -	- / -	- / 0.725	- / 57.455

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CH-53E, EA-6B,UH-1N, MH-53E, F/A-18C/D, AV-8B, MV-22, KC-130F/R/T, H-60, P-3				Modification Type: MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Installation													
Modification Item 1 of 1: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)	- / 12.784	- / 1.120	- / 0.920	- / 2.250	- / 0.000	- / 2.250	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2.160	- / 19.234	
<i>Subtotal: Installation</i>	- / 12.784	- / 1.120	- / 0.920	- / 2.250	- / -	- / 2.250	- / -	- / -	- / -	- / -	- / 2.160	- / 19.234	
Total													
Total Cost (Procurement + Support + Installation)	185.970	3.263	3.056	5.491	0.000	5.491	0.000	0.000	0.000	0.000	5.333	203.113	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)												
Manufacturer Information												
Manufacturer Name: NAWC, Weapon Center							Manufacturer Location: China Lake, CA					
Administrative Leadtime (in Months): 2							Production Leadtime (in Months): 4					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Nov 2016	Nov 2017	Nov 2018									
Delivery Dates	Feb 2017	Feb 2018	Feb 2019									
Manufacturer Name: TBD							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 0					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Manufacturer Name: TBD							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 0					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Depot Level Installation:: Installation Name: F/A-18C Installation Costs												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	201 / 12.784	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	201 / 12.784
FY 2017	- / -	25 / 1.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 1.120
FY 2018	- / -	- / -	25 / 0.920	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 0.920
FY 2019	- / -	- / -	- / -	25 / 2.250	0 / 0.000	25 / 2.250	- / -	- / -	- / -	- / -	0 / 0.000	25 / 2.250
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.160	24 / 2.160
Total	201 / 12.784	25 / 1.120	25 / 0.920	25 / 2.250	0 / 0.000	25 / 2.250	- / -	- / -	- / -	- / -	24 / 2.160	300 / 19.234

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0576 / Common ECM Equipment										Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)																															
Installation Information																															
Method of Implementation: Depot Level Installation:: Installation Name: F/A-18C Installation Costs																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	201	-	8	9	8	-	8	9	8	-	8	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	300
Out	187	14	-	8	9	8	-	8	9	8	-	8	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	300
Method of Implementation (Organic): Archived AKits/Recurring - Not Installed																															
																										Installation Quantity: 2539					
Method of Implementation (Organic): Archived AKits/Non-Recurring - Not Installed																															
																										Installation Quantity: 22					
Method of Implementation (Organic): Archived BKits/Recurring - Not Installed																															
																										Installation Quantity: 6120					
Method of Implementation (Organic): F/A-18 B Kits																															
																										Installation Quantity: 300					
Footnotes: (4) 1.1.2) F/A-18 A-Kit: During FY 2017 thru FY 2019 A-kits are being procured for F/A-18C 2-dispenser, F/A-18D 2-dispenser, and F/A-18D 4-dispenser configurations. The A-kit components and unit costs vary, depending on which type, model, series (TMS) being modified and quantity of dispensers (2 or 4 each) per TMS. The FY 2019 cost increase is driven by additional F/A-18Ds becoming available for Air Frame Change (AFC)-566, which requires (4) dispensers and requires increased hours to complete modification. Commander, Naval Air Forces (CNAF) is continuing extension of flight hours and service life on the F/A-18s, possibly to FY 2031, to fill strike fighter shortfall, requiring (49) additional aircraft modifications. FY 2019 funds (25) F/A-18 A-kits, leaving a Cost-to-Complete quantity of (24) for the planned aircraft modifications to accommodate F/A-18 aircraft with extended service life. (5) 2.1.2) F/A-18 B Kits: FY 2019 B-Kit cost increase is due to procurement of new B-kit components (where in previous years some B-kit components were reused or reconditioned from retiring aircraft with ALE-47 installed). B-kit unit cost and the number of components vary depending on the T/M/S receiving the modification; some "D" model aircrafts have (4) dispensers vice (2) for "C" model. The Technical Directive for AFC-566 was approved to allow for stand-alone modifications, which will provide increased schedule flexibility ALE-47 Retrofit aircraft induction without schedule delays of concurrent aircraft modifications. Based on CNAF continuing extension of flight hours and service life on the F/A-18s, possibly to FY 2031, to fill strike fighter shortfall. FY 2019 funds (25) F/A-18 B-kits, leaving a Cost-To-Complete quantity of (24) for the planned aircraft modifications to accommodate F/A-18 aircraft with extended service life. (6) 3.6) F/A-18 ALM-290 Test Sets: FY 2019 cost increase for the ALM-290 test sets is due to implementation of AFC-566 which increases ALE-47 O-Level maintenance test equipment allowances per squadron, requiring additional quantity procurement. In addition, ALM-290 unit cost increase of the ALM-290s is due to redesign for miscellaneous components obsolescence. (7) 3.12) Other Support: FY 2018 cost increase is due to engineering and logistics support costs required technical oversight in production of kit components, conducting engineering analysis of issues identified during component acceptance, and updates to drawings as required.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	539.738	130.434	88.263	74.708	0.000	74.708	63.472	68.330	69.666	71.110	386.465	1,492.186
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	539.738	130.434	88.263	74.708	0.000	74.708	63.472	68.330	69.666	71.110	386.465	1,492.186
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	539.738	130.434	88.263	74.708	0.000	74.708	63.472	68.330	69.666	71.110	386.465	1,492.186
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The AN/AAQ-24 Department of the Navy, Large Aircraft Infrared Countermeasures (DoN LAIRCM) System (B-kit) consists of 5 components: Missile Warning Sensor (MWS, 5 or 6), processor (1), Guardian Laser Transmitter Assembly (GLTA, 2) and Controller Interface Unit (CIU)(1). The Defense Intelligence Agency (DIA) System Threat Assessment Report (STAR) and current United States Marine Corps (USMC) operations pose surface to air threats requiring DoN LAIRCM capabilities to maintain survivability against improved Man-Portable Air Defense Systems (MANPADS), Rocket Propelled Grenades (RPG), hostile gunfire, Anti-Aircraft Artillery (AAA) and laser-directed weapons. This budget supports procurement, Engineering Change Proposals (ECPs), integration, validation, Follow-on Test and Evaluation (FOT&E) and fielding of DoN LAIRCM systems on CH-53E/K, KC-130J, P-8A and MV-22 platforms in accordance with Statement of Operational Requirement Document (ORD) number 756-88-08. Based on FY 2015 Joint Urgent Operational Needs Statement (JUONS) SO-0010, United States Special Operations Command (SOCOM) and United States of America (USA) programs have approved requirements for DoN LAIRCM integration. FY18 A/C Integration NRE cost increased due to Processor Upgrade requirements. We reduced FY18 B-Kit by four systems and reduced S/W Upgrade; funds were re-aligned to support A/C Integration NRE (Processor Upgrade).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: DoN LAIRCM program achieved Milestone C / Full-Rate Production (FRP) in January 2010. The Engineering Change Proposals (ECPs) provide required improvements and address identified deficiencies (e.g. Advanced Threat Warning (ATW), to improve Missile Warning Sensor (MWS) detection (Probability detection (Pd)), lowered False Alarm Rate (FAR), threat information for Smart Dispensing, Hostile Fire Indication (HFI) and Laser Warning (LW)). FY 2017 OCO procured 12 DoN LAIRCM (AN/AAQ-24) B-kits with Advanced Threat Warning (ATW) sensor capabilities for KC-130J aircraft and 12 DoN LAIRCM (AN/AAQ-24) B-kits with Advanced Threat Warning (ATW) sensor capabilities for MV-22 aircraft. FY 2018 OCO procures 12 DoN LAIRCM (AN/AAQ-24) B-kits with Advanced Threat Warning (ATW) sensor capabilities for MV-22 aircraft supporting SPMAGTF.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E, CH-53K , MV-22, P-8A, KC-130J, C-20, C-40, CV-22				Modification Type: MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)													
B Kits													
Recurring													
1.1.1) Archived B Kits - Organic	105 / 168.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 168.082	
1.1.2) DIRCM (B Kits) MV-22 - Organic ⁽⁸⁾	1 / 2.761	29 / 63.777	14 / 36.034	24 / 61.434	- / -	24 / 61.434	22 / 53.975	24 / 46.688	21 / 38.525	33 / 35.358	166 / 273.900	334 / 612.452	
1.1.3) DIRCM (B Kits) KC-130J - Organic ⁽⁹⁾	10 / 24.118	12 / 27.378	12 / 28.392	2 / 4.865	- / -	2 / 4.865	- / -	4 / 10.037	10 / 25.296	10 / 26.112	19 / 50.350	79 / 196.548	
1.1.4) ATW Retrofit Kits - Organic	105 / 103.218	14 / 10.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	119 / 113.291	
1.1.5) P3I Retrofit - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.800	- / -	24 / 1.920	189 / 16.065	237 / 19.785	
Subtotal: Recurring	- / 298.179	- / 101.228	- / 64.426	- / 66.299	- / -	- / 66.299	- / 53.975	- / 58.525	- / 63.821	- / 63.390	- / 340.315	- / 1,110.158	
Non-Recurring													
1.2.1) A/C Integration NRE - Organic ⁽¹⁰⁾	- / 3.361	- / 16.601	- / 14.572	- / 0.350	- / -	- / 0.350	- / 1.437	- / 1.920	- / -	- / -	- / -	- / 38.241	
1.2.2) Navy Test - Organic	- / 12.495	- / 3.660	- / 1.931	- / 1.628	- / -	- / 1.628	- / 1.750	- / 1.651	- / 0.972	- / 1.422	- / -	- / 25.509	
1.2.3) Archived B Kits Non Recurring - Organic	- / 45.159	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 45.159	
Subtotal: Non-Recurring	- / 61.015	- / 20.261	- / 16.503	- / 1.978	- / -	- / 1.978	- / 3.187	- / 3.571	- / 0.972	- / 1.422	- / 0.000	- / 108.909	
Subtotal: DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)	221 / 359.194	55 / 121.489	26 / 80.929	26 / 68.277	- / -	26 / 68.277	22 / 57.162	52 / 62.096	31 / 64.793	67 / 64.812	374 / 340.315	874 / 1,219.067	
Subtotal: Procurement, All Modification Items	- / 359.194	- / 121.489	- / 80.929	- / 68.277	- / -	- / 68.277	- / 57.162	- / 62.096	- / 64.793	- / 64.812	- / 340.315	- / 1,219.067	
Support (All Modification Items)													
2.1) Engineering Change Orders	- / 65.631	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 65.631	
2.3) Software Upgrade	- / -	- / 1.226	- / 0.369	- / 1.263	- / -	- / 1.263	- / 1.115	- / 1.120	- / 0.233	- / 1.527	- / 18.500	- / 25.353	
2.4) Data	- / 0.596	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.596	
2.5) Training Equipment	- / 0.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.024	
2.6) Support Equipment ⁽¹¹⁾	- / 4.132	- / 1.408	- / 1.280	- / 0.690	- / -	- / 0.690	- / 0.690	- / 0.690	- / 0.690	- / 0.820	- / 7.150	- / 17.550	
2.7) ILS	- / 15.346	- / 0.649	- / 1.745	- / 0.378	- / -	- / 0.378	- / 0.412	- / 0.260	- / -	- / -	- / -	- / 18.790	
2.8) Other Support	- / 94.815	- / 5.662	- / 3.940	- / 4.100	- / -	- / 4.100	- / 4.093	- / 4.164	- / 3.950	- / 3.951	- / 20.500	- / 145.175	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: CH-53E, CH-53K , MV-22, P-8A, KC-130J, C-20, C-40, CV-22			Modification Type: MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Subtotal: Support	- / 180.544	- / 8.945	- / 7.334	- / 6.431	- / -	- / 6.431	- / 6.310	- / 6.234	- / 4.873	- / 6.298	- / 46.150	- / 273.119
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	539.738	130.434	88.263	74.708	0.000	74.708	63.472	68.330	69.666	71.110	386.465	1,492.186

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)		

Footnotes:

- ⁽⁸⁾ 1.1.2) FY21: MV-22 Total Quantity initially assumed 1/3 of MV-22s would receive GLTAs (completed in 2021); remaining would be procured without GLTA(PMA275 to determine final configuration). FY20 thru FY23 DON LAIRCM unit cost varies based on platform configuration (WRA qty) and combined procurements for other customers. Utilization of Other Customer Funds enabled a decrease in Cost to Complete.
- ⁽⁹⁾ 1.1.3) DON LAIRCM unit cost varies based on platform configuration (WRA qty) and combined procurements for other customers.
- ⁽¹⁰⁾ 1.2.1) FY18 A/C Integration NRE cost increased due to Processor Upgrade requirements. We reduced FY18 B-Kit (1.1.1) by four systems and reduced S/W Upgrade (2.3); funds were re-aligned to support A/C Integration NRE (Processor Upgrade).
- ⁽¹¹⁾ 2.6) FY18 Support Equipment and ILS cost increased due to additional A/C Integration NRE efforts and increased MEU & SPMAGTF deployment sites requiring additional support equipment.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment						Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	353.518	54.568	49.976	46.854	0.000	46.854	47.039	48.003	48.952	49.911	90.409	789.230
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	353.518	54.568	49.976	46.854	0.000	46.854	47.039	48.003	48.952	49.911	90.409	789.230
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	353.518	54.568	49.976	46.854	0.000	46.854	47.039	48.003	48.952	49.911	90.409	789.230
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: Integrated Defensive Electronic Countermeasure (IDECM) Block (IB-4) is an Engineering Change Proposal (ECP) to the ALQ-214 intended to render it suitable for operation on the F/A-18C/D aircraft equipped with ALR-67(V)2 or ALR-67(V)3 Radar Warning Receivers, while retaining all IDECM suite functionality when installed on F/A-18E/F aircraft. This ECP will result in a Common On-Board Jammer (COBJ) system that must meet the requirements of the COBJ Block 2 Operational Requirements Document (ORD) #624-78-03 and be compatible with the ALE-55 Fiber Optic Towed Decoy (FOTD). The Electronic Frequency Converter (EFC) enables dataflow via the fiber optic cable to the FOTD and is part of the IB-4 configuration when installed on the F/A-18E/F aircraft. This Operational Safety Improvement Program (OSIP) is for the onboard portion of the IB-4 configuration. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The ALQ-214 received Milestone III approval in January 2004 and is still in Full-Rate Production (FRP). FRP 9 was the first ALQ-214 production lot in the IB-4 configuration and was awarded 3rd Qtr FY 2012. Annual production contract awards are expected to continue through FY 2027. A total of 324 IB-4 ALQ-214s are planned for procurement.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment						Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18C/D/E/F				Modification Type: MISSION CAPABILITY				Related RDT&E PEs: 0604270N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)													
B Kits													
Recurring													
1.1.1) Archived B Kits Install Equipment - Organic	263 / 34.971	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	263 / 34.971	
1.1.2) ALQ-214 Retrofit Kits (E/F) Install Equipment - Organic ⁽¹²⁾	258 / 4.992	96 / 1.923	96 / 1.981	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	450 / 8.896	
1.1.3) ALQ-214 Install Equipment - Organic ⁽¹³⁾	143 / 278.934	25 / 45.546	22 / 40.759	21 / 39.833	- / -	21 / 39.833	21 / 40.757	21 / 41.671	22 / 42.579	22 / 43.472	27 / 58.134	324 / 631.685	
Subtotal: Recurring	- / 318.897	- / 47.469	- / 42.740	- / 39.833	- / -	- / 39.833	- / 40.757	- / 41.671	- / 42.579	- / 43.472	- / 58.134	- / 675.552	
Non-Recurring													
1.2.1) B-Kits Non Recurring - Organic	- / 1.319	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.319	
Subtotal: Non-Recurring	- / 1.319	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.319	
Subtotal: COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12)	664 / 320.216	121 / 47.469	118 / 42.740	21 / 39.833	- / -	21 / 39.833	21 / 40.757	21 / 41.671	22 / 42.579	22 / 43.472	27 / 58.134	1,037 / 676.871	
Subtotal: Procurement, All Modification Items	- / 320.216	- / 47.469	- / 42.740	- / 39.833	- / -	- / 39.833	- / 40.757	- / 41.671	- / 42.579	- / 43.472	- / 58.134	- / 676.871	
Support (All Modification Items)													
2.3) Training Equipment	- / 0.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.855	
2.6) Other Support ⁽¹⁴⁾	- / 32.447	- / 7.099	- / 7.236	- / 7.021	- / -	- / 7.021	- / 6.282	- / 6.332	- / 6.373	- / 6.439	- / 32.275	- / 111.504	
Subtotal: Support	- / 33.302	- / 7.099	- / 7.236	- / 7.021	- / -	- / 7.021	- / 6.282	- / 6.332	- / 6.373	- / 6.439	- / 32.275	- / 112.359	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	353.518	54.568	49.976	46.854	0.000	46.854	47.039	48.003	48.952	49.911	90.409	789.230	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)		
Footnotes: ⁽¹²⁾ ALQ-214 Retrofit Kits (E/F) Install Equipment: FY 2018 additional ALQ-214 E/F Retrofit kits procured to correlate to additional aircraft procured by PMA-265. Retrofit kits procured through FY 2018 to support operational deployments with the Block 4 Capability. ⁽¹³⁾ ALQ-214 Installation Equipment quantity increase due to reduced unit pricing achieved by leveraging economies of scale via FMS/NAVSUP/PMA-265 systems that are purchased in addition to the PMA-272 budgeted quantities. This unit cost reduction in FY 2017 through the FYDP enables the program to complete 2 years earlier than planned. ⁽¹⁴⁾ ALQ-214 Other Support: Funding supports annual ALQ-214 Repair and Field Support Contract as well as Program and Engineering Support.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.808	0.442	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.250
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.808	0.442	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.250
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.808	0.442	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.250
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: This Operational Safety Improvement Program (OSIP) is for the correction of discrepancies and to effect changes to ALR-67(V)2 system and electronic countermeasure equipment in aircraft that have been delivered for fleet operations. This system requires various upgrade initiative and logistic support to keep the F/A-18 a capable aircraft with a robust defensive system that improves its survivability. This OSIP will provide funding for the upgrade of the ALR-67(V)2 computer, low band antenna, special receiver and quadrant receiver weapons replaceable assemblies. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Developed Preliminary Design Review (PDR) for Program Control Unit (PCU)1 drawing package and prototype Circuit Card Assemblies (CCA), and performed Critical Design Review (CDR), conducted system testing, evaluations, environmental and qualification testing, modify Shop Replaceable Assemblies (SRA) with Diminished Manufacturing Source (DMS) issued and developed Acceptance Test Plans (ATP) and Engineering Change Proposals (ECP) and verified testing and evaluations of new designs. The United States Navy (USN) Fleet Support Team provide system engineering qualification on aircraft, support equipment and develop technical directives and any additional Integrated Logistics Support (ILS) requirements. The USN and contractor software support activities develops software integrations.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F/A-18C/D/E/F				Modification Type: SAFETY/RELIABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> CORRECTIONS OF DISCREPANCIES (OSIP 017-12)													
A Kits													
Recurring													
1.1.1) Archived A Kits - Organic	15 / 0.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.363	
1.1.2) RR-2055 Special Receiver ECP- TBD - Organic	7 / 0.270	8 / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.540	
<i>Subtotal: Recurring</i>	- / 0.633	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.903	
Non-Recurring													
1.2.1) Installation Kits NR - Organic	- / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.130	
<i>Subtotal: Non-Recurring</i>	- / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.130	
<i>Subtotal: CORRECTIONS OF DISCREPANCIES (OSIP 017-12)</i>	22 / 0.763	8 / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.033	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.763	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.033	
Support (All Modification Items)													
3.6) Other Support ⁽¹⁵⁾	- / 1.045	- / 0.172	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.217	
<i>Subtotal: Support</i>	- / 1.045	- / 0.172	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.217	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	1.808	0.442	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.250	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: CORRECTIONS OF DISCREPANCIES (OSIP 017-12)		
Footnotes: (15) 3.6) Other Support in FY 2017 supports RR-2055 Special Receiver procurement receipt and modification.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment						Modification Number / Title: 6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.450	0.892	0.838	0.954	0.000	0.954	0.000	0.000	0.000	0.000	0.000	4.134
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.450	0.892	0.838	0.954	0.000	0.954	0.000	0.000	0.000	0.000	0.000	4.134
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.450	0.892	0.838	0.954	0.000	0.954	0.000	0.000	0.000	0.000	0.000	4.134
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: This Operational Safety Improvement Program (OSIP) is for the correction of discrepancies to affect changes to assault Electronic Countermeasure (ECM) equipment in aircraft that have been delivered for fleet operations. These ECM systems require various upgrade initiatives and logistic support to keep these aircraft mission capable with a robust defensive system that ensures its survivability. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The contract will modify shop replaceable assemblies with diminished manufacturing source issues and conduct engineering change proposals, and verify testing and evaluations of modification designs. The United States Navy Fleet Support Team will provide system engineering qualifications on aircraft, support equipment, write technical directives, upgrade technical data and perform any additional integrated logistics support requirements. United States Navy and contractor software support activities will integrate software as needed.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment						Modification Number / Title: 6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: MH-SH-60 R/S, AH-1W				Modification Type: SAFETY/RELIABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)													
B Kits													
Recurring													
2.1.1) Infrared Source - Organic ⁽¹⁶⁾	105 / 0.525	165 / 0.697	173 / 0.692	180 / 0.718	- / -	180 / 0.718	- / -	- / -	- / -	- / -	- / -	623 / 2.632	
<i>Subtotal: Recurring</i>	- / 0.525	- / 0.697	- / 0.692	- / 0.718	- / -	- / 0.718	- / -	- / -	- / -	- / -	- / 0.000	- / 2.632	
Non-Recurring													
2.2.1) B-Kits NRE - Organic	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	
<i>Subtotal: Non-Recurring</i>	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.600	
<i>Subtotal: ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)</i>	105 / 1.125	165 / 0.697	173 / 0.692	180 / 0.718	- / -	180 / 0.718	- / -	- / -	- / -	- / -	- / -	623 / 3.232	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1.125	- / 0.697	- / 0.692	- / 0.718	- / -	- / 0.718	- / -	- / -	- / -	- / -	- / 0.000	- / 3.232	
Support (All Modification Items)													
3.1) Other Support	- / 0.325	- / 0.195	- / 0.146	- / 0.236	- / -	- / 0.236	- / -	- / -	- / -	- / -	- / -	- / 0.902	
<i>Subtotal: Support</i>	- / 0.325	- / 0.195	- / 0.146	- / 0.236	- / -	- / 0.236	- / -	- / -	- / -	- / -	- / 0.000	- / 0.902	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	1.450	0.892	0.838	0.954	0.000	0.954	0.000	0.000	0.000	0.000	0.000	4.134	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)		
Footnotes: ⁽¹⁶⁾ 2.1.2 Infrared Sources: Common Electronic Countermeasure (ECM) equipment is made up of multiple components for strike and assault aircraft protection systems.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 7 / ASSAULT DIRCM (OSIP 018-17)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	27.460	40.970	0.000	9.820	9.820	0.000	0.000	0.000	0.000	0.000	78.250
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	27.460	40.970	0.000	9.820	9.820	0.000	0.000	0.000	0.000	0.000	78.250
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	27.460	40.970	0.000	9.820	9.820	0.000	0.000	0.000	0.000	0.000	78.250
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Description: Assault Directed Infrared Countermeasure (ADIRCM) is the budget name for DAIRCM which is a lightweight Threat Warning System (TWS) and Infrared Countermeasure (IRCM) developed by the Navy Research Lab under an FY 2004 Office of Naval Research Future Naval Capability (FN04-03), Integrated E/O IR Self-Protect Suite for Rotary Wing Aircraft. PMA272 has funded this Future Naval Capability (FNC) since 2006 as a risk mitigation for both the Joint and Allied Threat Awareness System (JATAS) and the Common Infrared Countermeasures (CIRCM) system. The DAIRCM nomenclature is the AAQ-45 System which offers significant savings in Size, Weight and Power (SWaP) and cost avoidance. The system consists of a centralized processor and laser with high power fiber optic cables leading to 4-6 two-color IR sensors. Each sensor incorporates a pointer tracker, which allows laser energy to be focused on incoming threats. FY 2017 through FY 2019 Overseas Contingency Operations (OCO) funds for AAQ-45 provides increased survivability against Man-Portable Air Defense Systems (MANPADS), Rocket Propelled Grenades (RPG), hostile gunfire, Anti-Aircraft Artillery (AAA) and laser-directed weapons for combat, assault rotary wing and fixed wing aircraft in theater. FY 2017 OCO funds completed the original Joint Urgent Operational Need Statement (JUONS) fielding requirements. FY 2018 OCO funds are required to procure assets in support of fielding two additional Marine Expeditionary Units (MEUs). The FY 2018 OCO ensures the capability to conduct missions in areas where the JUONS threat exists until the Program of Record (PoR) assets can be fielded. FY 2019 OCO funds are required to procure assets in support of fielding MH-60S on two additional MEU's. Developmental efforts: JUONS phase includes the Non-Recurring Engineering (NRE) required to develop integrate and test all hardware, software and firmware to field AAQ-45. Efforts will also include the manufacturing of AAQ-45 test articles, test bench fixtures, fleet representative hardware and system training. The driving requirements can be found in the classified JUONS SO-0010 and the classified Request for Initiation of Rapid Deployment Capability (RDC) process for an Advanced Threat Warning and Inexhaustible Infrared Countermeasure for Rotary Wing Aircraft (RDC Ser N9/16S139158). Two prime contractors, DRS and Daylight Solutions were awarded sole source contracts for the AAQ-45 Weapons Replaceable Assemblies (WRA). During the JUONS phase, the AAQ-45 system will be installed on the following United States Navy (USN)/United States Marine Corps (USMC) aircraft identified in JUONS SO-0010: AH-1Z, UH-1Y, and MH-60S. The AAQ-45 configuration on these aircraft will include one processor, one laser and four sensors. The USN's MH-60S is the lead platform for AAQ-45 JUONS configuration.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 7 / ASSAULT DIRCM (OSIP 018-17)				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: AH-1Z, UH-1Y, MH-60S				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> ASSAULT DIRCM (OSIP 018-17)													
B Kits													
Recurring													
1.1.1) OCO Install Equip AH-1Z - Organic	- / -	5 / 9.725	10 / 13.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 22.925	
1.1.2) OCO Install Equip UH-1Y - Organic	- / -	4 / 7.780	8 / 10.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 18.340	
1.1.3) OCO Install Equip MH-60S - Organic ⁽¹⁷⁾	- / -	13 / 5.835	6 / 7.920	- / 0.000	6 / 8.870	6 / 8.870	- / -	- / -	- / -	- / -	- / -	25 / 22.625	
<i>Subtotal: Recurring</i>	- / 0.000	- / 23.340	- / 31.680	- / 0.000	- / 8.870	- / 8.870	- / -	- / -	- / -	- / -	- / 0.000	- / 63.890	
<i>Subtotal: ASSAULT DIRCM (OSIP 018-17)</i>	- / -	22 / 23.340	24 / 31.680	- / 0.000	6 / 8.870	6 / 8.870	- / -	- / -	- / -	- / -	- / -	52 / 63.890	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 23.340	- / 31.680	- / 0.000	- / 8.870	- / 8.870	- / -	- / -	- / -	- / -	- / 0.000	- / 63.890	
Support (All Modification Items)													
2.1) OCO Other Support ⁽¹⁸⁾	- / -	- / 4.120	- / 9.290	- / 0.000	- / 0.950	- / 0.950	- / -	- / -	- / -	- / -	- / -	- / 14.360	
<i>Subtotal: Support</i>	- / 0.000	- / 4.120	- / 9.290	- / 0.000	- / 0.950	- / 0.950	- / -	- / -	- / -	- / -	- / 0.000	- / 14.360	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	27.460	40.970	0.000	9.820	9.820	0.000	0.000	0.000	0.000	0.000	78.250	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 7 / ASSAULT DIRCM (OSIP 018-17)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: ASSAULT DIRCM (OSIP 018-17)		
Footnotes: ⁽¹⁷⁾ (1) 1.1.3 Unit cost increase due to procurement of only 6 systems in FY19 vice 24 in FY18 ⁽¹⁸⁾ 3.1) OCO Other Support: FY 2018 increases as the program transitions from development to PoR. Other support includes Government Teams supporting procurement of assets, project management, engineering support for initial B-kit fielding as well as product support.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 8 / INACTIVE OSIPs

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	736.954	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	736.954
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	736.954	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	736.954
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	736.954	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	736.954
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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LI 0576 - Common ECM Equipment
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 8 / INACTIVE OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: INACTIVE OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0577 / Common Avionics Changes					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A				Other Related Program Elements: N/A					
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,460.647	144.838	123.507	117.551	0.000	117.551	83.544	91.236	105.177	129.379	562.115	3,817.994
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,460.647	144.838	123.507	117.551	0.000	117.551	83.544	91.236	105.177	129.379	562.115	3,817.994
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,460.647	144.838	123.507	117.551	0.000	117.551	83.544	91.236	105.177	129.379	562.115	3,817.994
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds common avionics equipment for multiple aircraft. The specific modifications budgeted and programmed are: The Navigation Satellite Timing and Ranging Global Positioning System (GPS) Naval Warfare program is designed to provide a highly accurate position and time to users worldwide in all weather conditions. The GPS will interface with communication, navigation, and weapon systems equipment (standard attitude heading reference systems, inertial navigation systems, on-board computers, etc.) in selected applications. GPS is a Department of Defense mandated requirement for all aircraft operating in the National Air Space System after the year 2000. GPS Modernization is designed to provide GPS Electronic Protection from jamming and interference, support GPS Electronic Attack by denying hostile forces access to space based Positioning, Navigation, and Timing (PNT) information, and GPS Electronic Support by detection, characterization, and geo-location of intentional PNT jamming and unintentional interference sources with the intent to neutralize those sources and mitigate their effects. Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) provides civil upgrades to communication, navigation, and surveillance systems enabling global access to increasingly congested airspace, and GPS based routes and procedures. Avionics Component Improvement Program (AvCIP) provides resources to address avionics component critical readiness degraders, performance reliability deficiencies, obsolescence threatening loss of sustainability and top Fleet operational or support cost drivers. Secure Communications (SECOM) Avionics Modernization Program provides secure Ultra High Frequency/Very High Frequency, Amplitude Modulation/Frequency Modulation, Anti-Jam radio systems for Line of Sight and Beyond Line of Sight Satellite Communication voice and data communications including modernized cryptographic capabilities and anti-jam waveforms.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy	Date: February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0577 / Common Avionics Changes

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Global Positioning System (GPS) (OSIP 71-88) (Common Avionics (Safety) (Added Capability))				- / 384.068	- / 7.091	- / 7.417	- / 7.543	- / 0.000	- / 7.543
P-3a	2 / Global Positioning System (GPS) Modernization (OSIP 02-22) (Common Avionics (Modernization))				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01) (Common Avionics Modification)				- / 951.599	- / 129.156	- / 111.090	- / 95.150	- / 0.000	- / 95.150
P-3a	4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09) (Common Avionics Modification)				- / 21.545	- / 8.591	- / 5.000	- / 5.000	- / 0.000	- / 5.000
P-3a	5 / Secure Communications (OSIP 10-19) (Common Avionics (Modernization))				- / 0.000	- / 0.000	- / 0.000	- / 9.858	- / 0.000	- / 9.858
P-3a	6 / Inactive OSIPs (TBD)				- / 1,103.435	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 2,460.647	- / 144.838	- / 123.507	- / 117.551	- / 0.000	- / 117.551

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Global Positioning System (GPS) (OSIP 71-88) (Common Avionics (Safety) (Added Capability))				- / 8.118	- / 9.469	- / 10.533	- / 12.700	- / 104.415	- / 551.354
P-3a	2 / Global Positioning System (GPS) Modernization (OSIP 02-22) (Common Avionics (Modernization))				- / 0.000	- / 0.000	- / 1.402	- / 21.808	- / 297.685	- / 320.895
P-3a	3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01) (Common Avionics Modification)				- / 43.827	- / 56.399	- / 41.491	- / 21.785	- / 22.935	- / 1,473.432
P-3a	4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09) (Common Avionics Modification)				- / 5.100	- / 5.202	- / 5.301	- / 5.407	- / 130.535	- / 191.681
P-3a	5 / Secure Communications (OSIP 10-19) (Common Avionics (Modernization))				- / 26.499	- / 20.166	- / 46.450	- / 67.679	- / 6.545	- / 177.197
P-3a	6 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1,103.435
P-40	Total Gross/Weapon System Cost				- / 83.544	- / 91.236	- / 105.177	- / 129.379	- / 562.115	- / 3,817.994

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The overall goal of the modifications budgeted in Fiscal Year (FY) 2019 is to procure the common equipment required for the individual aircraft platforms.

The FY 2019 funding request was reduced by \$3.500 million to account for the availability of prior year execution balances.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes						Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	384.068	7.091	7.417	7.543	0.000	7.543	8.118	9.469	10.533	12.700	104.415	551.354
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	384.068	7.091	7.417	7.543	0.000	7.543	8.118	9.469	10.533	12.700	104.415	551.354
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	384.068	7.091	7.417	7.543	0.000	7.543	8.118	9.469	10.533	12.700	104.415	551.354
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Navigation Satellite Timing and Ranging (NAVSTAR) Global Positioning System (GPS) is designed to provide highly accurate position and time to users worldwide in all weather conditions. GPS will be integrated with communication, navigation, and weapon systems equipment (attitude heading reference systems, inertial navigation systems, mission computers, etc.). The program procures and modifies GPS equipment such as receivers, antennas, amplifiers, and protection technologies as required for naval aviation platforms. Navigation Warfare (NAVWAR) protection technologies protect a platform's GPS capability from GPS jamming and unintentional interference. Hardware configurations vary with each Type/Model/Series aircraft. The GPS Operational Requirement Document (ORD) 003-78 dated 22 January 1990 was based on an Air Force General Operating Requirement dated 28 January 1978. The Navy ORD for Enhanced GPS User Equipment for NAVWAR. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The NAVWAR full rate production approval was received in June 2002. Research, Development, Test and Evaluation, Navy is funded under program element #0604777N.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All Aircraft as directed by OPNAV			Modification Type: Common Avionics (Safety) (Added Capability)					Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Global Positioning System (GPS) (OSIP 71-88)													
A Kits													
Recurring													
1.1.1) NAVWAR Installation Kits - NonOrganic	128 / 14.798	24 / 2.352	24 / 2.400	24 / 2.424	- / -	24 / 2.424	24 / 2.448	24 / 2.467	24 / 2.496	24 / 2.520	178 / 18.512	474 / 50.417	
1.1.2) Anti-Jam Installation Kits - NonOrganic ⁽¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.058	18 / 0.529	18 / 0.541	36 / 1.106	196 / 6.273	272 / 8.507	
1.1.3) Archived ECPs - Organic	- / 4.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.875	
Subtotal: Recurring	- / 19.673	- / 2.352	- / 2.400	- / 2.424	- / -	- / 2.424	- / 2.506	- / 2.996	- / 3.037	- / 3.626	- / 24.785	- / 63.799	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 4.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.303	
Subtotal: Non-Recurring	- / 4.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.303	
B Kits													
Recurring													
2.1.1) GPS Installation Equipment - Organic	2,047 / 173.823	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,047 / 173.823	
2.1.2) NAVWAR Installation Equipment - Organic	642 / 34.852	24 / 2.352	24 / 2.400	24 / 2.424	- / -	24 / 2.424	24 / 2.448	24 / 2.467	24 / 2.496	24 / 2.520	178 / 18.512	988 / 70.471	
2.1.3) Anti-Jam Installation Equipment - Organic ⁽²⁾	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.086	18 / 0.794	18 / 0.812	36 / 1.659	196 / 9.409	272 / 12.760	
Subtotal: Recurring	- / 208.675	- / 2.352	- / 2.400	- / 2.424	- / -	- / 2.424	- / 2.534	- / 3.261	- / 3.308	- / 4.179	- / 27.921	- / 257.054	
Non-Recurring													
2.2.1) Installation Equipment N/R. - Organic	- / 23.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.933	
Subtotal: Non-Recurring	- / 23.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 23.933	
Subtotal: Global Positioning System (GPS) (OSIP 71-88)	2,817 / 256.584	48 / 4.704	48 / 4.800	48 / 4.848	- / -	48 / 4.848	56 / 5.040	84 / 6.257	84 / 6.345	120 / 7.805	748 / 52.706	4,053 / 349.089	
Subtotal: Procurement, All Modification Items	- / 256.584	- / 4.704	- / 4.800	- / 4.848	- / -	- / 4.848	- / 5.040	- / 6.257	- / 6.345	- / 7.805	- / 52.706	- / 349.089	
Support (All Modification Items)													
3.1) NAVWAR Kit ECO	- / 2.547	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.547	
3.2) Data	- / 8.332	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.332	
3.3) Training Equipment - GPS	114 / 7.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 7.803	
3.4) Training Equipment - NAVWAR	3 / 0.529	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.529	
3.5) Support Equipment	4 / 0.677	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.677	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All Aircraft as directed by OPNAV					Modification Type: Common Avionics (Safety) (Added Capability)					Related RDT&E PEs: 0604777N			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
3.6) ILS ⁽³⁾	- / 2.685	- / 0.200	- / 0.304	- / 0.305	- / -	- / 0.305	- / 0.336	- / 0.407	- / 0.431	- / 0.523	- / 11.556	- / 16.747	
3.7) Other Support ⁽⁴⁾	- / 99.634	- / 1.312	- / 1.689	- / 1.754	- / -	- / 1.754	- / 2.094	- / 2.124	- / 2.810	- / 3.419	- / 30.038	- / 144.874	
<i>Subtotal: Support</i>	<i>- / 122.207</i>	<i>- / 1.512</i>	<i>- / 1.993</i>	<i>- / 2.059</i>	<i>- / -</i>	<i>- / 2.059</i>	<i>- / 2.430</i>	<i>- / 2.531</i>	<i>- / 3.241</i>	<i>- / 3.942</i>	<i>- / 41.594</i>	<i>- / 181.509</i>	
Installation													
<i>Modification Item 1 of 1:</i> Global Positioning System (GPS) (OSIP 71-88)	- / 5.277	- / 0.875	- / 0.624	- / 0.636	- / 0.000	- / 0.636	- / 0.648	- / 0.681	- / 0.947	- / 0.953	- / 10.115	- / 20.756	
<i>Subtotal: Installation</i>	<i>- / 5.277</i>	<i>- / 0.875</i>	<i>- / 0.624</i>	<i>- / 0.636</i>	<i>- / -</i>	<i>- / 0.636</i>	<i>- / 0.648</i>	<i>- / 0.681</i>	<i>- / 0.947</i>	<i>- / 0.953</i>	<i>- / 10.115</i>	<i>- / 20.756</i>	
Total													
Total Cost (Procurement + Support + Installation)	384.068	7.091	7.417	7.543	0.000	7.543	8.118	9.469	10.533	12.700	104.415	551.354	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes			Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)						
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:							
Modification Item 1 of 1: Global Positioning System (GPS) (OSIP 71-88)													
Manufacturer Information													
Manufacturer Name: The Boeing Company - NAVWAR ⁽⁵⁾					Manufacturer Location: St. Louis, MO								
Administrative Leadtime (in Months): 6					Production Leadtime (in Months): 18								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	Aug 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	Apr 2023						
Delivery Dates	Feb 2019	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023	Oct 2024						
Manufacturer Name: Raytheon Systems Limited					Manufacturer Location: United Kingdom								
Administrative Leadtime (in Months): 3					Production Leadtime (in Months): 12								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates				Jan 2020	Jan 2021	Jan 2022	Jan 2023						
Delivery Dates				Dec 2020	Dec 2021	Dec 2022	Dec 2023						
Manufacturer Name: Not Specified.					Manufacturer Location: Not Specified..								
Administrative Leadtime (in Months): 0					Production Leadtime (in Months): 0								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Manufacturer Name: TBD					Manufacturer Location: TBD								
Administrative Leadtime (in Months): 0					Production Leadtime (in Months): 0								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Installation Information													
Method of Implementation: [none specified]:: Installation Name: NAVWAR Installation Kits													
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
	Prior Years	63 / 5.277	29 / 0.875	36 / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	128 / 6.776
	FY 2017	- / -	- / -	- / -	24 / 0.636	0 / 0.000	24 / 0.636	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.636
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.648	- / -	- / -	- / -	0 / 0.000	24 / 0.648	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: Global Positioning System (GPS) (OSIP 71-88)

Installation Information

Method of Implementation: [none specified]:: Installation Name: NAVWAR Installation Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.652	- / -	- / -	0 / 0.000	24 / 0.652
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.676	- / -	0 / 0.000	24 / 0.676
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.676	0 / 0.000	24 / 0.676
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.671	24 / 0.671
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.675	24 / 0.675
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	178 / 5.020	178 / 5.020
Total	63 / 5.277	29 / 0.875	36 / 0.624	24 / 0.636	0 / 0.000	24 / 0.636	24 / 0.648	24 / 0.652	24 / 0.676	24 / 0.676	226 / 6.366	474 / 16.430

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	63	10	10	9	-	-	12	12	12	-	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	226	474
Out	63	10	10	9	-	-	12	12	12	-	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	226	474

Method of Implementation: [none specified]:: Installation Name: Anti-Jam Installation Kits

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.029	- / -	- / -	0 / 0.000	4 / 0.029
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.271	- / -	0 / 0.000	18 / 0.271
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.277	0 / 0.000	18 / 0.277
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.582	36 / 0.582
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	196 / 3.167	196 / 3.167
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.029	18 / 0.271	18 / 0.277	232 / 3.749	272 / 4.326

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Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0577 / Common Avionics Changes										Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)											
ID Code (A=Service Ready, B=Not Service Ready) :														MDAP/MAIS Code:																	
Modification Item 1 of 1: Global Positioning System (GPS) (OSIP 71-88)																															
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Anti-Jam Installation Kits																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	4	4	5	5	4	4	5	5	232	272
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	4	4	5	5	4	4	5	5	232	272
Method of Implementation (Organic): GPS Installation Equipment																															
																						Installation Quantity: 2047									
Method of Implementation (Organic): NAVWAR Installation Equipment																															
																						Installation Quantity: 988									
Method of Implementation (Organic): Anti-Jam Installation Equipment																															
																						Installation Quantity: 272									
Footnotes: ⁽¹⁾ FY21-FY23: Installation Kits increased because the Global Positioning System (GPS) Naval Warfare (NAVWAR) budget increased to support the procurement of H-1 Anti-Jam Antennas. ⁽²⁾ FY21-FY23: Installation Equipment increased because the Global Positioning System (GPS) Naval Warfare (NAVWAR) budget increased to support the procurement of H-1 Anti-Jam Antennas. ⁽³⁾ FY20-FY22: Integrated Logistics Support increased because the Global Positioning System (GPS) Naval Warfare (NAVWAR) budget increased to support the procurement of H-1 Anti-Jam antennas. ⁽⁴⁾ FY20-FY22: Other Support increased because the Global Positioning System (GPS) Naval Warfare (NAVWAR) budget increased to support the procurement of H-1 Anti-Jam antennas. ⁽⁵⁾ NAVWAR: There is a delay in contract award in FY17 due to negotiations on a new contract.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 2 / Global Positioning System (GPS) Modernization (OSIP 02-22)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.402	21.808	297.685	320.895
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.402	21.808	297.685	320.895
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.402	21.808	297.685	320.895
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Global Positioning System (GPS) Modernization funds the Navy's integration of M-Code GPS receivers that are being developed by the Air Force Materiel Command's Joint Services System Management Office (JSSMO) Embedded GPS Inertial M-Code (EGI-M) and the Miniaturized Advanced GPS Receiver 2000 with M-Code (MAGR2K-M) programs into Naval Air platforms. Integration of these receivers addresses emerging threats to GPS by providing access to the new GPS M-Code signal. This effort supports Navy's compliance with Public Law 111-383, which requires that all GPS user equipment be capable of receiving the new GPS M-Code signal after FY 2017. Funding for receiver procurement starts in FY22 due to delivery lead time and supports the fielding of EGI-M and MAGR2K-M in to F/A-18E/F and EA-18G starting in FY23. Receivers will be procured through existing Joint Services System Management Office (JSSMO) contracts and integrated on Navy platforms through the platform Program of Record (POR). DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PEO C4I approved Project Definition Document (PDD) 9 November 2016, F/A-18E/F and EA-18G GPS Modernization Risk Reduction task award to Boeing December 2016, GPS Modernization Development and Integration contract award to F/A-18E/F and EA-18G prime vendor (Boeing) January 2018, Operational Evaluation planned for first and second quarter FY23. Research, Development, Test and Evaluation, Navy is funded under program element #0604777N.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 2 / Global Positioning System (GPS) Modernization (OSIP 02-22)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All Aircraft as directed by OPNAV					Modification Type: Common Avionics (Modernization)					Related RDT&E PEs: 0604777N			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Global Positioning System (GPS) Modernization (OSIP 02-22)</i>													
<i>B Kits</i>													
<i>Recurring</i>													
2.1.1) GPS Modernization Installation Equipment (MAGR2K-M/EGI-M) - NonOrganic ⁽⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.051	120 / 16.396	566 / 94.592	696 / 112.039	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.051</i>	<i>- / 16.396</i>	<i>- / 94.592</i>	<i>- / 112.039</i>	
<i>Subtotal: Global Positioning System (GPS) Modernization (OSIP 02-22)</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>10 / 1.051</i>	<i>120 / 16.396</i>	<i>566 / 94.592</i>	<i>696 / 112.039</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.051</i>	<i>- / 16.396</i>	<i>- / 94.592</i>	<i>- / 112.039</i>	
Installation													
<i>Modification Item 1 of 1: Global Positioning System (GPS) Modernization (OSIP 02-22)</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.060</i>	<i>- / 4.406</i>	<i>- / 4.466</i>	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.060</i>	<i>- / 4.406</i>	<i>- / 4.466</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.402	21.808	297.685	320.895	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0577 / Common Avionics Changes										Modification Number / Title: 2 / Global Positioning System (GPS) Modernization (OSIP 02-22)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Global Positioning System (GPS) Modernization (OSIP 02-22)																															
Manufacturer Information																															
Manufacturer Name: Various															Manufacturer Location: Various																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																						Jan 2022				Jan 2023					
Delivery Dates																						Dec 2022				Dec 2023					
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: GPS Modernization Installation Equipment (MAGR2K-M/EGI-M)																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		10 / 0.060		0 / 0.000		10 / 0.060					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		120 / 0.770		120 / 0.770					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		566 / 3.636		566 / 3.636					
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		10 / 0.060		686 / 4.406		696 / 4.466					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	686	696
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	686	696
Footnotes: ⁽⁶⁾ No A-Kit Procurement associated with the B-Kit Procurement. FY22: Installation Equipment Validation Verification Kits are First Production Installs and will remain on the aircraft. FY22-FY23: The Installation Equipment Recurring cost and quantity increase is due to scheduled Validation/Verification in FY22 and Full Rate Production in FY23.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	951.599	129.156	111.090	95.150	0.000	95.150	43.827	56.399	41.491	21.785	22.935	1,473.432
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	951.599	129.156	111.090	95.150	0.000	95.150	43.827	56.399	41.491	21.785	22.935	1,473.432
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	951.599	129.156	111.090	95.150	0.000	95.150	43.827	56.399	41.491	21.785	22.935	1,473.432
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) provides new and enhanced hardware and software solutions leveraging open architecture where cost effective, to comply with national and worldwide civil and military airspace requirements. Solutions include communication, navigation, surveillance and supporting technologies that facilitate air traffic management, and other civil and military operational capabilities. Impacts of non-compliance with airspace standards will include operational delays, circuitous rerouting, or access denial to controlled airspace.

Prioritization of platform type and quantity is based on missions and anticipated operations in affected airspace. Required functionalities include Mode Select (S), 8.33 kHz Channel Spacing, Required Navigation Performance Area Navigation (RNP RNAV), Reduced Vertical Separation Minimum (RVSM), Automatic Dependent Surveillance - Broadcast (Out) (ADS-B(O)), Mission Planning integration, Protected Instrument Landing System (P-ILS), cockpit aircraft data storage, processing and display capabilities.

FY17-FY23 cost per quantity variations are due to FY16 reduction that targeted funding in specific Budget Categories: A-Kit Non-Recurring Engineering, B-Kits, B-Kit Non-Recurring Engineering, and Other Support. The reduction resulted in delayed progress on multiple Type/Model/Series aircraft for the CNS/ATM capabilities throughout the Future Years Defense Plan. Additionally, cost per quantity variation is due to variations on multiple T/M/S platform aircraft, platform quantities, associated equipment per platform, and cost per equipment. Some A-Kits consist of a small number of wire bundles while other A-Kits consist of multiple wire bundles and structural components which increase unit cost. B-Kits vary by T/M/S and capability. Kit components within a platform will vary based on the number of configurations within that platform.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

AH-1Z/UH-1Y 8.33 kHz (FY14-FY17), Mode S (FY18-FY22)
 C-130T Mode S (FY12-FY18), RNP RNAV (FY13-FY19), ADS-B(O) (FY14-FY18), 8.33 kHz (FY12-FY18)
 C-2A ADS-B(O) (FY14-FY17)
 C-26 ADS-B(O) (FY14-FY17), 8.33 kHz (FY14-FY17), RNP RNAV (FY14-FY17)
 CH-53E ADS-B(O) (FY15-FY17), 8.33 kHz (FY16-FY18)
 E-2C ADS-B(O) (FY15-FY17)
 E-2D RNP RNAV (FY14-FY21), ADS-B(O) (FY15-FY18)
 E-6B ADS-B(O) (FY16-FY18), RNP RNAV (FY16-FY20), Mode S (FY16-FY18)

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
EA-18G, ADS-B(O) (FY15-FY19) F-5 F/N ADS-B(O) (FY16-FY20) F-16 A/B ADS-B(O) (FY16-FY19) F-35 B/C Mode S (FY15-FY18), RVSM (FY15-FY18), RNP RNAV (FY18-FY20), ADS-B(O) (FY18-FY20) F/A-18A+ RVSM (FY13-FY18) F/A-18A++ RVSM (FY13-FY18) F/A-18C/D RNP RNAV (FY10-FY18), RVSM (FY13-FY18), ADS-B(O) (FY15-FY19) F/A-18E/F ADS-B(O) (FY15-FY19) K/C-130J RNP RNAV (FY16-FY18), ADS-B(O) (FY16-FY18) KC-130T ADS-B(O) (FY16-FY18) MH-53E Mode S (FY15-FY20), ADS-B(O) (FY16-FY20) MH-60R/S 8.33 kHz (FY14-FY17), RNP RNAV (FY16-FY23), ADS-B(O) (FY14-FY19) MQ-4C ADS-B(O) (FY16-FY18), RVSM (FY16-FY18), 8.33 KHz (FY16-FY17), Mode S (FY16-FY18) MQ-8B-C ADS-B(O) (FY16-FY21), Mode S (FY16-FY21), 8.33 KHz (FY16-FY19) MQ-25-A 8.33 kHz (FY17-FY22), RNP RNAV (FY17-FY22), RVSM (FY17-FY22), Mode S (FY17-FY22), ADS-B(O) (FY17-FY22) MV-22B 8.33 kHz (FY14-FY18), Mode S (FY13-FY18), RNP RNAV (FY14-FY24), ADS-B(O) (FY15-FY18) NU-1B ADS-B(O) (FY16-FY17) OH-58C ADS-B(O) (FY18-FY19) P-3C/EP-3E ADS-B(O) (FY15-FY18) P-8A ADS-B(O) (FY16-FY18) T/AV-8B Mode S (FY17-FY21), RNP RNAV (FY13-FY19), ADS-B(O) (FY17-FY21) T-34C ADS-B(O) (FY17-FY20) T-38C ADS-B(O) (FY16-FY20), Mode S (FY16-FY20) T-45 RNP/RNAV (FY17-FY23) UH-72A ADS-B(O) (FY17-FY18) VH-3D ADS-B(O) (FY17-FY19), Mode S (FY17-FY19) VH-60N 8.33 kHz (FY14-FY19), Mode S (FY14-FY19), ADS-B(O) (FY16-FY19) VH-92A 8.33 kHz (FY16-FY17), RNP RNAV (FY16-FY17), Mode S (FY16-FY17), ADS-B(O) (FY16-FY17)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All A/C as directed by OPNAV			Modification Type: Common Avionics Modification					Related RDT&E PEs: 0605217N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)													
A Kits													
Recurring													
1.1.1) CNS/ATM Installation Kit (All other A/C excluding TPS platforms) - NonOrganic ⁽⁷⁾	297 / 26.109	61 / 0.171	65 / 4.550	76 / 3.554	- / -	76 / 3.554	12 / 0.761	- / -	- / -	- / -	- / -	511 / 35.145	
1.1.2) CNS/ATM Installation Kit (TPS) - NonOrganic	3 / 0.004	5 / 0.076	- / -	10 / 0.040	- / -	10 / 0.040	- / -	- / -	- / -	- / -	- / -	18 / 0.120	
Subtotal: Recurring	- / 26.113	- / 0.247	- / 4.550	- / 3.594	- / -	- / 3.594	- / 0.761	- / -	- / -	- / -	- / 0.000	- / 35.265	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 49.689	- / 7.637	- / 0.826	- / 0.638	- / -	- / 0.638	- / -	- / -	- / -	- / -	- / -	- / 58.790	
Subtotal: Non-Recurring	- / 49.689	- / 7.637	- / 0.826	- / 0.638	- / -	- / 0.638	- / -	- / -	- / -	- / -	- / 0.000	- / 58.790	
B Kits													
Recurring													
2.1.1) CNS/ATM Installation Equipment - Organic ⁽⁸⁾	1,711 / 146.573	49 / 1.338	146 / 22.694	66 / 8.058	- / -	66 / 8.058	10 / 0.260	- / -	523 / 27.730	- / -	493 / 13.932	2,998 / 220.585	
2.1.2) Archived ECPs - Organic	713 / 2.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	713 / 2.889	
Subtotal: Recurring	- / 149.462	- / 1.338	- / 22.694	- / 8.058	- / -	- / 8.058	- / 0.260	- / -	- / 27.730	- / -	- / 13.932	- / 223.474	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽⁹⁾	21 / 302.347	12 / 47.701	- / 31.933	- / 44.805	- / -	- / 44.805	- / 12.645	- / 19.368	- / -	- / -	- / -	33 / 458.799	
Subtotal: Non-Recurring	- / 302.347	- / 47.701	- / 31.933	- / 44.805	- / -	- / 44.805	- / 12.645	- / 19.368	- / -	- / -	- / 0.000	- / 458.799	
Subtotal: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)	2,745 / 527.611	127 / 56.923	211 / 60.003	152 / 57.095	- / -	152 / 57.095	22 / 13.666	- / 19.368	523 / 27.730	- / -	493 / 13.932	4,273 / 776.328	
Subtotal: Procurement, All Modification Items	- / 527.611	- / 56.923	- / 60.003	- / 57.095	- / -	- / 57.095	- / 13.666	- / 19.368	- / 27.730	- / -	- / 13.932	- / 776.328	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 5.902	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.902	
3.2) Data ⁽¹⁰⁾	- / 6.179	- / -	- / 0.946	- / 0.160	- / -	- / 0.160	- / 0.021	- / -	- / -	- / -	- / -	- / 7.306	
3.3) Training ⁽¹¹⁾	20 / 16.280	- / 1.941	- / 1.073	- / 3.017	- / -	- / 3.017	1 / 6.084	- / 3.305	- / -	- / -	- / -	21 / 31.700	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All A/C as directed by OPNAV					Modification Type: Common Avionics Modification				Related RDT&E PEs: 0605217N				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
3.4) Support Equipment ⁽¹²⁾	- / 6.666	- / 0.074	- / 0.088	- / 0.235	- / -	- / 0.235	- / 0.081	- / 0.083	- / 0.084	- / 0.086	- / 0.177	- / 7.574	
3.5) ILS ⁽¹³⁾	- / 20.532	- / 2.391	- / 0.769	- / 1.597	- / -	- / 1.597	- / 0.755	- / 0.460	- / 0.381	- / 0.202	- / 0.539	- / 27.626	
3.6) Other Support ⁽¹⁴⁾	- / 338.136	- / 67.471	- / 45.911	- / 29.814	- / -	- / 29.814	- / 20.058	- / 32.634	- / 13.296	- / 21.497	- / 8.287	- / 577.104	
<i>Subtotal: Support</i>	- / 393.695	- / 71.877	- / 48.787	- / 34.823	- / -	- / 34.823	- / 26.999	- / 36.482	- / 13.761	- / 21.785	- / 9.003	- / 657.212	
Installation													
<i>Modification Item 1 of 1:</i> Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)	- / 30.293	- / 0.356	- / 2.300	- / 3.232	- / 0.000	- / 3.232	- / 3.162	- / 0.549	- / 0.000	- / 0.000	- / 0.000	- / 39.892	
<i>Subtotal: Installation</i>	- / 30.293	- / 0.356	- / 2.300	- / 3.232	- / -	- / 3.232	- / 3.162	- / 0.549	- / -	- / -	- / 0.000	- / 39.892	
Total													
Total Cost (Procurement + Support + Installation)	951.599	129.156	111.090	95.150	0.000	95.150	43.827	56.399	41.491	21.785	22.935	1,473.432	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)												
Manufacturer Information												
Manufacturer Name: Various							Manufacturer Location: Various					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 2					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Dec 2016		Dec 2018									
Delivery Dates	Feb 2017		Feb 2019									
Manufacturer Name: Various							Manufacturer Location: Various					
Administrative Leadtime (in Months): 4							Production Leadtime (in Months): 11					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023					
Delivery Dates	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022	Dec 2023					
Installation Information												
Method of Implementation: All A/C except NU-1B, O-2A, OH-58A, U-6A, UH-72A,UV-18A:: Installation Name: CNS/ATM Installation Ki												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	282 / 30.240	15 / 0.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	297 / 30.516
FY 2017	- / -	- / -	61 / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	61 / 2.300
FY 2018	- / -	- / -	- / -	65 / 3.182	0 / 0.000	65 / 3.182	- / -	- / -	- / -	- / -	0 / 0.000	65 / 3.182
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	76 / 3.162	- / -	- / -	- / -	0 / 0.000	76 / 3.162
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.549	- / -	- / -	0 / 0.000	12 / 0.549
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	282 / 30.240	15 / 0.276	61 / 2.300	65 / 3.182	0 / 0.000	65 / 3.182	76 / 3.162	12 / 0.549	- / -	- / -	0 / 0.000	511 / 39.709

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Exhibit P-3a, Individual Modification: PB 2019 Navy																				Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0577 / Common Avionics Changes										Modification Number / Title: 3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)																															
Installation Information																															
Method of Implementation: All A/C except NU-1B, O-2A, OH-58A, U-6A, UH-72A,UV-18A:: Installation Name: CNS/ATM Installation Ki																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	282	3	4	4	4	15	15	15	16	17	16	16	16	19	19	19	19	3	3	3	3	-	-	-	-	-	-	-	-	-	511
Out	282	3	4	4	4	15	15	15	16	17	16	16	16	19	19	19	19	3	3	3	3	-	-	-	-	-	-	-	-	-	511
Method of Implementation: NU-1B, O-2A, OH-58A, U-6A, UH-72A,UV-18A:: Installation Name: CNS/ATM Installation Kit (TPS)																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years		3 / 0.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.053																		
FY 2017		- / -	5 / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.080																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	10 / 0.050	0 / 0.000	10 / 0.050	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.050																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		3 / 0.053	5 / 0.080	- / -	10 / 0.050	0 / 0.000	10 / 0.050	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.183																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	3	-	2	3	-	-	-	-	-	-	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
Out	3	-	2	3	-	-	-	-	-	-	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
Method of Implementation (Organic): CNS/ATM Installation Equipment																															
																				Installation Quantity: 2998											

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 3 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)		
Installation Information		
Method of Implementation (Organic): Archived ECPs		Installation Quantity: 713
Method of Implementation (Organic): Installation Equipment N/R - Not Installed		Installation Quantity: 33
Footnotes: (7) FY19-FY20: Installation Kit Recurring cost per quantity variation is due to variation in multiple Type/Model/Series (T/M/S) platform aircraft, platform quantities, associated equipment per platform, and cost per equipment. B-Kit quantities differ from A-Kits where B-Kits consist of a card or module that will be integrated without A-Kit requirement. Installation Kit/Installation Equipment quantities reflect number of units procured, installation quantity reflects number of aircraft. Certifications are based on a separate certification analysis to confirm system performance, and do not necessarily reflect integration. Production Lead Time is acceptable and does not impact induction of aircraft due to length of aircraft modification. (8) FY19-FY23: Installation Equipment Recurring cost per quantity variation is due to variation in multiple Type/Model/Series (T/M/S) platform aircraft, platform quantities, associated equipment per platform, and cost per equipment and the increase of B-Kits in FY22 is for the addition of MH-60 R/S Required Navigational Performance Area Navigation (RNP/RNAV) Software Licenses. (9) FY19-FY21: The Installation Equipment Non-Recurring growth is due to the addition of T-45 and the MH-60 and MV-22 platforms to achieve RNP RNAV. (10) FY18-FY20: Data effort is funded at the completion of integration efforts. (11) FY19-FY21: The Training growth is due to costs to upgrade the MV-22 and MH-60 trainers for RNP RNAV incorporation and Automatic Dependent Surveillance/Broadcast Out (ADS-B Out) compliance, respectively. ADS-B(Out) compliance mandated by January 1st, 2020 per Title 14 CFR Parts 91.225 and 91.227. (12) FY19: Support Equipment growth is due to the addition of F-5 platform to achieve compliance for ADS-B (Out) by January 1st, 2020, as mandated in Title 14 CFR Parts 91.225 and 91.227. (13) FY19-FY20 Integrated Logistics Support growth is due to the AV-8B, F-5, F/A-18 A-D, MH-53E, and MH-60R platforms to achieve compliance for ADS-B (Out) by January 1st, 2020, as mandated in Title 14 CFR Parts 91.225 and 91.227 and for AV-8B, MH-60R and MV-22 to achieve RNP RNAV. (14) FY21-FY23: Other Support Cost Category 3.6 increased in test support for MH-60 and MV-22 platforms to achieve RNP/RNAV certifications and ADS-B (Out) compliance verifications.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes						Modification Number / Title: 4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	21.545	8.591	5.000	5.000	0.000	5.000	5.100	5.202	5.301	5.407	130.535	191.681
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	21.545	8.591	5.000	5.000	0.000	5.000	5.100	5.202	5.301	5.407	130.535	191.681
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	21.545	8.591	5.000	5.000	0.000	5.000	5.100	5.202	5.301	5.407	130.535	191.681
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Avionics Component Improvement Program (AvCIP) provides resources to address critical readiness, reliability deficiencies, obsolescence, loss of sustainability, and top fleet repair cost drivers in naval avionics systems. In the year prior to execution, candidate projects from all Type/Model/Series are collected, reviewed, competed and selected based upon proposal solution maturity, ability to execute, mission criticality and urgency, degree of readiness, impact on Fleet maintenance or repair cost burden, return on investment, and Fleet advocacy. AvCIP was established under the OSD Business Initiative Council as a better business practice to address cost-wise readiness in support of Naval Aviation Enterprise efficiency objectives. AvCIP is funded with Aircraft Procurement, Navy (APN) account to cover Non-Recurring Engineering (NRE) for modifications, demonstrations, integration testing, lab assets, qualification testing, engineering and logistics documentation and support services. APN funds will insert modern technology to address poor performance or obsolescence (that threatens to down aircraft), and support project modification component procurements, as required. Follow-on procurements tails will be coordinated with Program Offices and their Operational, Safety and Improvement Programs (OSIPs), as required. Candidate projects are submitted via a rigorous template, reviewed by a panel of Avionics professionals, and selected based upon urgency, warfighting contributions, breadth of application and scope of Return On Investment. Analysis shows that funding applied under this program will enable sustainment and procurement cost avoidances exceeding a five to one margin by 2025. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: AvCIP project selection criteria include proposed solution maturity and executability in which the timeframe for target projects to start fielding the solutions is 12-18 months. Units may be transferred to Fleet platforms as operational assets. Future year specific development profiles/milestones will be dependent upon projects competed and selected. Procurements below are representative of initial project lab asset purchases for qualification and production validation.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes						Modification Number / Title: 4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: All Aircraft as directed by OPNAV				Modification Type: Common Avionics Modification				Related RDT&E PEs: 0605217N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)													
B Kits													
Recurring													
1.1.1) AvCIP Installation Equipment - NonOrganic ⁽¹⁵⁾	9 / 8.690	6 / 1.820	12 / 2.098	12 / 2.098	- / -	12 / 2.098	12 / 2.198	12 / 2.212	12 / 2.232	12 / 2.281	138 / 44.485	225 / 68.114	
<i>Subtotal: Recurring</i>	- / 8.690	- / 1.820	- / 2.098	- / 2.098	- / -	- / 2.098	- / 2.198	- / 2.212	- / 2.232	- / 2.281	- / 44.485	- / 68.114	
Non-Recurring													
1.2.1) B-Kit/Non-Recurring - Organic ⁽¹⁶⁾	- / 5.896	- / 4.090	- / 1.752	- / 1.752	- / -	- / 1.752	- / 1.752	- / 1.762	- / 1.770	- / 1.797	- / 62.616	- / 83.187	
<i>Subtotal: Non-Recurring</i>	- / 5.896	- / 4.090	- / 1.752	- / 1.752	- / -	- / 1.752	- / 1.752	- / 1.762	- / 1.770	- / 1.797	- / 62.616	- / 83.187	
<i>Subtotal: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)</i>	9 / 14.586	6 / 5.910	12 / 3.850	12 / 3.850	- / -	12 / 3.850	12 / 3.950	12 / 3.974	12 / 4.002	12 / 4.078	138 / 107.101	225 / 151.301	
<i>Subtotal: Procurement, All Modification Items</i>	- / 14.586	- / 5.910	- / 3.850	- / 3.850	- / -	- / 3.850	- / 3.950	- / 3.974	- / 4.002	- / 4.078	- / 107.101	- / 151.301	
Support (All Modification Items)													
2.3) ILS	- / 0.417	- / 0.177	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.106	- / 0.111	- / 0.116	- / 5.105	- / 6.332	
2.6) Other Support	- / 6.542	- / 2.504	- / 0.450	- / 0.450	- / -	- / 0.450	- / 0.450	- / 0.463	- / 0.483	- / 0.498	- / 12.588	- / 24.428	
<i>Subtotal: Support</i>	- / 6.959	- / 2.681	- / 0.550	- / 0.550	- / -	- / 0.550	- / 0.550	- / 0.569	- / 0.594	- / 0.614	- / 17.693	- / 30.760	
Installation													
Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)	- / 0.000	- / 0.000	- / 0.600	- / 0.600	- / 0.000	- / 0.600	- / 0.600	- / 0.659	- / 0.705	- / 0.715	- / 5.741	- / 9.620	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.600	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.659	- / 0.705	- / 0.715	- / 5.741	- / 9.620	
Total													
Total Cost (Procurement + Support + Installation)	21.545	8.591	5.000	5.000	0.000	5.000	5.100	5.202	5.301	5.407	130.535	191.681	

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Exhibit P-3a, Individual Modification: PB 2019 Navy												Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0577 / Common Avionics Changes												Modification Number / Title: 4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)											
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:																							
Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)																																			
Manufacturer Information																																			
Manufacturer Name: TBD												Manufacturer Location: TBD																							
Administrative Leadtime (in Months): 2												Production Leadtime (in Months): 15																							
Dates		FY 2017			FY 2018			FY 2019			FY 2020			FY 2021			FY 2022			FY 2023															
Contract Dates		Nov 2016			Nov 2017			Nov 2018			Nov 2019			Nov 2020			Nov 2021			Nov 2022															
Delivery Dates		Feb 2018			Feb 2019			Feb 2020			Feb 2021			Feb 2022			Feb 2023			Feb 2024															
Installation Information																																			
Method of Implementation: Equipment is provided to Platform PMA and installed as per airframe ECP/AFC:: Installation Name: AvC																																			
Installation Cost		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete	Total													
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)													
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		- / -												
FY 2017		- / -	- / -		6 / 0.600		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		6 / 0.600												
FY 2018		- / -	- / -		- / -		12 / 0.600		0 / 0.000		12 / 0.600		- / -		- / -		- / -		- / -		0 / 0.000		12 / 0.600												
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		12 / 0.600		- / -		- / -		- / -		0 / 0.000		12 / 0.600												
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		12 / 0.659		- / -		- / -		0 / 0.000		12 / 0.659												
FY 2021		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		12 / 0.705		- / -		0 / 0.000		12 / 0.705												
FY 2022		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		12 / 0.715		0 / 0.000		12 / 0.715												
FY 2023		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		12 / 0.722		12 / 0.722												
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		138 / 5.019		138 / 5.019												
Total		- / -	- / -		6 / 0.600		12 / 0.600		0 / 0.000		12 / 0.600		12 / 0.600		12 / 0.659		12 / 0.705		12 / 0.715		150 / 5.741		216 / 9.620												
Installation Schedule																																			
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	2	2	2	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	150	216				
Out	-	-	-	-	-	-	2	2	2	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	150	216				
Footnotes: ⁽¹⁵⁾ No A-Kit Procurement associated with the B-Kit Procurement. Prior Year B-Kit Procurement, quantity of (9), no installs required. B-Kits and Installs are estimated based on engineering projections. Actual components to be determined during project selection in the year prior to execution, as outlined in project description/justification on P-3a. Install costs variations are due to variations in kit procurements for multiple aircraft, platform quantities, and associated equipment per platform.																																			

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
⁽¹⁶⁾ B-Kit/equipment modification funding is as follows: All T/M/S modifications and Common Avionics Systems.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 5 / Secure Communications (OSIP 10-19)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	9.858	0.000	9.858	26.499	20.166	46.450	67.679	6.545	177.197
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	9.858	0.000	9.858	26.499	20.166	46.450	67.679	6.545	177.197
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	9.858	0.000	9.858	26.499	20.166	46.450	67.679	6.545	177.197
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Secure Communication Avionics Modernization Program provides secure Ultra High Frequency (UHF)/Very High Frequency (VHF) Amplitude Modulation/Frequency Modulation (AM/FM) Anti-Jam radio systems for Line of Sight (LOS) and Beyond Line of Sight (BLOS) Satellite Communication (SATCOM) voice and data communications including modernized cryptographic capabilities and anti-jam waveforms. The program provides for continued secure communications beyond current National Security Agency (NSA) mandated cryptographic (CRYTPO) Cease Key Dates and overcomes analog HAVEQUICK vulnerabilities with required robust digital encryption/frequency hopping capability. Enables secure LOS and BLOS communications with increased access, significantly increased global coverage, higher bandwidth and Internet Protocol (IP) connectivity. Secure Communications mitigates eventual BLOS and Anti-Jam waveform obsolescence with the additions of the Mobile Users Objective System (MUOS) and Second Generation Anti-Jam Tactical UHF Radio for North Atlantic Treaty Organization (NATO) (SATURN) waveforms.

NOTE: Secure Communications is NOT a new start in FY19. All of these efforts were previously managed under individual platform budgets, but will now be centrally managed and funded under this OSIP through the Common Avionics Program Office (PMA 209).

Development Status/Major Development Milestones: Full Rate Production approved on 16 May 2011. FY19: Installation Equipment procurement of 5 kits are Validation Verification Kits and are First Production installs and will remain on the aircraft. FY19-FY20: The Installation Equipment Non-Recurring in FY19 is the integration for the procurement buys in FY20 for various T/M/S aircraft, in FY20 the integration is for the procurement buys in FY21 for various T/M/S aircraft. FY21-FY23: Installation Equipment Non-Recurring is ongoing to implement the S/W modifications to mission computers for various T/M/S aircraft to incorporate Anti-Jam Waveforms and Crypto Modernization.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 5 / Secure Communications (OSIP 10-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All platforms as directed by OPNAV.					Modification Type: Common Avionics (Modernization)					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Secure Communications (OSIP 10-19)													
A Kits													
Recurring													
1.1.1) Secure Communications Installation Kits - NonOrganic ⁽¹⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	238 / 19.326	- / -	238 / 19.326	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.326	- / 0.000	- / 19.326	
B Kits													
Recurring													
2.1.1) Secure Communications Installation Equipment - Organic ⁽¹⁸⁾	- / -	- / -	- / -	5 / 1.002	- / -	5 / 1.002	128 / 16.040	145 / 19.047	347 / 45.444	365 / 46.116	- / -	990 / 127.649	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 1.002	- / -	- / 1.002	- / 16.040	- / 19.047	- / 45.444	- / 46.116	- / 0.000	- / 127.649	
Non-Recurring													
2.2.1) Installation Equipment Non-Recurring - Organic ⁽¹⁹⁾	- / -	- / -	- / -	- / 7.808	- / -	- / 7.808	- / 9.482	- / 0.113	- / 0.011	- / -	- / -	- / 17.414	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 7.808	- / -	- / 7.808	- / 9.482	- / 0.113	- / 0.011	- / -	- / 0.000	- / 17.414	
Subtotal: Secure Communications (OSIP 10-19)	- / -	- / -	- / -	5 / 8.810	- / -	5 / 8.810	128 / 25.522	145 / 19.160	347 / 45.455	603 / 65.442	- / -	1,228 / 164.389	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 8.810	- / -	- / 8.810	- / 25.522	- / 19.160	- / 45.455	- / 65.442	- / 0.000	- / 164.389	
Support (All Modification Items)													
3.6) Other Support ⁽²⁰⁾	- / -	- / -	- / -	- / 1.048	- / -	- / 1.048	- / 0.771	- / 0.794	- / 0.776	- / 1.787	- / -	- / 5.176	
Subtotal: Support	- / 0.000	- / -	- / -	- / 1.048	- / -	- / 1.048	- / 0.771	- / 0.794	- / 0.776	- / 1.787	- / 0.000	- / 5.176	
Installation													
Modification Item 1 of 1: Secure Communications (OSIP 10-19)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 6.545	- / 6.545	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.545	- / 6.545	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	9.858	0.000	9.858	26.499	20.166	46.450	67.679	6.545	177.197	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0577 / Common Avionics Changes										Modification Number / Title: 5 / Secure Communications (OSIP 10-19)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Secure Communications (OSIP 10-19)																															
Manufacturer Information																															
Manufacturer Name: Various															Manufacturer Location: Various																
Administrative Leadtime <i>(in Months)</i> : 3															Production Leadtime <i>(in Months)</i> : 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																						Jan 2023									
Delivery Dates																						Dec 2023									
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Secure Communications Installation Kits																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		238 / 6.545		238 / 6.545					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		238 / 6.545		238 / 6.545					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238	238
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238	238
Method of Implementation (Organic): Secure Communications Installation Equipment - Not Installed																															
																				Installation Quantity: 990											
Footnotes:																															
⁽¹⁷⁾ FY23: Increased the A-Kit Procurement and Installs are for CMV-22/MV-22. All other aircraft, no A-Kit Procurement or Installs associated with B-Kit Procurement.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 5 / Secure Communications (OSIP 10-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
⁽¹⁸⁾ FY19-FY23: No A-Kit Procurement or Installs associated with B-Kit Procurement except in FY23, the A-Kit Procurement and Installs are for CMV-22/MV-22. Installation Equipment procurement in FY19 of 5 kits are Validation Verification Kits and are First Production installs and will remain on the aircraft. ⁽¹⁹⁾ FY19-FY20: The Installation Equipment Non-Recurring in FY19 is the integration for the procurement buys in FY20 for various T/M/S aircraft, in FY20 the integration is for the procurement buys in FY21 for various T/M/S aircraft. FY21-FY23: Installation Equipment Non-Recurring is ongoing to implement the S/W modifications to mission computers for various T/M/S aircraft to incorporate Anti-Jam Waveforms and Crypto Modernization. ⁽²⁰⁾ FY19: Other Support costs are associated with Initial Engineering for B-Kit Procurement integration. FY23: The Other Support cost growth is associated with the procurement of A-Kits for the CMV-22/MV-22 aircraft.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes						Modification Number / Title: 6 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,103.435	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,103.435
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,103.435	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,103.435
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,103.435	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,103.435
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0577 / Common Avionics Changes			Modification Number / Title: 6 / Inactive OSIPs	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	77.539	4.403	2.317	1.994	3.206	5.200	2.104	2.147	2.189	2.234	-	98.133
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	77.539	4.403	2.317	1.994	3.206	5.200	2.104	2.147	2.189	2.234	-	98.133
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	77.539	4.403	2.317	1.994	3.206	5.200	2.104	2.147	2.189	2.234	-	98.133
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Common Defensive Weapon System (CDWS) consists of a GAU-21 .50 caliber Machine Gun, cradle, ammo box, feed/link chutes and a platform specific mount system. For the MV-22 CDWS, which is in production, Ramp Mount Weapon Systems (RMWS) will be procured. CDWS was procured to replace obsolete GAU-16 and XM-218 .50 caliber Machine Guns. CDWS enhances the warfighters overall capability by providing a safer, more reliable and accurate weapon system with a higher rate of fire.

Funding also supports the modification of medium caliber gun systems used on Navy/Marine Aircraft as well as modifications to crew served weapons including the 7.62mm and .50 cal machine guns currently used on Navy/Marine Helicopters. The modifications to Crew Serve Weapon Systems will increase safety and reliability.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy				Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft				P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System	
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A		Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: N/A					

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06) (MISSION/MISSION ENHANCEMENT)				- / 67.903	- / 4.403	- / 2.317	- / 1.994	- / 3.206	- / 5.200
P-3a	2 / INACTIVE OSIP/DAWDF Realignment (TBD)				- / 9.636	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 77.539	- / 4.403	- / 2.317	- / 1.994	- / 3.206	- / 5.200

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06) (MISSION/MISSION ENHANCEMENT)				- / 2.104	- / 2.147	- / 2.189	- / 2.234	- / 0.000	- / 88.497
P-3a	2 / INACTIVE OSIP/DAWDF Realignment (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 9.636
P-40	Total Gross/Weapon System Cost				- / 2.104	- / 2.147	- / 2.189	- / 2.234	- / -	- / 98.133

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2019 funding will procure 22 modified RMWS for the MV-22 aircraft and associated support.

OCO:

FY2019 Overseas Contingency Operations funding to replace 93 GAU-21 machine guns is necessary to reset the force and replace weapons whose service life was expended in direct support of combat operations.

FY2019 Overseas Contingency Operations funding to replace 110 M240 machine guns is necessary to reset the force and replace weapons whose service life was expended in direct support of combat operations.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System					Modification Number / Title: 1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	67.903	4.403	2.317	1.994	3.206	5.200	2.104	2.147	2.189	2.234	0.000	88.497
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	67.903	4.403	2.317	1.994	3.206	5.200	2.104	2.147	2.189	2.234	0.000	88.497
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	67.903	4.403	2.317	1.994	3.206	5.200	2.104	2.147	2.189	2.234	0.000	88.497
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: DESCRIPTION/JUSTIFICATION: The Common Defensive Weapon System (CDWS) consists of a GAU-21 .50 caliber Machine Gun, cradle, ammo box, feed/link chutes and a platform specific mount system. For the MV-22 CDWS, which is production, Ramp Mount Weapon Systems (RMWS) will be procured. CDWS was procured to replace obsolete GAU-16 and XM-218 .50 caliber Machine Guns. CDWS enhances the warfighters overall capability by providing a safer, more reliable and accurate weapon system with a higher rate of fire.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System					Modification Number / Title: 1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53D/E, UH-1Y, MV-22				Modification Type: MISSION/MISSION ENHANCEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)													
A Kits													
Recurring													
1.1.1) MV-22 - Organic ⁽¹⁾	179 / 10.487	55 / 3.993	26 / 1.899	22 / 1.569	- / -	22 / 1.569	22 / 1.669	22 / 1.704	22 / 1.737	10 / 1.773	- / -	358 / 24.831	
1.1.2) GAU-21 - Organic	- / -	- / -	- / -	- / 0.000	93 / 2.309	93 / 2.309	- / -	- / -	- / -	- / -	- / -	93 / 2.309	
1.1.3) M240 - Organic	- / -	- / -	- / -	- / 0.000	110 / 0.897	110 / 0.897	- / -	- / -	- / -	- / -	- / -	110 / 0.897	
1.1.4) Archived Mods - Organic	752 / 43.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	752 / 43.200	
<i>Subtotal: Recurring</i>	- / 53.687	- / 3.993	- / 1.899	- / 1.569	- / 3.206	- / 4.775	- / 1.669	- / 1.704	- / 1.737	- / 1.773	- / 0.000	- / 71.237	
B Kits													
Recurring													
2.1.1) Archived B Kits - Organic	415 / 6.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 6.659	
<i>Subtotal: Recurring</i>	- / 6.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.659	
<i>Subtotal: COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)</i>	1,346 / 60.346	55 / 3.993	26 / 1.899	22 / 1.569	203 / 3.206	225 / 4.775	22 / 1.669	22 / 1.704	22 / 1.737	10 / 1.773	- / -	1,728 / 77.896	
<i>Subtotal: Procurement, All Modification Items</i>	- / 60.346	- / 3.993	- / 1.899	- / 1.569	- / 3.206	- / 4.775	- / 1.669	- / 1.704	- / 1.737	- / 1.773	- / 0.000	- / 77.896	
Support (All Modification Items)													
3.1) Data	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	
3.2) Support Equipment	- / 1.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.700	
3.3) ILS	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	
3.4) Other Support	- / 3.457	- / 0.410	- / 0.418	- / 0.425	- / -	- / 0.425	- / 0.435	- / 0.443	- / 0.452	- / 0.461	- / -	- / 6.501	
<i>Subtotal: Support</i>	- / 7.557	- / 0.410	- / 0.418	- / 0.425	- / -	- / 0.425	- / 0.435	- / 0.443	- / 0.452	- / 0.461	- / 0.000	- / 10.601	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	67.903	4.403	2.317	1.994	3.206	5.200	2.104	2.147	2.189	2.234	0.000	88.497	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System	Modification Number / Title: 1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)		
Footnotes: ⁽¹⁾ Unit cost projections for MV-22 can fluctuate based on other DoD and FMS customers procurement requirements. The total contracted quantity may result in a slightly lower or higher projected unit cost for MV-22 CDWS hardware.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System					Modification Number / Title: 2 / INACTIVE OSIP/DAWDF Realignment		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.636	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.636
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.636	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.636
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.636	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.636
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inactive OSIPs prior year totals.												

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LI 0581 - Common Defensive Weapon System
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System	Modification Number / Title: 2 / INACTIVE OSIP/DAWDF Realignment
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: INACTIVE OSIP/DAWDF Realignment		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0582 / ID Sys					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	270.655	42.262	49.524	40.696	0.000	40.696	41.494	35.895	13.554	9.848	0.042	503.970
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	270.655	42.262	49.524	40.696	0.000	40.696	41.494	35.895	13.554	9.848	0.042	503.970
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	270.655	42.262	49.524	40.696	0.000	40.696	41.494	35.895	13.554	9.848	0.042	503.970
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
 Description: MARK (MK) XIIA Mode 5 provides improved secure cooperative combat identification via the Identification Friend or Foe (IFF) system. Mode 5 compatibility is part of the Combat Identification Family of Systems strategy employed by US and North Atlantic Treaty Organization/Allied forces and will improve situational awareness, reduce fratricide, reduce enemy disruption of IFF functions and ensure the safe return of friendly aircraft. The DoD implementation is governed by AIMS 03-1000A, AIMS 03-1000B and USN requirements defined in ORD # 577-06-01 and is designed to be compatible with civilian IFF modes to ensure interoperability of military and civilian aircraft. Mode 5 is a product improvement which is designed to be installed through engineering changes to digital MARK XII IFF Systems (interrogators and transponders) and their associated cryptographic material on all type/model/series aircraft by 2020.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0582 / ID Sys				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Mark XIIA Mode 5 IFF (OSIP 15-03) (Capability Improvement)				- / 270.655	- / 42.262	- / 49.524	- / 40.696	- / 0.000	- / 40.696
P-40	Total Gross/Weapon System Cost				- / 270.655	- / 42.262	- / 49.524	- / 40.696	- / 0.000	- / 40.696
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Mark XIIA Mode 5 IFF (OSIP 15-03) (Capability Improvement)				- / 41.494	- / 35.895	- / 13.554	- / 9.848	- / 0.042	- / 503.970
P-40	Total Gross/Weapon System Cost				- / 41.494	- / 35.895	- / 13.554	- / 9.848	- / 0.042	- / 503.970
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

Joint Requirements Oversight Council Memorandums (047-07, 122-08 and 108-13) endorsed an Identification Friend or Foe (IFF) Mode 5 Joint Full Operational Capability in 2020. Navy Initial Operational Capability was achieved in FY12. NSA declared IFF Mode 4 will not be supported after 2020. Mode 5 provides added security and more data transmissions than Mode 4. Additionally, Mode 5 uses a spread spectrum waveform, which reduces susceptibility to interference.

The FY 2019 funding request was reduced by \$0.663M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0582 / ID Sys				Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	270.655	42.262	49.524	40.696	0.000	40.696	41.494	35.895	13.554	9.848	0.042	503.970
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	270.655	42.262	49.524	40.696	0.000	40.696	41.494	35.895	13.554	9.848	0.042	503.970
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	270.655	42.262	49.524	40.696	0.000	40.696	41.494	35.895	13.554	9.848	0.042	503.970
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: MK XIIA Mode 5 provides improved secure cooperative combat identification via Identification Friend or Foe (IFF). Mode 5 compatibility is part of the Combat Identification Family of Systems strategy employed by US and North Atlantic Treaty Organization (NATO)/Allied forces and will improve situational awareness, reduce fratricide, reduce enemy disruption of IFF functions and ensure the safe return of friendly aircraft. The DoD implementation is governed by AIMS 03-1000A, AIMS 03-1000B and USN requirements defined in ORD # 577-06-01 and is designed to be compatible with civilian IFF modes to ensure interoperability of military and civilian aircraft. Mode 5 upgrades existing Mode 4 IFF equipment, including cryptography, support equipment, and associated hardware and software changes. Mode 5 is designed to be installed through engineering changes to digital MARK XII interrogators and transponders and their associated cryptographic material including, but not limited to the AN/APX-118/123/123A, AN/APX-111, and AN/APX-119. Joint Requirements Oversight Council Memorandums (047-07, 122-08 and 108-13) endorsed a Joint Full Operational Capability (JFOC) in 2020. Navy IOC was achieved in FY12. Mode 5 will be installed in Navy/Marine Corp/Coast Guard Type/Model/Series aircraft which are currently Mode 4 IFF capable with retrofit phasing to support JFOC.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Mode 5 completed a brassboard development in December 1997. Modeling and simulation to demonstrate interoperability was completed in February 1998 to support NATO Standardization Agreement (STANAG) development. Proof of concept flight testing completed in December 1999. Milestone B was completed in March 2003. Milestone C and Low Rate Initial Production was approved in July 2006. Full Rate Production (FRP) was approved July 2012. FRP procurements and Mode 5 Engineering Change Proposals on Navy/Marine Corp aircraft continue as the program continues towards JFOC in 2020.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0582 / ID Sys				Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Various (49 Separate T/ M/S)				Modification Type: Capability Improvement				Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)													
A Kits													
Recurring													
1.1.1) Mode 5 IFF - NonOrganic ⁽¹⁾	396 / 4.423	125 / 1.233	94 / 2.988	24 / 0.351	- / -	24 / 0.351	50 / 2.682	4 / 0.014	4 / 0.023	- / -	- / -	697 / 11.714	
Subtotal: Recurring	- / 4.423	- / 1.233	- / 2.988	- / 0.351	- / -	- / 0.351	- / 2.682	- / 0.014	- / 0.023	- / -	- / 0.000	- / 11.714	
B Kits													
Recurring													
2.1.1) Mode 5 IFF - NonOrganic ⁽²⁾	1,773 / 79.587	218 / 20.346	398 / 25.528	228 / 15.469	- / -	228 / 15.469	220 / 15.246	202 / 14.250	84 / 6.145	50 / 3.895	- / -	3,173 / 180.466	
Subtotal: Recurring	- / 79.587	- / 20.346	- / 25.528	- / 15.469	- / -	- / 15.469	- / 15.246	- / 14.250	- / 6.145	- / 3.895	- / 0.000	- / 180.466	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽³⁾	- / 86.273	- / 9.903	- / 5.657	- / 8.271	- / -	- / 8.271	- / 9.016	- / 9.074	- / 2.069	- / -	- / -	- / 130.263	
Subtotal: Non-Recurring	- / 86.273	- / 9.903	- / 5.657	- / 8.271	- / -	- / 8.271	- / 9.016	- / 9.074	- / 2.069	- / -	- / 0.000	- / 130.263	
Subtotal: Mark XIIA Mode 5 IFF (OSIP 15-03)	2,169 / 170.283	343 / 31.482	492 / 34.173	252 / 24.091	- / -	252 / 24.091	270 / 26.944	206 / 23.338	88 / 8.237	50 / 3.895	- / -	3,870 / 322.443	
Subtotal: Procurement, All Modification Items	- / 170.283	- / 31.482	- / 34.173	- / 24.091	- / -	- / 24.091	- / 26.944	- / 23.338	- / 8.237	- / 3.895	- / 0.000	- / 322.443	
Support (All Modification Items)													
3.1) Data ⁽⁴⁾	- / 2.193	- / 0.437	- / 0.624	- / 0.385	- / -	- / 0.385	- / 0.468	- / 0.405	- / 0.127	- / 0.087	- / -	- / 4.726	
3.2) Training Equipment ⁽⁵⁾	- / 4.831	- / 0.904	- / 0.401	- / 2.107	- / -	- / 2.107	- / 2.408	- / 0.116	- / 0.113	- / 0.045	- / -	- / 10.925	
3.3) Support Equipment	- / 17.627	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.627	
3.4) ILS ⁽⁶⁾	- / 10.096	- / 1.138	- / 2.397	- / 1.537	- / -	- / 1.537	- / 1.294	- / 1.905	- / 0.802	- / 0.470	- / -	- / 19.639	
3.5) Other Support ⁽⁷⁾	- / 59.847	- / 5.740	- / 9.225	- / 7.990	- / -	- / 7.990	- / 8.555	- / 8.043	- / 3.833	- / 5.197	- / -	- / 108.430	
Subtotal: Support	- / 94.594	- / 8.219	- / 12.647	- / 12.019	- / -	- / 12.019	- / 12.725	- / 10.469	- / 4.875	- / 5.799	- / 0.000	- / 161.347	
Installation													
Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)	- / 5.778	- / 2.561	- / 2.704	- / 4.586	- / 0.000	- / 4.586	- / 1.825	- / 2.088	- / 0.442	- / 0.154	- / 0.042	- / 20.180	
Subtotal: Installation	- / 5.778	- / 2.561	- / 2.704	- / 4.586	- / -	- / 4.586	- / 1.825	- / 2.088	- / 0.442	- / 0.154	- / 0.042	- / 20.180	
Total													
Total Cost (Procurement + Support + Installation)	270.655	42.262	49.524	40.696	0.000	40.696	41.494	35.895	13.554	9.848	0.042	503.970	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0582 / ID Sys										Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)																															
Manufacturer Information																															
Manufacturer Name: BAE															Manufacturer Location: Greenlawn, NY																
Administrative Leadtime <i>(in Months)</i> : 3															Production Leadtime <i>(in Months)</i> : 12																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Dec 2016				Dec 2017				Dec 2018				Dec 2019				Dec 2020				Dec 2021				Dec 2022					
Delivery Dates		Dec 2017				Dec 2018				Dec 2019				Dec 2020				Dec 2021				Dec 2022				Dec 2023					
Installation Information																															
Method of Implementation: Field Installs Kits and Vendor Depot ECP Install:: Installation Name: Mark XIIA Mode 5 IFF																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		1,846 / 5.778		323 / 2.561		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		2,169 / 8.339							
FY 2017		- / -		- / -		343 / 2.704		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		343 / 2.704							
FY 2018		- / -		- / -		- / -		492 / 4.586		0 / 0.000		492 / 4.586		- / -		- / -		- / -		- / -		0 / 0.000		492 / 4.586							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		252 / 1.825		- / -		- / -		- / -		0 / 0.000		252 / 1.825							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		270 / 2.088		- / -		- / -		0 / 0.000		270 / 2.088							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		206 / 0.442		- / -		0 / 0.000		206 / 0.442							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		88 / 0.154		0 / 0.000		88 / 0.154							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		50 / 0.042		50 / 0.042							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		1,846 / 5.778		323 / 2.561		343 / 2.704		492 / 4.586		0 / 0.000		492 / 4.586		252 / 1.825		270 / 2.088		206 / 0.442		88 / 0.154		50 / 0.042		3,870 / 20.180							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,846	87	87	86	63	86	86	86	85	124	124	122	122	63	63	63	63	68	68	67	67	51	51	54	50	23	23	21	21	50	3,870
Out	1,846	87	87	86	63	86	86	86	85	124	124	122	122	63	63	63	63	68	68	67	67	51	51	54	50	23	23	21	21	50	3,870
Footnotes: ⁽¹⁾ Total A-kit quantity increase due to requirement changes for the following platforms: C-12, C-20 and C-40. The A-Kit Recurring unit prices vary from platform-to-platform based on the complexity of the implementation required to achieve the Mode 5 capability. Mode 5 IFF A-Kits will be required for installation on the AV-8B, C-12, C-130T, C-20, C-37, C-40, CH-53E, E-6B, F/A-18A+/C/D, KC-130J, KC-130T, MH-53E, and UC-35 platforms, along with the "B" kits. A-Kit applicability and phasing changes (from year to year) are due to refinement in platform requirements and complexity of integration. Many other																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0582 / ID Sys	Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
platforms will only require "B" kits (e.g. Mode 5 upgrade of AN/APX-118 to AN/APX-123A is a form, fit replacement in the aircraft). Installation costs vary by platform based on the implementation required to achieve the Mode 5 capability. The increase in FY20 unit cost is due to AV-8B. The AV-8B kits are more expensive than other platforms due to the complexity of the A-kit for that particular A/C. (2) B-kit quantity decrease due to requirement changes for the following platforms: C-12, C-20, C-40, KC-130J, HC-130H, MH-65D. The B-Kit Recurring unit cost varies based on what equipment is procured in each year. Installation costs vary by platform based on the implementation required to achieve the Mode 5 capability. The B-Kit solution varies (box or modification kit) from platform-to-platform based on the implementation required to achieve the Mode 5 capability, resulting in an AN/APX-123/123A, AN/APX-111, or AN/APX-119 Mode 5 Kit unit cost more than three times the cost of the AN/APX-123A Mode 5 kit. That complexity also drives higher integration and installation costs. AN/APX-123/123A boxes/kits have been procured and will continue throughout the program. Procurement of the F/A-18 AN/APX-111 Receiver-Transmitter (R/T) Shop Replaceable Assembly (SRA), required to address Mode 5 transponder performance issues, is now included in the Mode 5 kit procurement. AN/APX-111 box/kit procurements started in FY13. AN/APX-119 box/kit procurements started in FY16. B-kit total quantity has decreased as platform requirements have changed. In addition to providing Mode 5, the systems will provide Mode S capability. PMA-213 works closely with PMA-209, who provides Mode S capability for platforms. To achieve full fielding of both the Mode 5 and Mode S capabilities, both PMA-213 and PMA-209 Budget Line Items (BLIs) integrate and install end items that are required to meet the full platform installation requirements. Prior Year Installs have been updated for actuals. (3) B-Kit Non-Recurring increas from FY18 to FY19 is due to integration of UC-35C/D platform beginning in FY19. B-Kit Non-Recurring estimates are based on the specific platform implementation, thus costs will vary year to year. (4) Data Costs are estimated based on platform requirements and phasing and increase as more platforms execute Mode 5 upgrades in a given year. (5) Training costs are estimated based on platform requirements, e.g. operational and/or maintenance, and phased according to the platform schedule. The increase from FY18 to FY19 and FY20 is due to the incorporation of operational and maintenance trainer upgrades of the AN/APX-119 in the AV-8B platform. (6) ILS Costs are estimated based on platform requirements and phasing and increase as more platforms execute Mode 5 upgrades in a given year. The increase in ILS from FY17 to FY18 is caused by the following platforms' requirements: AV-8B, E-6B, F/A-18A+/C/D, F/A-18E/F/G, KC-130J. (7) Other Support costs are estimated based on the platform requirements and phasing and increase as more platforms execute Mode 5 upgrades in a given year. The increase in Other Support from FY17 to FY18 is caused by the following platforms' requirements: AV-8B, E-6B, F/A-18E/F/G, KC-130J. The increase in Other Support from FY19 to FY20 is caused by the following platforms' requirements: AV-8B, C-20, C-37, F/A-18A+/C/D, and HC-130H. The increase from FY22 to FY23 is due to the support required for the F/A-18A+/C/D .		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0586 / P-8 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	70.373	17.946	18.665	71.251	0.000	71.251	127.479	230.685	273.973	337.256	1,894.800	3,042.428
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	70.373	17.946	18.665	71.251	0.000	71.251	127.479	230.685	273.973	337.256	1,894.800	3,042.428
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	70.373	17.946	18.665	71.251	0.000	71.251	127.479	230.685	273.973	337.256	1,894.800	3,042.428
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
The P-8A is a militarized commercial Boeing 737 derivative that provides Broad Area Maritime and Littoral Armed multi-mission support.

OSIP 026-12 provides funding for Correction of Deficiencies revealed during Test and Evaluation (T&E) and discovered during fleet operations that resulted in safety and reliability degradation, as well as Modernization requirements to sensors, avionics, and airframe components via engineering changes. Funding is provided for changes to TacMobile, Increment 2 (Spiral 1) Engineering Change Proposals (ECPs) 2 and 3, which include Multi-Active Coherent, High Altitude Anti-Submarine Warfare Weapon Capability (HAAWC), HAAWC Mid-Course guidance, and Net Enabled Weapon Link-16 message implementation, and mission systems modernization efforts which improve reliability, maintainability and suitability, and correct safety related issues. This OSIP corrects aircraft deficiencies resulting from readiness, obsolescence, safety and Diminishing Manufacturing Sources and Material Shortages (DMSMS), and provides for Pre-Planned Product Improvement (P3I) efforts to modernize aircraft systems performance, improve aircrew safety, and incorporate structural enhancements to enable the airframe to reach its designed/extended service life. In order to more clearly define program requirements, efforts in OSIP 026-12 will transition to the Mission Systems OSIP (006-18) and Aircraft Systems OSIP (001-19) by FY23.

OSIP 006-18 provides funding for P-8A Mission Systems Upgrades to ensure the aircraft continues to meet the Navy's Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASuW), and ISR Sea Control requirements by upgrading P-8A mission systems hardware, software, and firmware components. Funding is provided for P-8A Increment 3 (Spiral 2), which consists of a series of ECPs which upgrades P-8A systems, including Combat System architecture improvements, ASW and ASuW sensor improvements, communication capability upgrades, ASuW Net Enabled Weapon (NEW), Higher-Than-Secret (HTS) security capability, and training systems updates and supporting documentation. This OSIP funds Mission Systems improvements identified as fleet prioritized requirements or as a part of the Rapid Capability Insertion (RCI) process to address reliability improvements, obsolescence, periodic technology insertion, urgent operational needs, correction of deficiencies and flight safety issues, including funds to implement various cost effective changes to critical P-8A Weapon systems and corresponding changes to Tactical Operations Center (TOC) and Mobile Tactical Operation Center (MTOC).

OSIP 002-15 provides funding for Chief of Naval Operations Project K-0416 program, which provides a rapid response Anti-Submarine Warfare (ASW) intelligence collection, analysis, and reporting system.

OSIP 001-19 provides funding for P-8A Aircraft Systems Upgrades to enable modifications to the aircraft in order to improve aircrew safety, modernize airframe, engine, weapons and stores, and sonobouy launch system performance, and incorporate structural enhancements to resolve readiness, obsolescence, correction of test and Fleet identified deficiencies, and safety issues required for the airframe to reach its designed/extended service life. Funding is provided for airframe modifications to support changes in Size, Weight, Power, and Cooling (SWAP-C) requirements of aircraft and mission systems equipment or as part of the Rapid Capability Insertion (RCI) process, to incorporate Quick Reaction Capabilities (QRC) both on a temporary and permanent basis, and to incorporate aircraft and propulsion systems related service bulletins and technical directives.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0586 / P-8 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12) (Mission Capabilities)				- / 67.173	- / 15.946	- / 10.665	- / 4.193	- / 0.000	- / 4.193
P-3a	2 / CNO Project K-0416 (OSIP 002-15) (Operational Improvement)				- / 3.200	- / 2.000	- / 2.000	- / 2.000	- / 0.000	- / 2.000
P-3a	3 / P-8A Mission Systems RCI (OSIP 006-18) (TBD)				- / 0.000	- / 0.000	- / 6.000	- / 58.799	- / 0.000	- / 58.799
P-3a	4 / P-8A Aircraft Systems (OSIP 001-19) (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 6.259	- / 0.000	- / 6.259
P-40	Total Gross/Weapon System Cost				- / 70.373	- / 17.946	- / 18.665	- / 71.251	- / 0.000	- / 71.251
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12) (Mission Capabilities)				- / 3.661	- / 3.653	- / 1.364	- / 0.000	- / 0.000	- / 106.655
P-3a	2 / CNO Project K-0416 (OSIP 002-15) (Operational Improvement)				- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / 19.200
P-3a	3 / P-8A Mission Systems RCI (OSIP 006-18) (TBD)				- / 115.457	- / 218.477	- / 262.566	- / 327.000	- / 1,777.950	- / 2,766.249
P-3a	4 / P-8A Aircraft Systems (OSIP 001-19) (TBD)				- / 6.361	- / 6.555	- / 8.043	- / 8.256	- / 114.850	- / 150.324
P-40	Total Gross/Weapon System Cost				- / 127.479	- / 230.685	- / 273.973	- / 337.256	- / 1,894.800	- / 3,042.428
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

The P-8A is a militarized commercial Boeing 737 derivative that provides Broad Area Maritime and Littoral Armed multi-mission support.

The FY 2019 funding request was reduced by \$2.896 million to account for the availability of prior year execution balances.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	67.173	15.946	10.665	4.193	0.000	4.193	3.661	3.653	1.364	0.000	0.000	106.655
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	67.173	15.946	10.665	4.193	0.000	4.193	3.661	3.653	1.364	0.000	0.000	106.655
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	67.173	15.946	10.665	4.193	0.000	4.193	3.661	3.653	1.364	0.000	0.000	106.655
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The P-8A is a commercial Boeing 737 derivative that provides Broad Area Maritime and Littoral Armed multi-mission support. OSIP 026-12 provides funding for the resolution of Correction of Deficiencies revealed during post production Test and Evaluation (T&E) and discovered during fleet operations that resulted in safety and reliability degradation, as well as Modernization requirements to sensors, avionics, and airframe components via engineering changes. Funding is provided for changes to TacMobile, Increment 2 (Spiral 1) Engineering Change Proposals (ECPs) 2 and 3, which include Multi-Active Coherent, High Altitude Anti-Submarine Warfare Weapon Capability (HAAWC), HAAWC Mid-Course guidance, and Net Enabled Weapon Link-16 message implementation, and mission systems modernization efforts which improve reliability, maintainability and suitability, and correct safety related issues. This OSIP corrects aircraft deficiencies resulting from readiness, obsolescence, safety and Diminishing Manufacturing Sources and Material Shortages (DMSMS), and provides for Pre-Planned Product Improvement (P3I) efforts to modernize aircraft systems performance, improve aircrew safety, and incorporate structural enhancements to enable the airframe to reach its designed/extended service life. In order to more clearly define program requirements, efforts in OSIP 026-12 will transition to the Mission Systems OSIP (006-18) and Aircraft Systems OSIP (001-19) by FY23. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The P-8 Baseline program achieved Milestone (MS)-C in FY10. Note: Modernization and Safety consist of both various associated A & B kits and individual A & B kits, therefore the ratio of A to B Kits is not always consistent. Note: Increment 2 ECP 2 successfully installed on aircraft and trainers. Note: The Corrections of Deficiencies include the productionization of test aircraft that will be returned to the fleet. Note: To provide additional budget justification, starting in FY19 the modernization and safety, mission systems mod and airframe mod have been further defined into fuel systems AUX drain, STA 500F interference condition, double wall fuel tubes, SMPDM Transfer Valve, STA500E, CVFD Battery, CDRS Radiant Mercury, and Rev-A Tailcone Fastener Categories.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: P-8A MMA			Modification Type: Mission Capabilities					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)												
A Kits												
Recurring												
1.1.1) Modernization and Safety - NonOrganic	- / -	30 / 0.515	29 / 0.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 0.627
1.1.2) Increment 2 ECP 2 A Kit - NonOrganic	37 / 5.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 5.191
1.1.3) Increment 2 ECP 3 (Weapons Provision) - NonOrganic	19 / 0.400	19 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.800
1.1.4) Mission Systems MOD - Organic	- / -	45 / 0.900	8 / 0.163	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 1.063
1.1.5) Airframe MOD - NonOrganic	- / -	6 / 0.120	8 / 1.084	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.204
1.1.6) SSL/SRL - NonOrganic	- / -	5 / 1.240	4 / 0.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.042
1.1.7) Prior Year Archive - Organic	13 / 1.794	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.794
Subtotal: Recurring	- / 7.385	- / 3.175	- / 2.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 12.721
B Kits												
Recurring												
2.1.1) Modernization and Safety - Organic ⁽¹⁾	53 / 14.815	7 / 0.100	10 / 0.141	10 / 0.146	- / -	10 / 0.146	16 / 0.238	16 / 0.242	- / -	- / -	- / -	112 / 15.682
2.1.2) Mission Systems MOD - Organic	- / -	6 / 0.338	8 / 0.486	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.824
2.1.3) Acoustics Processor Tech Refresh/Insertion - Organic	6 / 2.754	36 / 3.600	10 / 1.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 7.372
2.1.4) Increment 2 ECP 2 B Kit - Organic	37 / 16.772	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 16.772
2.1.5) Airframe MOD - Organic	- / -	6 / 0.300	8 / 0.407	9 / 0.208	- / -	9 / 0.208	2 / 0.106	2 / 0.108	- / -	- / -	- / -	27 / 1.129
2.1.6) Aircraft Structural MOD - NonOrganic	- / -	- / -	- / -	10 / 0.014	- / -	10 / 0.014	14 / 0.015	10 / 0.013	- / -	- / -	- / -	34 / 0.042
2.1.7) Engine Coating - NonOrganic	- / -	3 / 0.075	9 / 0.229	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.304
2.1.8) Air Compressor Shroud - NonOrganic	- / -	2 / 0.074	9 / 0.333	1 / 0.037	- / -	1 / 0.037	- / -	- / -	- / -	- / -	- / -	12 / 0.444
2.1.9) SSL/SRL - Organic	- / -	5 / 0.550	4 / 0.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.998
2.1.10) Fuel System AUX Drain - NonOrganic	- / -	- / -	- / -	4 / 0.003	- / -	4 / 0.003	3 / 0.002	2 / 0.002	- / -	- / -	- / -	9 / 0.007
2.1.11) STA 500F Interference Condition - NonOrganic	- / -	- / -	- / -	6 / 0.057	- / -	6 / 0.057	1 / 0.010	- / -	- / -	- / -	- / -	7 / 0.067
2.1.12) Double Walled Fuel Tubes - NonOrganic	- / -	- / -	- / -	7 / 0.099	- / -	7 / 0.099	5 / 0.072	3 / 0.044	- / -	- / -	- / -	15 / 0.215
2.1.13) SMPDM Transfer Valve - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.006	12 / 0.012	- / -	- / -	- / -	18 / 0.018
2.1.14) STA 500E Retrofit - NonOrganic	- / -	- / -	- / -	6 / 0.024	- / -	6 / 0.024	8 / 0.033	7 / 0.030	- / -	- / -	- / -	21 / 0.087
2.1.16) CVFD Battery Upgrade - Organic	- / -	- / -	- / -	29 / 0.229	- / -	29 / 0.229	6 / 0.048	- / -	- / -	- / -	- / -	35 / 0.277
2.1.17) CDRS Radiant Mercury - Organic	- / -	- / -	- / -	20 / 1.020	- / -	20 / 1.020	20 / 1.040	34 / 1.802	- / -	- / -	- / -	74 / 3.862

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: P-8A MMA			Modification Type: Mission Capabilities					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.18) REV A Tailcone Fastener - NonOrganic	- / -	- / -	- / -	7 / 0.011	- / -	7 / 0.011	13 / 0.021	21 / 0.035	- / -	- / -	- / -	41 / 0.067
Subtotal: Recurring	- / 34.341	- / 5.037	- / 3.062	- / 1.848	- / -	- / 1.848	- / 1.591	- / 2.288	- / -	- / -	- / 0.000	- / 48.167
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic	- / 2.014	- / 1.325	- / 0.430	- / -	- / -	- / -	- / 0.510	- / -	- / -	- / -	- / -	- / 4.279
Subtotal: Non-Recurring	- / 2.014	- / 1.325	- / 0.430	- / -	- / -	- / -	- / 0.510	- / -	- / -	- / -	- / 0.000	- / 4.279
Subtotal: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)	165 / 43.740	170 / 9.537	107 / 5.653	109 / 1.848	- / -	109 / 1.848	94 / 2.101	107 / 2.288	- / -	- / -	- / -	752 / 65.167
Subtotal: Procurement, All Modification Items	- / 43.740	- / 9.537	- / 5.653	- / 1.848	- / -	- / 1.848	- / 2.101	- / 2.288	- / -	- / -	- / 0.000	- / 65.167
Support (All Modification Items)												
3.2) Data	- / 1.439	- / 0.116	- / 0.145	- / 0.127	- / -	- / 0.127	- / 0.075	- / 0.025	- / 0.018	- / -	- / -	- / 1.945
3.3) Training Equipment	9 / 3.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 3.989
3.4) Increment 2 ECP 2 Trainers ⁽²⁾	15 / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 6.000
3.6) ILS	- / 0.580	- / 0.169	- / 0.200	- / 0.175	- / -	- / 0.175	- / 0.075	- / 0.030	- / 0.025	- / -	- / -	- / 1.254
3.7) Other Support	- / 6.175	- / 0.520	- / 0.521	- / 0.464	- / -	- / 0.464	- / 0.214	- / 0.076	- / 0.050	- / -	- / -	- / 8.020
Subtotal: Support	- / 18.183	- / 0.805	- / 0.866	- / 0.766	- / -	- / 0.766	- / 0.364	- / 0.131	- / 0.093	- / -	- / 0.000	- / 21.208
Installation												
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)	- / 5.250	- / 5.604	- / 4.146	- / 1.579	- / 0.000	- / 1.579	- / 1.196	- / 1.234	- / 1.271	- / 0.000	- / 0.000	- / 20.280
Subtotal: Installation	- / 5.250	- / 5.604	- / 4.146	- / 1.579	- / -	- / 1.579	- / 1.196	- / 1.234	- / 1.271	- / -	- / 0.000	- / 20.280
Total												
Total Cost (Procurement + Support + Installation)	67.173	15.946	10.665	4.193	0.000	4.193	3.661	3.653	1.364	0.000	0.000	106.655

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0586 / P-8 Series			Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)							
Manufacturer Information							
Manufacturer Name: BOEING				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Feb 2018					
Delivery Dates			Oct 2018				
Manufacturer Name: Boeing - Increment 2 ECP 3 (Weapons Provision)				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Feb 2017						
Delivery Dates	Oct 2017						
Manufacturer Name: BOEING				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Feb 2019	Feb 2020	Feb 2021		
Delivery Dates			Oct 2019	Oct 2020	Oct 2021		
Manufacturer Name: TBD - Airframe Mod				Manufacturer Location: Not Specified..			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019			
Delivery Dates	May 2017	May 2018	May 2019	May 2020			
Manufacturer Name: Boeing - SSL/SRL				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018					
Delivery Dates	Mar 2017	Mar 2018					
Manufacturer Name: BOEING				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017					

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0586 / P-8 Series			Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates	May 2017	May 2018					
Manufacturer Name: BOEING				Manufacturer Location: Seattle, WA			
Administrative Leadtime (<i>in Months</i>): 7				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Apr 2020	Apr 2021		
Delivery Dates				Jan 2021	Jan 2022		
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Feb 2018					
Delivery Dates		Apr 2018					
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 5				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Feb 2018					
Delivery Dates			Oct 2018				
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 10				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Mar 2020			
Delivery Dates					Jul 2021		
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 3			

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0586 / P-8 Series			Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jan 2019	Jan 2020	Jan 2021		
Delivery Dates			Apr 2019	Apr 2020	Apr 2021		
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Feb 2019	Feb 2020	Feb 2021		
Delivery Dates			May 2019	May 2020	May 2021		
Manufacturer Name: Boeing				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Feb 2018					
Delivery Dates			Oct 2018				
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Feb 2018					
Delivery Dates			Oct 2018				
Manufacturer Name: BOEING				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Feb 2019	Feb 2020	Feb 2021		
Delivery Dates			Oct 2019	Oct 2020	Oct 2021		
Manufacturer Name: BOEING				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Feb 2019	Feb 2020	Feb 2021		
Delivery Dates			Oct 2019	Oct 2020	Oct 2021		
Manufacturer Name: BOEING				Manufacturer Location: Seattle, WA			

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0586 / P-8 Series			Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)							
Manufacturer Information							
Administrative Leadtime (<i>in Months</i>): 5				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Feb 2019	Feb 2020	Feb 2021		
Delivery Dates			Oct 2019	Oct 2020	Oct 2021		
Manufacturer Name: TBD-Aircraft Structural Mod				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 5				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Feb 2019	Feb 2020	Feb 2021		
Delivery Dates			Oct 2019	Oct 2020	Oct 2021		
Manufacturer Name: BOEING				Manufacturer Location: Seattle, WA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019			
Delivery Dates			Feb 2019	Feb 2020			
Manufacturer Name: Boeing - Increment 2 ECP 2 A Kit				Manufacturer Location: Seattle, WA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD - Modernization and Safety				Manufacturer Location: Not Specified..			
Administrative Leadtime (<i>in Months</i>): 5				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Feb 2017	Feb 2018					
Delivery Dates	Oct 2017	Oct 2018					
Manufacturer Name: CFM - Engine Coating				Manufacturer Location: Cincinnati, OH			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 1			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017					

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)													
Manufacturer Information													
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Delivery Dates	Jan 2017	Jan 2018											
Manufacturer Name: CFM - Air Compressor Shroud				Manufacturer Location: Cincinnati, OH									
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	Feb 2017	Feb 2018	Feb 2019										
Delivery Dates	Oct 2017	Oct 2018	Oct 2019										
Manufacturer Name: TBD				Manufacturer Location: TBD									
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Manufacturer Name: TBD				Manufacturer Location: TBD									
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates													
Delivery Dates													
Installation Information													
Method of Implementation: Contractor Field Mod Team:: Installation Name: Modernization and Safety													
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2017	- / -	- / -	30 / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.750	
FY 2018	- / -	- / -	- / -	29 / 0.725	0 / 0.000	29 / 0.725	- / -	- / -	- / -	- / -	0 / 0.000	29 / 0.725	
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Modernization and Safety

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	30 / 0.750	29 / 0.725	0 / 0.000	29 / 0.725	- / -	- / -	- / -	- / -	0 / 0.000	59 / 1.475

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	7	7	8	8	7	7	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59
Out	-	-	-	-	-	-	7	7	8	8	7	7	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59

Method of Implementation: Contractor Field Mod Team:: Installation Name: Increment 2 ECP 2

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	21 / 5.250	16 / 3.915	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	37 / 9.165
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	21 / 5.250	16 / 3.915	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	37 / 9.165

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Increment 2 ECP 2

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	21	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	
Out	9	6	6	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	

Method of Implementation: Contractor Field Mod Team:: Installation Name: Weapons Provision

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	19 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	19 / 1.200
FY 2017	- / -	- / -	19 / 1.583	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	19 / 1.583
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	19 / 1.200	19 / 1.583	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	38 / 2.783

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	5	5	5	4	5	5	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38		
Out	-	-	5	5	5	4	5	5	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Airframe MOD

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	6 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.300
FY 2018	- / -	- / -	8 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 1.200
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	6 / 0.300	8 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	14 / 1.500

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	3	3	-	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	-	-	-	-	3	3	-	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

Method of Implementation: Contractor Field Mod Team:: Installation Name: SSL / SRL

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	5 / 0.039	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.039
FY 2018	- / -	- / -	4 / 0.039	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.039
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series										Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)																
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: SSL / SRL																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
Total		- / -	5 / 0.039	4 / 0.039	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	9 / 0.078																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	1	2	2	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Out	-	-	-	1	2	2	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Method of Implementation: Contractor field mod team:: Installation Name: Aircraft Structural MOD																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.072	- / -	- / -	- / -	0 / 0.000	10 / 0.072																	
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.076	- / -	- / -	0 / 0.000	14 / 0.076																	
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.078	- / -	0 / 0.000	10 / 0.078																	
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.072	14 / 0.076	10 / 0.078	- / -	0 / 0.000	34 / 0.226																	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:									

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor field mod team:: Installation Name: Aircraft Structural MOD

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	3	2	4	4	4	2	3	2	3	2	-	-	-	-	-	34
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	3	2	4	4	4	2	3	2	3	2	-	-	-	-	-	34

Method of Implementation: Contractor Field Mod Team:: Installation Name: Engine Coating

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	3 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.150
FY 2018	- / -	- / -	9 / 0.374	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	9 / 0.374
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	3 / 0.150	9 / 0.374	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.524

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	1	1	1	-	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Out	-	-	-	1	1	1	-	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Air Compressor Shroud

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	2 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.200
FY 2018	- / -	- / -	- / -	9 / 0.750	0 / 0.000	9 / 0.750	- / -	- / -	- / -	- / -	0 / 0.000	9 / 0.750
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.085	- / -	- / -	- / -	0 / 0.000	1 / 0.085
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.200	9 / 0.750	0 / 0.000	9 / 0.750	1 / 0.085	- / -	- / -	- / -	0 / 0.000	12 / 1.035

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	-	1	-	2	3	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Out	-	-	-	-	-	-	1	-	1	-	2	3	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12

Method of Implementation: Contractor MOD Team:: Installation Name: Fuel System AUX Drain

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.436	- / -	- / -	- / -	0 / 0.000	4 / 0.436
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.333	- / -	- / -	0 / 0.000	3 / 0.333
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.227	- / -	0 / 0.000	2 / 0.227
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor MOD Team:: Installation Name: Fuel System AUX Drain

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.436	3 / 0.333	2 / 0.227	- / -	0 / 0.000	9 / 0.996

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-	-	9
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-	-	9

Method of Implementation: Contractor Field MOD:: Installation Name: STA 500F Interference Condition

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	6 / 0.104	0 / 0.000	6 / 0.104	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.104
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.018	- / -	- / -	- / -	0 / 0.000	1 / 0.018
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	6 / 0.104	0 / 0.000	6 / 0.104	1 / 0.018	- / -	- / -	- / -	0 / 0.000	7 / 0.122

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field MOD:: Installation Name: STA 500F Interference Condition

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	2	2	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Out	-	-	-	-	-	-	-	-	-	-	2	2	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7

Method of Implementation: Contractor Field MOD Team:: Installation Name: Double Walled Fuel Tubes

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.129	- / -	- / -	- / -	0 / 0.000	7 / 0.129
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.094	- / -	- / -	0 / 0.000	5 / 0.094
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.057	- / -	0 / 0.000	3 / 0.057
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.129	5 / 0.094	3 / 0.057	- / -	0 / 0.000	15 / 0.280

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	1	2	1	1	1	1	1	1	-	-	-	-	-	-	15
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	1	2	1	1	1	1	1	1	-	-	-	-	-	15

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy			Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series		Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field MOD Team:: Installation Name: SMPDM Transfer Valve

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.026	- / -	- / -	0 / 0.000	6 / 0.026
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.052	- / -	0 / 0.000	12 / 0.052
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.026	12 / 0.052	- / -	0 / 0.000	18 / 0.078

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	4	4	4	-	-	-	-	-	18	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	4	4	4	4	-	-	-	-	18

Method of Implementation: Contractor Field MOD Team:: Installation Name: STA 500E Retrofit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.297	- / -	- / -	- / -	0 / 0.000	6 / 0.297
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.404	- / -	- / -	0 / 0.000	8 / 0.404
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.361	- / -	0 / 0.000	7 / 0.361
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field MOD Team:: Installation Name: STA 500E Retrofit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.297	8 / 0.404	7 / 0.361	- / -	0 / 0.000	21 / 1.062

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	2	2	2	2	2	2	2	2	1	-	-	-	-	-	21
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	2	2	2	2	2	2	2	2	1	-	-	-	-	21

Method of Implementation: Contractor Field MOD Team:: Installation Name: REV A Tailcone Fastener

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.159	- / -	- / -	- / -	0 / 0.000	7 / 0.159
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.301	- / -	- / -	0 / 0.000	13 / 0.301
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.496	- / -	0 / 0.000	21 / 0.496
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.159	13 / 0.301	21 / 0.496	- / -	0 / 0.000	41 / 0.956

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Exhibit P-3a, Individual Modification: PB 2019 Navy																				Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0586 / P-8 Series										Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)																															
Installation Information																															
Method of Implementation: Contractor Field MOD Team:: Installation Name: REV A Tailcone Fastener																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	2	3	3	3	4	5	5	5	6	-	-	-	-	-	41
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	2	3	3	3	4	5	5	5	6	-	-	-	-	41
Method of Implementation (Organic): Mission Systems MOD																				Installation Quantity: 53											
Method of Implementation (Organic): Prior Year Archive																				Installation Quantity: 13											
Method of Implementation (Organic): Modernization and Safety																				Installation Quantity: 112											
Method of Implementation (Organic): Mission Systems MOD - Not Installed																				Installation Quantity: 14											
Method of Implementation (Organic): Acoustics Processor Tech Refresh/Insertion																				Installation Quantity: 52											
Method of Implementation (Organic): Increment 2 ECP 2 B Kit																				Installation Quantity: 37											
Method of Implementation (Organic): Airframe MOD - Not Installed																				Installation Quantity: 27											
Method of Implementation (Organic): SSL/SRL - Not Installed																				Installation Quantity: 9											
Method of Implementation (Organic): CVFD Battery Upgrade - Not Installed																				Installation Quantity: 35											
Method of Implementation (Organic): CDRS Radiant Mercury - Not Installed																				Installation Quantity: 74											
Footnotes:																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(1) The Modernization and Safety include the productionization test aircraft that will be returned to the fleet. Modernization and Safety consist of both various associated A & B kits and individual A & B kits, therefore the ratio of A to B Kits is not always consistent. (2) Increment 2 ECP 2 trainers are software modification only. No hardware installation required.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 2 / CNO Project K-0416 (OSIP 002-15)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3.200	2.000	2.000	2.000	0.000	2.000	2.000	2.000	2.000	2.000	2.000	19.200
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3.200	2.000	2.000	2.000	0.000	2.000	2.000	2.000	2.000	2.000	2.000	19.200
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3.200	2.000	2.000	2.000	0.000	2.000	2.000	2.000	2.000	2.000	2.000	19.200
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Chief of Naval Operations (CNO) Project K-0416 program provides a rapid response Anti-Submarine Warfare intelligence collection, analysis, and reporting system program focused on Operations Plan specific threat submarines, both conventional and nuclear.

The program accomplishes this by introducing advanced collection avionics that operate with special calibrated sensors to provide threat target data for tactical, Science and Technology (S&T), and weapon design uses. The Sound Pressure Level Collection Suite that is installed on the P-8 mission kits contain several Weapons Replaceable Assembly's, both fabricated & procured. The Suite includes a 8201 modulation meter, a panasonic toughbook, and a Beartrap Automated Noise and Digital Integrated Test set, and the acoustic intelligence collection suite(ACS).

CNO K-0416 will calibrate P-8 Platforms, forward sited laboratories, and select forward deployed sites with these collection avionics to provide tactical and S&T Intelligence. Prime performer is the Naval Air Warfare Center (NAWC), Patuxent River. NAWC performs system integration, material acquisition, fabrication, and installation of collection systems.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: The changes identified are minor and do not require approval for full production.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 2 / CNO Project K-0416 (OSIP 002-15)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: P-8A MMA				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> CNO Project K-0416 (OSIP 002-15)													
A Kits													
Recurring													
1.1.1) Airborne Anti-Submarine Warfare Intelligence Equipment - Organic	8 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	- / -	4 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	40 / 3.600	
<i>Subtotal: Recurring</i>	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / -	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / 3.600	
B Kits													
Recurring													
2.1.1) Active Target Strength C2 - Organic	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	- / -	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	9 / 1.800	
<i>Subtotal: Recurring</i>	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 1.800	
<i>Subtotal: CNO Project K-0416 (OSIP 002-15)</i>	9 / 0.600	5 / 0.600	5 / 0.600	5 / 0.600	- / -	5 / 0.600	5 / 0.600	5 / 0.600	5 / 0.600	5 / 0.600	5 / 0.600	49 / 5.400	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 5.400	
Support (All Modification Items)													
3.4) Support Equipment	- / 0.400	- / 0.200	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 2.000	
3.6) Organic Support	- / 1.000	- / 0.600	- / 0.600	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 5.800	
3.7) Interim Contractor Support	- / 1.200	- / 0.600	- / 0.600	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 6.000	
<i>Subtotal: Support</i>	- / 2.600	- / 1.400	- / 1.400	- / 1.400	- / -	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 13.800	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	3.200	2.000	2.000	2.000	0.000	2.000	2.000	2.000	2.000	2.000	2.000	19.200	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 2 / CNO Project K-0416 (OSIP 002-15)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: CNO Project K-0416 (OSIP 002-15)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	6.000	58.799	0.000	58.799	115.457	218.477	262.566	327.000	1,777.950	2,766.249
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	6.000	58.799	0.000	58.799	115.457	218.477	262.566	327.000	1,777.950	2,766.249
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	6.000	58.799	0.000	58.799	115.457	218.477	262.566	327.000	1,777.950	2,766.249
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The P-8A is a commercial Boeing 737 derivative that provides Broad Area Maritime and Littoral Armed multi-mission support.

OSIP 006-18 provides funding for P-8A Mission Systems Upgrades to ensure the aircraft continues to meet the Navy's Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASuW), and ISR Sea Control requirements by upgrading P-8A mission systems hardware, software, and firmware components. The most significant effort this OSIP provides funding for is P-8A Increment 3 (Spiral 2), which consists of a series of ECPs which upgrades P-8A systems, including Combat System architecture improvements, ASW and ASuW sensor improvements, communication capability upgrades, ASuW Net Enabled Weapon (NEW), Higher-Than-Secret (HTS) security capability, and training systems updates and supporting documentation. This OSIP also funds Mission Systems improvements identified as fleet prioritized requirements or as a part of the Rapid Capability Insertion (RCI) process to address reliability improvements, obsolescence, periodic technology insertion, urgent operational needs, correction of deficiencies and flight safety issues, including funds to implement various cost effective changes to critical P-8A Weapon systems and corresponding changes to Tactical Operations Center (TOC) and Mobile Tactical Operation Center (MTOC).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Increment 3 capabilities are being developed as a series of ECPs.

Note: This modification will be retrofitted to all delivered fleet P-8A aircraft.

Note: ECP 6 fielding in 3Q2023 includes 7 aircraft (1 squadron) modified, trained and ready to deploy.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: P-8A MMA				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)													
A Kits													
Recurring													
1.1.1) Increment 3 ECP 5 (Block 1) - NonOrganic		- / -	- / -	29 / 0.404	29 / 0.412	- / -	29 / 0.412	30 / 0.433	- / -	- / -	- / -	- / -	88 / 1.249
1.1.2) Increment 3 ECP 6 (Block 2) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	5 / 17.796	11 / 39.806	12 / 44.138	15 / 56.065	70 / 275.208	113 / 433.013
1.1.3) Other Mission Systems - 6th Workstation - NonOrganic		- / -	- / -	1 / 0.010	26 / 0.260	- / -	26 / 0.260	- / -	- / -	- / -	- / -	- / -	27 / 0.270
Subtotal: Recurring		- / 0.000	- / -	- / 0.414	- / 0.672	- / -	- / 0.672	- / 18.229	- / 39.806	- / 44.138	- / 56.065	- / 275.208	- / 434.532
B Kits													
Recurring													
2.1.1) Increment 3 ECP 5 (Block 1) - Organic		- / -	- / -	29 / 1.437	29 / 1.094	- / -	29 / 1.094	30 / 1.151	- / -	- / -	- / -	- / -	88 / 3.682
2.1.2) Increment 3 ECP 6 (Block 2) - Organic		- / -	- / -	- / -	- / -	- / -	- / -	5 / 53.393	11 / 119.427	12 / 132.426	15 / 168.210	70 / 821.573	113 / 1,295.029
2.1.3) Other Mission Systems - 6th Workstation - Organic		- / -	- / -	1 / 1.157	26 / 30.568	- / -	26 / 30.568	- / -	- / -	- / -	- / -	- / -	27 / 31.725
2.1.4) Other Mission Systems - Retrofit existing 2 workstations - NonOrganic ⁽³⁾		- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.797	22 / 6.256	24 / 6.937	30 / 8.811	140 / 43.035	226 / 67.836
2.1.5) Other Mission Systems - Acoustic Receiver - Organic ⁽⁴⁾		- / -	- / -	- / -	14 / 3.010	- / -	14 / 3.010	15 / 3.280	15 / 3.335	15 / 3.389	21 / 4.822	13 / 3.033	93 / 20.869
Subtotal: Recurring		- / 0.000	- / -	- / 2.594	- / 34.672	- / -	- / 34.672	- / 60.621	- / 129.018	- / 142.752	- / 181.843	- / 867.641	- / 1,419.141
Non-Recurring													
2.2.1) Installation Equipment NRE - Organic ⁽⁵⁾		- / -	- / -	- / 2.331	- / 8.816	- / -	- / 8.816	- / 10.971	- / 3.454	- / -	- / -	- / 24.955	- / 50.527
Subtotal: Non-Recurring		- / 0.000	- / -	- / 2.331	- / 8.816	- / -	- / 8.816	- / 10.971	- / 3.454	- / -	- / -	- / 24.955	- / 50.527
Subtotal: P-8A Mission Systems RCI (OSIP 006-18)		- / -	- / -	60 / 5.339	124 / 44.160	- / -	124 / 44.160	95 / 89.821	59 / 172.278	63 / 186.890	81 / 237.908	293 / 1,167.804	775 / 1,904.200
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / 5.339	- / 44.160	- / -	- / 44.160	- / 89.821	- / 172.278	- / 186.890	- / 237.908	- / 1,167.804	- / 1,904.200
Support (All Modification Items)													
3.2) Data		- / -	- / -	- / -	- / 0.858	- / -	- / 0.858	- / 0.950	- / 1.948	- / 2.093	- / 2.931	- / 17.200	- / 25.980
3.4) ILS ⁽⁶⁾		- / -	- / -	- / 0.180	- / 2.109	- / -	- / 2.109	- / 2.148	- / 2.389	- / 2.499	- / 4.350	- / 29.548	- / 43.223
3.5) Other Support ⁽⁷⁾		- / -	- / -	- / 0.481	- / 7.889	- / -	- / 7.889	- / 9.372	- / 16.736	- / 17.029	- / 22.591	- / 159.352	- / 233.450
Subtotal: Support		- / 0.000	- / -	- / 0.661	- / 10.856	- / -	- / 10.856	- / 12.470	- / 21.073	- / 21.621	- / 29.872	- / 206.100	- / 302.653
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series						Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: P-8A MMA				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)	- / 0.000	- / 0.000	- / 0.000	- / 3.783	- / 0.000	- / 3.783	- / 8.541	- / 15.721	- / 44.495	- / 44.648	- / 345.806	- / 462.994	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 3.783	- / -	- / 3.783	- / 8.541	- / 15.721	- / 44.495	- / 44.648	- / 345.806	- / 462.994	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	6.000	58.799	0.000	58.799	115.457	218.477	262.566	327.000	1,777.950	2,766.249	

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0586 / P-8 Series			Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)							
Manufacturer Information							
Manufacturer Name: TBD - Retrofit two (2) workstations				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 7				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Apr 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates				Oct 2021	Jul 2022	Jul 2023	Jul 2024
Manufacturer Name: TBD -Increment 3 ECP 6 (Block 2) ⁽⁸⁾				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 7				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Apr 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates				Oct 2021	Jul 2022	Jul 2023	Jul 2024
Manufacturer Name: Boeing - Sixth Work Station A kit				Manufacturer Location: Seattle - WA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Dec 2017	Dec 2018				
Delivery Dates		Dec 2018	Dec 2019				
Manufacturer Name: Boeing - Increment 3 Trainers				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 5				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Feb 2019	Feb 2020	Feb 2021	Feb 2022	Feb 2023
Delivery Dates			Feb 2020	Feb 2021	Feb 2022	Feb 2023	Feb 2024
Manufacturer Name: Boeing - Increment 3 ECP 5 (Block 1)				Manufacturer Location: Seattle, WA			
Administrative Leadtime (<i>in Months</i>): 9				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jun 2018	Jun 2019	Jun 2020			
Delivery Dates		Jun 2019	Jun 2020	Jun 2021			

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Increment 3 ECP 5 (Block 1)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	15 / 3.743	0 / 0.000	15 / 3.743	14 / 3.612	- / -	- / -	- / -	0 / 0.000	29 / 7.355
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.871	14 / 3.671	- / -	- / -	0 / 0.000	29 / 7.542
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.934	15 / 3.998	- / -	0 / 0.000	30 / 7.932
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	15 / 3.743	0 / 0.000	15 / 3.743	29 / 7.483	29 / 7.605	15 / 3.998	- / -	0 / 0.000	88 / 22.829

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	4	11	7	7	7	8	7	7	7	8	7	8	-	-	-	-	-	-	-	88
Out	-	-	-	-	-	-	-	-	-	-	-	-	4	11	7	7	7	8	7	7	7	8	7	8	-	-	-	-	-	-	88

Method of Implementation: Depot Field Mod Team:: Installation Name: Increment 3 ECP 6 (Block 2)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.735	3 / 10.271	- / -	0 / 0.000	5 / 17.006
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 27.389	3 / 10.440	0 / 0.000	11 / 37.829
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 31.319	3 / 11.032	12 / 42.351
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 55.160	15 / 55.160

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Increment 3 ECP 6 (Block 2)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 257.413	70 / 257.413
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.735	11 / 37.660	12 / 41.759	88 / 323.605	113 / 409.759

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	3	3	3	3	3	3	88	113
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	3	100	113

Method of Implementation: Contractor Field Mod Team:: Installation Name: Other Mission Systems - 6th Workstation

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	1 / 0.040	0 / 0.000	1 / 0.040	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.040
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	26 / 1.058	- / -	- / -	- / -	0 / 0.000	26 / 1.058
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.040	0 / 0.000	1 / 0.040	26 / 1.058	- / -	- / -	- / -	0 / 0.000	27 / 1.098

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0586 / P-8 Series											Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: Other Mission Systems - 6th Workstation																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	1	-	-	-	6	7	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Out	-	-	-	-	-	-	-	-	-	1	-	-	-	6	7	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Method of Implementation: Contractor Field Mod Team:: Installation Name: Other Mission Systems - Retrofit existing 2 workstati																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.008	6 / 0.012	- / -	0 / 0.000	10 / 0.020																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.033	6 / 0.013	0 / 0.013	22 / 0.059																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.038	6 / 0.000	24 / 0.038																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.066	30 / 0.066																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 0.306	140 / 0.306																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.008	22 / 0.045	24 / 0.051	176 / 0.385	226 / 0.489																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	6	6	6	6	6	6	6	176	226
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	6	6	6	200	226
Method of Implementation (Organic): Increment 3 ECP 5 (Block 1)																							Installation Quantity: 88								
Method of Implementation (Organic): Increment 3 ECP 6 (Block 2)																							Installation Quantity: 113								

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)		
Installation Information		
Method of Implementation (Organic): Other Mission Systems - 6th Workstation		Installation Quantity: 27
Method of Implementation (Organic): Other Mission Systems - Acoustic Receiver - Not Installed		Installation Quantity: 93
Footnotes: (3) Retrofit all aircraft (119 A/C - 2 per A/C) - 238 Workstations (4) Acoustic Receiver B-Kit will be installed at the O-Level. (5) Lots 1-7 are a different configuration then Lot 8 and beyond, therefore, FY19-21 addresses NRE to incorporate ECP 6 into Lots 1-7. Lot 8 and beyond NRE is budgeted in To Complete. (6) ILS funding profile reflects the need for supporting the new A and B kits by the stand up of a P-8A retrofit support team. (7) Other Support funding profile reflects the need for supporting the new A and B kits by the stand up of a P-8A retrofit support team. (8) Aircraft inductions for ECP-6 installations will be aligned with P-8A depot activities three months prior to ECP-6 kit deliveries to allow for aircraft preparation work to occur prior to install.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.000	0.000	6.259	0.000	6.259	6.361	6.555	8.043	8.256	114.850	150.324
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	0.000	0.000	6.259	0.000	6.259	6.361	6.555	8.043	8.256	114.850	150.324
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	0.000	0.000	6.259	0.000	6.259	6.361	6.555	8.043	8.256	114.850	150.324
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 001-19 provides funding for P-8A Aircraft Systems Upgrades to enable modifications to the aircraft in order to improve aircrew safety, modernize airframe, engine, weapons and stores, and sonobouy launch system performance, and incorporate structural enhancements to resolve readiness, obsolescence, and safety issues required for the airframe to reach its designed/extended service life. Funding is provided for airframe modifications to support changes in Size, Weight, Power, and Cooling (SWAP-C) requirements of aircraft and mission systems equipment or as part of the Rapid Capability Insertion (RCI) process, to incorporate Quick Reaction Capabilities (QRC) both on a temporary and permanent basis, and to incorporate aircraft and propulsion systems related service bulletins and technical directives.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

No major development milestones. The changes identified will utilize the Engineering Change Proposal (ECP) process.

This is a FY19 New Start

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: P-8A Aircraft Systems (OSIP 001-19)													
A Kits													
Recurring													
1.1.1) Aircraft Systems Upgrade 2 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	111 / 11.100	111 / 11.100	
1.1.2) P-360 - Organic	- / -	- / -	- / -	5 / 0.488	- / -	5 / 0.488	- / -	- / -	- / -	- / -	- / -	5 / 0.488	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 0.488	- / -	- / 0.488	- / -	- / -	- / -	- / -	- / 11.100	- / 11.588	
B Kits													
Recurring													
2.1.1) J8 Harness - Organic ⁽⁹⁾	- / -	- / -	- / -	14 / 0.224	- / -	14 / 0.224	14 / 0.228	14 / 0.233	14 / 0.237	13 / 0.225	- / -	69 / 1.147	
2.1.3) P-360 Modification Sensors - Organic	- / -	- / -	- / -	30 / 1.447	- / -	30 / 1.447	- / -	- / -	- / -	- / -	- / -	30 / 1.447	
2.1.4) P-360 Mod Repeaters - Organic	- / -	- / -	- / -	10 / 0.065	- / -	10 / 0.065	- / -	- / -	- / -	- / -	- / -	10 / 0.065	
2.1.5) P-360 Mod DSAC - Organic	- / -	- / -	- / -	5 / 0.325	- / -	5 / 0.325	- / -	- / -	- / -	- / -	- / -	5 / 0.325	
2.1.6) P-360 Modification - NonOrganic ⁽¹⁰⁾	- / -	- / -	- / -	5 / 0.488	- / -	5 / 0.488	- / -	- / -	- / -	- / -	- / -	5 / 0.488	
2.1.7) Aircraft Systems Upgrade - NonOrganic	- / -	- / -	- / -	2 / 0.150	- / -	2 / 0.150	7 / 0.536	7 / 0.546	10 / 0.795	47 / 3.807	38 / 3.135	111 / 8.969	
2.1.8) Aircraft System Upgrade 2 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	111 / 22.200	111 / 22.200	
2.1.9) Engine Fifth Stage - Organic	- / -	- / -	- / -	10 / 0.500	- / -	10 / 0.500	50 / 2.550	57 / 2.964	58 / 3.074	- / -	- / -	175 / 9.088	
2.1.10) Lower Lobe Vibration - NonOrganic	- / -	- / -	- / -	10 / 0.185	- / -	10 / 0.185	14 / 0.264	14 / 0.269	25 / 0.490	20 / 0.400	- / -	83 / 1.608	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 3.384	- / -	- / 3.384	- / 3.578	- / 4.012	- / 4.596	- / 4.432	- / 25.335	- / 45.337	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / -	- / -	- / -	- / 1.612	- / -	- / 1.612	- / 0.380	- / -	- / 0.268	- / -	- / 20.000	- / 22.260	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 1.612	- / -	- / 1.612	- / 0.380	- / -	- / 0.268	- / -	- / 20.000	- / 22.260	
Subtotal: P-8A Aircraft Systems (OSIP 001-19)	- / -	- / -	- / -	91 / 5.484	- / -	91 / 5.484	85 / 3.958	92 / 4.012	107 / 4.864	80 / 4.432	260 / 56.435	715 / 79.185	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 5.484	- / -	- / 5.484	- / 3.958	- / 4.012	- / 4.864	- / 4.432	- / 56.435	- / 79.185	
Support (All Modification Items)													
3.2) Data	- / -	- / -	- / -	- / 0.075	- / -	- / 0.075	- / 0.075	- / 0.065	- / 0.100	- / 0.116	- / 1.500	- / 1.931	
3.5) ILS	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.108	- / 0.140	- / 3.100	- / 3.648	
3.6) Other Support	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	- / 0.302	- / 0.393	- / 0.550	- / 0.536	- / 7.562	- / 9.643	
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.475	- / -	- / 0.475	- / 0.477	- / 0.558	- / 0.758	- / 0.792	- / 12.162	- / 15.222	
Installation													

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Modification Item 1 of 1: P-8A Aircraft Systems (OSIP 001-19)	- / 0.000	- / 0.000	- / 0.000	- / 0.300	- / 0.000	- / 0.300	- / 1.926	- / 1.985	- / 2.421	- / 3.032	- / 46.253	- / 55.917	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.300	- / -	- / 0.300	- / 1.926	- / 1.985	- / 2.421	- / 3.032	- / 46.253	- / 55.917	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	6.259	0.000	6.259	6.361	6.555	8.043	8.256	114.850	150.324	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: P-8A Aircraft Systems (OSIP 001-19)												
Manufacturer Information												
Manufacturer Name: BOEING							Manufacturer Location: Seattle, WA					
Administrative Leadtime (in Months): 5							Production Leadtime (in Months): 8					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Feb 2019									
Delivery Dates			Oct 2019									
Manufacturer Name: TBD- Aircraft Systems Upgrade							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 6					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates				Dec 2019	Oct 2020	Oct 2021	Oct 2022					
Delivery Dates				Jun 2020	Dec 2020	Dec 2021	Dec 2022					
Manufacturer Name: TBD- Lower Lobe Vibration							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 6					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022					
Delivery Dates			Jun 2019	Jun 2020	Jun 2021	Jun 2022	Jun 2023					
Installation Information												
Method of Implementation: Contractor Field Mod Team:: Installation Name: P-360 Modification												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.217	- / -	- / -	- / -	0 / 0.000	5 / 1.217
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.217	- / -	- / -	- / -	0 / 0.000	5 / 1.217

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																					Date: February 2018										
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0586 / P-8 Series										Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: P-8A Aircraft Systems (OSIP 001-19)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: P-360 Modification																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	5

Method of Implementation: Contractor Field MOD Team:: Installation Name: Aircraft Systems Upgrade

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.250	- / -	- / -	- / -	0 / 0.000	2 / 0.250
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.893	- / -	- / -	0 / 0.000	7 / 0.893
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.910	- / -	0 / 0.000	7 / 0.910
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.493	0 / 0.000	10 / 1.493
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 6.200	47 / 6.200
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 4.698	38 / 4.698
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.250	7 / 0.893	7 / 0.910	10 / 1.493	85 / 10.898	111 / 14.444

Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	2	2	1	2	2	2	2	2	3	3	85	111
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	2	2	1	2	2	2	2	2	3	88	111

Method of Implementation: Field Mod Team:: Installation Name: Aircraft System Upgrade 2

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: P-8A Aircraft Systems (OSIP 001-19)																															
Installation Information																															
Method of Implementation: Field Mod Team:: Installation Name: Aircraft System Upgrade 2																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	111 / 33.855	111 / 33.855																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	111 / 33.855	111 / 33.855																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	111
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	111
Method of Implementation: Contractor Field Mod Team:: Installation Name: Lower Lobe Vibration																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	4 / 0.300	0 / 0.000	4 / 0.300	6 / 0.444	- / -	- / -	- / -	0 / 0.000	10 / 0.744																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.015	12 / 0.900	- / -	- / -	0 / 0.000	14 / 0.915																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.192	9 / 1.136	- / -	0 / 0.000	14 / 1.328																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.375	20 / 1.539	0 / 0.000	25 / 1.914																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.500	20 / 1.500																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	4 / 0.300	0 / 0.000	4 / 0.300	8 / 0.459	17 / 1.092	14 / 1.511	20 / 1.539	20 / 1.500	83 / 6.401																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy																				Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0586 / P-8 Series										Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)												
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																	
Modification Item 1 of 1: P-8A Aircraft Systems (OSIP 001-19)																																
Installation Information																																
Method of Implementation: Contractor Field Mod Team:: Installation Name: Lower Lobe Vibration																																
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot	
In	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	1	1	6	6	2	3	4	5	2	3	6	7	7	-	20	83
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	1	1	6	6	2	3	4	5	2	3	6	7	7	20	83
Method of Implementation (Organic): Aircraft Systems Upgrade 2 - Not Installed																				Installation Quantity: 111												
Method of Implementation (Organic): P-360 - Not Installed																				Installation Quantity: 5												
Method of Implementation (Organic): J8 Harness - Not Installed																				Installation Quantity: 69												
Method of Implementation (Organic): P-360 Modification Sensors - Not Installed																				Installation Quantity: 30												
Method of Implementation (Organic): P-360 Mod Repeaters - Not Installed																				Installation Quantity: 10												
Method of Implementation (Organic): P-360 Mod DSAC - Not Installed																				Installation Quantity: 5												
Method of Implementation (Organic): Engine Fifth Stage - Not Installed																				Installation Quantity: 175												
Footnotes: ⁽⁹⁾ Begin in OSIP 26-12 in FY18 then transitioned to OSIP 01-19 in FY19 ⁽¹⁰⁾ All P-360 Kit Buys will be installed on five Aircraft. There are six Sensors and two Repeaters per Aircraft.																																

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: 0604376M, 0604270N				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	96.477	20.544	10.111	11.590	0.000	11.590	41.230	30.959	33.656	24.428	129.667	398.662
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	96.477	20.544	10.111	11.590	0.000	11.590	41.230	30.959	33.656	24.428	129.667	398.662
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	96.477	20.544	10.111	11.590	0.000	11.590	41.230	30.959	33.656	24.428	129.667	398.662
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line item funds modification efforts for the System of Systems (SoS) and Family of Systems (FoS) that support the Marine Air Ground Task Force Electronic Warfare (MAGTF EW) mission. These SoS and FoS are designed to support improved capabilities to address existing and emerging threats and close gaps in MAGTF EW sufficiency and integration in the EW arena. These capabilities are designed for carriage on an expansive variety of organic air and ground MAGTF assets and include: Collaborative Electronic Attack (EA)/EW Battle Management, EW Services Architecture, and Intrepid Tiger series. MAGTF EW will support procurement of new technologies and equipment as needed to combat emerging EW technologies and systems.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: 0604376M, 0604270N				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13) (RELIABILITY / MISSION CAPABILITY)				- / 93.388	- / 20.544	- / 10.111	- / 11.590	- / 0.000	- / 11.590
P-3a	2 / Unmanned Aircraft System (UAS) Electronic Warfare (EW) Payload (OSIP 003-20) (RELIABILITY / MISSION CAPABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)				- / 3.089	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 96.477	- / 20.544	- / 10.111	- / 11.590	- / 0.000	- / 11.590
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13) (RELIABILITY / MISSION CAPABILITY)				- / 41.230	- / 15.359	- / 33.656	- / 24.428	- / 129.667	- / 379.973
P-3a	2 / Unmanned Aircraft System (UAS) Electronic Warfare (EW) Payload (OSIP 003-20) (RELIABILITY / MISSION CAPABILITY)				- / 0.000	- / 15.600	- / 0.000	- / 0.000	- / 0.000	- / 15.600
P-3a	3 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.089
P-40	Total Gross/Weapon System Cost				- / 41.230	- / 30.959	- / 33.656	- / 24.428	- / 129.667	- / 398.662
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The term Electronic Warfare (EW) refers to the use of electromagnetic (EM) energy and Directed Energy (DE) to control the Electromagnetic Spectrum (EMS) or to attack the enemy. EW consists of three divisions: Electronic Attack (EA), Electronic Protect (EP), and Electronic Warfare Support (EWS). Further, some cyber-operations can be enabled by EW operations. Accordingly, the Marine Corps considers the EMS as a war fighting environment that must be fully integrated into the MAGTF Commanders scheme-of-maneuver and concept-of-fires. The concept of operations for MAGTF EW takes advantage of advancements in technology that facilitate integration of airborne and ground-based EW assets to collaboratively interact, providing the MAGTF Commander with the capabilities to control the EMS at the time and place of his/her choosing. The FY 2019 funding request was reduced by \$0.004M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.										

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation				Modification Number / Title: 1 / INTREPID TIGER II SERIES (AN/ ALQ-231) (OSIP 010-13)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	93.388	20.544	10.111	11.590	0.000	11.590	41.230	15.359	33.656	24.428	129.667	379.973
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	93.388	20.544	10.111	11.590	0.000	11.590	41.230	15.359	33.656	24.428	129.667	379.973
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	93.388	20.544	10.111	11.590	0.000	11.590	41.230	15.359	33.656	24.428	129.667	379.973
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
Effort for Intrepid Tiger II (IT II) capability is designed to expand electromagnetic spectrum control, spectrum management, and Electronic Warfare (EW) effectiveness against current targets and to provide adaptability to counter future targets as they emerge. Key to this capability is network accessibility that includes EW Services Architecture derived infrastructure for integration on multiple aviation platforms including any MAGTF tactical fixed-wing, tilt-wing, rotary-wing, and/or unmanned aircraft system platforms.												
The design includes open architecture-compliant and easily expandable hardware and software. Engineering Change Proposals (ECPs) will be utilized in order to upgrade component technology via Advanced Technology Kits. Advanced Technology Kits will focus on new capability insertion for the Technique Generator, Antennas, Network and EW Services, Interfaces, and other supporting technology.												
-Technique Generator Upgrades: Will enable new techniques to provide additional capability that counters existing and anticipated threat systems while maintaining an open architecture to allow future counter threat upgrades.												
-Antenna Upgrades: Will expand transmit and receive frequency coverage to that of current and anticipated threat systems dynamically operating in a broad spectrum.												
-Network and EW Services Upgrade: Will enable a non-co-located operator access to pod functions and information exchanges via radio signals to enhance operational and tactical flexibility.												
-Interface Upgrades: Will enable ground and air based users to configure and monitor pod status, operation and effectiveness.												
-Other Supporting Upgrades: Includes hardware and software components that enable functions of power, cooling, status, control and connectivity as through processors, sensors, radios, radio frequency components and support equipment critical to overall pod and system operation to include techniques, mission planning, operational execution, post-flight analysis and shipping containers.												
ENGINEERING CHANGES: This AN/ALQ-231 program covers system modifications required to improve reliability/maintainability/availability, enhance mission capability, interface/integrate with evolving electromagnetic spectrum control, spectrum management, and EW systems, resolve obsolescence issues, and correct deficiencies found.												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The AN/ALQ-231(V) Intrepid Tiger (IT) II EW pod was developed in response to multiple Joint Urgent Operational Needs Statements (JUONS). IT II is the first deployable hardware and Electronic Warfare Services Architecture in support of the MAGTF EW 2020 vision of a distributed, networked approach to EW that is designed to increase both capability and capacity. The original Block 0 pod provided a communications jamming capability and was integrated on the AV-8B Harrier aircraft. IT II Block 0 completed a Quick Reaction Assessment and began an Early Operational Capability (EOC) deployment in 2012. The Block 0 pod completed four land-based expeditionary and two ship-based Marine Expeditionary Unit (MEU) deployments. The IT II Block 1 USMC TACAIR variant((V)1), was approved in early 2012 as a Rapid Deployment Capability (RDC). The Block 1 pod provides multiple upgrades over the Block 0 variant to include correction of deficiencies, the addition of a survey capability, and integration on a second platform (F/A-18A++ and F/A-18C/D). USMC F/A-18 Block 1 EOC deployment began in 2014. IT II Block 1 USMC rotary-wing variant ((V)3), was approved as												

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 1 / INTREPID TIGER II SERIES (AN/ ALQ-231) (OSIP 010-13)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
a RDC in early 2014. USMC rotary-wing integration began in 2014 with an EOC deployment on UH-1 T/M/S aircraft in 2016. The AN/ALQ-231(V) was designated a Program of Record by PEO(T) May 2017. A RDC to integrate the AN/ALQ-231(V)1 onto USMC KC-130J has been initiated by PEO(T) and PEO(A), with funding received in the FY17 RAA.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation					Modification Number / Title: 1 / INTREPID TIGER II SERIES (AN/ ALQ-231) (OSIP 010-13)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: MULTIPLE PLATFORMS					Modification Type: RELIABILITY / MISSION CAPABILITY					Related RDT&E PEs: 0604376M, 0604270N			
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13)</i>													
<i>B Kits</i>													
<i>Recurring</i>													
2.1.1) AN/ALQ-231(V)3 (Rotary Wing) - Organic ⁽¹⁾	8 / 8.084	8 / 7.104	9 / 8.152	9 / 8.315	- / -	9 / 8.315	22 / 20.732	- / -	- / -	- / -	- / -	56 / 52.387	
2.1.2) DF Arrays - Organic	- / -	5 / 0.905	2 / 0.520	6 / 1.150	- / -	6 / 1.150	28 / 5.265	8 / 1.534	- / -	- / -	- / -	49 / 9.374	
2.1.3) AN/ALQ-231(V)1 BLK X Radar Jammer Upgrade Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.945	3 / 9.096	8 / 24.740	7 / 22.080	34 / 113.723	54 / 175.584	
2.1.4) Archived Mods - Organic	- / 42.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.212	
<i>Subtotal: Recurring</i>	<i>- / 50.296</i>	<i>- / 8.009</i>	<i>- / 8.672</i>	<i>- / 9.465</i>	<i>- / -</i>	<i>- / 9.465</i>	<i>- / 31.942</i>	<i>- / 10.630</i>	<i>- / 24.740</i>	<i>- / 22.080</i>	<i>- / 113.723</i>	<i>- / 279.557</i>	
<i>Non-Recurring</i>													
2.2.1) Installation Equipment N/R - Organic ⁽²⁾	- / 12.119	- / 6.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.419	
<i>Subtotal: Non-Recurring</i>	<i>- / 12.119</i>	<i>- / 6.300</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 18.419</i>	
<i>Subtotal: INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13)</i>	<i>8 / 62.415</i>	<i>13 / 14.309</i>	<i>11 / 8.672</i>	<i>15 / 9.465</i>	<i>- / -</i>	<i>15 / 9.465</i>	<i>52 / 31.942</i>	<i>11 / 10.630</i>	<i>8 / 24.740</i>	<i>7 / 22.080</i>	<i>34 / 113.723</i>	<i>159 / 297.976</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 62.415</i>	<i>- / 14.309</i>	<i>- / 8.672</i>	<i>- / 9.465</i>	<i>- / -</i>	<i>- / 9.465</i>	<i>- / 31.942</i>	<i>- / 10.630</i>	<i>- / 24.740</i>	<i>- / 22.080</i>	<i>- / 113.723</i>	<i>- / 297.976</i>	
Support (All Modification Items)													
3.4) Support Equipment ⁽³⁾	- / 7.893	- / 5.092	- / 0.525	- / 1.193	- / -	- / 1.193	- / 8.337	- / 3.759	- / 7.927	- / 1.339	- / 10.586	- / 46.651	
3.5) ILS	- / 8.116	- / 0.555	- / 0.306	- / 0.312	- / -	- / 0.312	- / 0.318	- / 0.325	- / 0.331	- / 0.338	- / 1.794	- / 12.395	
3.6) Other Support	- / 14.964	- / 0.588	- / 0.608	- / 0.620	- / -	- / 0.620	- / 0.633	- / 0.645	- / 0.658	- / 0.671	- / 3.564	- / 22.951	
<i>Subtotal: Support</i>	<i>- / 30.973</i>	<i>- / 6.235</i>	<i>- / 1.439</i>	<i>- / 2.125</i>	<i>- / -</i>	<i>- / 2.125</i>	<i>- / 9.288</i>	<i>- / 4.729</i>	<i>- / 8.916</i>	<i>- / 2.348</i>	<i>- / 15.944</i>	<i>- / 81.997</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	93.388	20.544	10.111	11.590	0.000	11.590	41.230	15.359	33.656	24.428	129.667	379.973	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 1 / INTREPID TIGER II SERIES (AN/ ALQ-231) (OSIP 010-13)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13)		
Footnotes: (1) Cost growth for the AN/ALQ-231(V)3 from previous estimates is driven by the addition of a Direction Finding Array mission kit, which was not included in previous estimates. Headquarters Marine Corps reassessment of IT II (V)3 requirements resulted in an adjusted inventory objective, reducing total quantity from 62 to 56 systems. (2) FY2017 RAA included \$6.3 million for integration of the AN/ALQ-231(V)1 on the KC-130 platform in FY 2017. (3) FY2017 RAA included an additional \$4.61 million of support equipment. FY 2019 increase in Support Equipment procurement supports the fielding profile for the AN/ALQ-231(V)3 (Rotary Wing) pod. FY 2020, FY 2021, and FY 2022 increases in Support Equipment procurement support the introduction and fielding of the AN/ALQ-231(V)1 BLK X Radar Jammer.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation				Modification Number / Title: 2 / Unmanned Aircraft System (UAS) Electronic Warfare (EW) Payload (OSIP 003-20)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.600	0.000	0.000	0.000	15.600
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.600	0.000	0.000	0.000	15.600
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.600	0.000	0.000	0.000	15.600
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Effort for the Unmanned Aircraft System (UAS) EW Payload is designed to expand MAGTF UAS capabilities for conducting, supporting, and coordinating Electromagnetic Spectrum (EMS) operations in the form of a payload capable of Electronic Attack/Support/Protect. This capability will compliment other EW weapons deployed with the MAGTF, including Intrepid Tiger II, and increases EW capacity through UAS platforms for the MAGTF by providing stand-off, modified-escort, or stand-in profiles delivering both general support and EW close air support.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FY 2018 - 2020: Designs a modular open architecture technology UAS EW payload that is scalable and adaptable to emerging threats, interoperable with the USMC Electronic Warfare Services Architecture (EWSA), and integrated for MAGTF tactical coordination of cyberspace and EW operations via the Cyber-Electronic Warfare Coordination Cell (CEWCC).

FY 2019 - 2021: Develops (2) Engineering Development Models for integration and development and operational testing on MAGTF UAS platforms.

FY 2021: Procurement of (28) production units to meet MAGTF inventory requirement.

FY 2022: Initial operational capability (IOC)

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation					Modification Number / Title: 2 / Unmanned Aircraft System (UAS) Electronic Warfare (EW) Payload (OSIP 003-20)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MULTIPLE PLATFORMS				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs: 0604270N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Unmanned Aircraft System (UAS) Electronic Warfare (EW) Payload (OSIP 003-20)													
B Kits													
Recurring													
2.1.1) UAS EW Payload - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 13.507	- / -	- / -	- / -	28 / 13.507	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.507	- / -	- / -	- / 0.000	- / 13.507	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.030	- / -	- / -	- / -	- / 1.030	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.030	- / -	- / -	- / 0.000	- / 1.030	
Subtotal: Unmanned Aircraft System (UAS) Electronic Warfare (EW) Payload (OSIP 003-20)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 14.537	- / -	- / -	- / -	28 / 14.537	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.537	- / -	- / -	- / 0.000	- / 14.537	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.600	0.000	0.000	0.000	15.600	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 2 / Unmanned Aircraft System (UAS) Electronic Warfare (EW) Payload (OSIP 003-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Unmanned Aircraft System (UAS) Electronic Warfare (EW) Payload (OSIP 003-20)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 3 / INACTIVE OSIPS

[illegible]**Description:**

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 3 / INACTIVE OSIPS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: INACTIVE OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0588 / MQ-8 Series					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	26.711	19.003	32.361	37.907	0.000	37.907	35.504	43.529	31.830	28.787	72.993	328.625
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	26.711	19.003	32.361	37.907	0.000	37.907	35.504	43.529	31.830	28.787	72.993	328.625
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	26.711	19.003	32.361	37.907	0.000	37.907	35.504	43.529	31.830	28.787	72.993	328.625
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The MQ-8 Unmanned Air System (popular name "Fire Scout") provides real-time and non-real-time Intelligence, Surveillance and Reconnaissance (ISR) data to tactical users without the use of manned aircraft or reliance on limited joint theater or national assets. This line item funds improvements via engineering change orders, correction of deficiencies, obsolescence and safety. This includes items such as modernization, modification of payloads/mission systems/Mission Control System (MCS) (also referred to as Ground Control Station), and retrofit of systems/avionics. The program will procure a total of 63 air vehicles (30 MQ-8Bs (6 lost to attrition) and 33 MQ-8Cs) to support Fleet requirements. Current inventory is twenty-four (24) MQ-8B and nineteen (19) MQ-8C air vehicles. Twenty-four (24) MQ-8B Fire Scout systems are in service, of which twenty-two (22) are available for fleet use. Nineteen (19) MQ-8C Fire Scouts are in service with fourteen (14) additional MQ-8Cs under contract. Twenty-two (22) MQ-8Bs and fourteen (14) MQ-8Cs are located at the Contractor Field Team (CFT) facility at Pt Mugu, CA, two (2) MQ-8B and five (5) MQ-8C Fire Scouts at Webster Field, MD. These Operational, Safety and Improvement Programs align to the MQ-8B Initial Operational Capability in 2014 and MQ-8C deliveries that commenced in 2015. The MQ-8 Fire Scout system includes air vehicle(s), payloads (i.e., electro-optical/infra-red/laser designator-range finder, Automated Information System (AIS), voice communications relay, Radar, Weapons and other specialty payloads), MCS (with Tactical Control System and Tactical Common Data Link integrated for interoperability), Unmanned Air Vehicle Common Automatic Recovery System (UCARS) for automatic launch and recovery, training systems, associated spares, and support equipment. The quantities and schedules for MCS and UCARS components are based on host ship requirements, while quantities and schedules for air vehicle components are based on operational deployment plans. The MQ-8 system supports Littoral Combat Ship and/or suitably-equipped air capable ship ISR collection for Navy and urgent operational requirements. Designated service life and average service life remaining are currently being computed via a fatigue life evaluation. All air vehicles support the active military component.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0588 / MQ-8 Series				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14) (Readiness/Safety/Performance Sustainment)			253	- / 21.017	- / 7.200	- / 15.133	- / 21.442	- / 0.000	- / 21.442
P-3a	2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17) (Readiness/Safety/Performance Sustainment)				- / 3.144	- / 3.908	- / 5.836	- / 6.324	- / 0.000	- / 6.324
P-3a	3 / MQ-8 Payloads (OSIP 010-17) (Readiness/Performance)				- / 2.550	- / 7.895	- / 11.392	- / 10.141	- / 0.000	- / 10.141
P-40	Total Gross/Weapon System Cost				- / 26.711	- / 19.003	- / 32.361	- / 37.907	- / 0.000	- / 37.907
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14) (Readiness/Safety/Performance Sustainment)			253	- / 18.735	- / 25.381	- / 12.799	- / 7.283	- / 46.315	- / 175.305
P-3a	2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17) (Readiness/Safety/Performance Sustainment)				- / 6.911	- / 5.034	- / 5.531	- / 3.208	- / 4.247	- / 44.143
P-3a	3 / MQ-8 Payloads (OSIP 010-17) (Readiness/Performance)				- / 9.858	- / 13.114	- / 13.500	- / 18.296	- / 22.431	- / 109.177
P-40	Total Gross/Weapon System Cost				- / 35.504	- / 43.529	- / 31.830	- / 28.787	- / 72.993	- / 328.625
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY19 funds improvements via engineering change orders, for correction of deficiencies, obsolescence and safety. This includes correction of deficiencies found during operational use and deployments, improvements for maintainability and reliability, safety corrections, Radar/other special payloads, Mission Control System (MCS), and emerging requirements and retrofit of capabilities procured post air vehicle delivery. Budget reflects MQ-8Cs, procurements starting in FY12, being transitioned to fleet service.										

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 253					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	21.017	7.200	15.133	21.442	0.000	21.442	18.735	25.381	12.799	7.283	46.315	175.305
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	21.017	7.200	15.133	21.442	0.000	21.442	18.735	25.381	12.799	7.283	46.315	175.305
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	21.017	7.200	15.133	21.442	0.000	21.442	18.735	25.381	12.799	7.283	46.315	175.305
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational, Safety and Improvement Program (OSIP) provides resources to correct MQ-8 Air Vehicle deficiencies resulting from readiness, obsolescence, safety and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues. It also provides for Pre-Planned Product Improvement (P3I) efforts that will improve and modernize system performance, reliability, and maintainability of sensors, avionics, and airframe components to support Intelligence, Surveillance, and Reconnaissance collection for both Navy and urgent operational requirements. In order to meet emerging deficiencies in the MQ-8B and MQ-8C aircraft, integrated systems and trainers must be modified as critical corrections / changes are identified. Funds will be used to incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve operations. Modifications for the MQ-8 aircraft include, but are not limited to: the Identification Friend or Foe system, avionics bay redesign, MQ-8B Radar, VORTEX relocation, Automatic Identification System, hot weather modifications, blades, engines, control rods, heavy gauge wiring, engine accelerometers, optical tracker cable, navigation lights, corrosion prevention, light weight doors, Unmanned Aerial Vehicle Common Automated Recovery System (UCARS), lithium battery, MQ-8 windscreen, MQ-8 airframe structure, MQ-8 pitot tubes, ARC-210 radios, Tactical Common Data Link, shipboard interface system, MQ-8 common avionics, software, cyber security, network interfaces, processor upgrades, System Integration Lab (SIL) and Hardware-in-the-Loop (HITL) enhancements, Windows 10 transition, maintenance device updates, and other related systems. The FY19 budget focus includes dual UCARS, the top safety priority for the MQ-8, and MQ-8B radar, an essential warfighter capability requested by the fleet. This OSIP provides funds to support modifications to address safety and readiness issues and will be depot-level, performed by Fleet Readiness Centers, contractor artisans, contractor field modification teams, and/or organic support and the establishment of Organic Depot Capability for Core Repairables. Coincident with the MQ-8B deployment on the Littoral Combat Ship (LCS) class, a top ten safety issue list was developed during the program's System Safety Working Group. As solutions become available, aircraft modifications will be implemented to address critical safety issues. Identified issues may include icing detection/avoidance, ground handling, airspace awareness, Global Positioning System vulnerabilities, and cyber security. Mission Control System (MCS), UCARS, and Payloads requirements were aligned from OSIP 021-14 to OSIPs 009-17 and 010-17, respectively in PB17. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MQ-8B Initial Operational Capability (IOC) occurred in FY14. The MQ-8B has deployed since FY10 to support Intelligence, Surveillance and Reconnaissance Task Force, Joint Urgent Operational Need, and is embarked in the second operational deployment aboard the LCS class as part of the Surface Warfare Mission Package.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 253						
Models of Systems Affected: MQ-8B/C			Modification Type: Readiness/Safety/Performance Sustainment					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)													
A Kits													
Recurring													
1.1.1) Radar (MQ-8B) - NonOrganic	7 / 1.100	7 / 1.198	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 2.298	
1.1.2) Hot Weather Scoops/Delta Mods (MQ-8B) - NonOrganic	7 / 0.074	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.074	
1.1.3) VORTEX Relocation (MQ-8B) - NonOrganic ⁽¹⁾	- / -	24 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.225	
1.1.4) Heavy Gauge Wiring (MQ-8B) - Organic	- / -	- / -	12 / 0.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.202	24 / 0.394	
1.1.5) Optical Tracker Cable (MQ-8C) - Organic	- / -	- / -	17 / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.002	30 / 0.019	
1.1.6) Navigation Lights (MQ-8C) - Organic	- / -	- / -	17 / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.020	30 / 0.037	
1.1.7) Aft Faraday Cage Connectors (MQ-8C) - NonOrganic	- / -	- / -	17 / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.020	30 / 0.037	
1.1.8) Connector REFDES Labels (MQ-8C) - Organic	- / -	- / -	17 / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.020	30 / 0.037	
1.1.9) Corrosion Prevention (MQ-8C) - NonOrganic	- / -	- / -	2 / 0.005	17 / 0.043	- / -	17 / 0.043	- / -	- / -	- / -	- / -	11 / 0.031	30 / 0.079	
1.1.10) UHF Antenna Screws (MQ-8C) - Organic	- / -	- / -	17 / 0.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.003	30 / 0.005	
1.1.11) Accelerometers (MQ-8C) - Organic	- / -	19 / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.033	30 / 0.073	
1.1.12) UCARS Dual Antenna (MQ-8B/C) - NonOrganic	- / -	2 / 0.300	7 / 1.050	10 / 1.500	- / -	10 / 1.500	8 / 1.400	3 / 0.500	2 / 0.400	- / -	22 / 4.510	54 / 9.660	
Subtotal: Recurring	- / 1.174	- / 1.763	- / 1.317	- / 1.543	- / -	- / 1.543	- / 1.400	- / 0.500	- / 0.400	- / -	- / 4.841	- / 12.938	
B Kits													
Recurring													
2.1.1) Radar (MQ-8B) - Organic	- / -	- / -	- / -	3 / 3.126	- / -	3 / 3.126	2 / 2.090	2 / 2.100	1 / 1.080	- / -	10 / 11.500	18 / 19.896	
2.1.2) ARC-210 Upgrade (MQ-8B) - Organic	- / -	- / -	5 / 1.217	7 / 1.650	- / -	7 / 1.650	5 / 1.400	5 / 1.250	2 / 0.600	- / -	- / -	24 / 6.117	
2.1.3) VORTEX (MQ-8B) - Organic	- / -	- / -	- / -	4 / 0.600	- / -	4 / 0.600	- / -	- / -	- / -	- / -	10 / 1.680	14 / 2.280	
2.1.4) IFF APX-118 to APX-123 Upgrade (MQ-8B) - Organic	14 / 0.611	10 / 0.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.744	
2.1.5) Automatic Identification System (MQ-8B/C) - Organic	- / -	- / -	35 / 0.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.368	
2.1.6) Lithium Battery Upgrade (MQ-8B/C) - Organic	- / -	- / -	- / -	40 / 1.080	- / -	40 / 1.080	14 / 0.392	- / -	- / -	- / -	- / -	54 / 1.472	
2.1.7) UCARS Redundancy Retrofit (MQ-8B/C) - NonOrganic	- / -	- / -	- / -	18 / 3.000	- / -	18 / 3.000	10 / 1.700	15 / 2.550	11 / 1.870	- / -	- / -	54 / 9.120	
2.1.8) Processor Upgrade (MQ-8B/MCS) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.000	20 / 12.100	5 / 2.614	5 / 3.540	- / -	34 / 21.254	

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0588 / MQ-8 Series				Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 253					
Models of Systems Affected: MQ-8B/C			Modification Type: Readiness/Safety/Performance Sustainment					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.9) Windscreen (MQ-8C) - NonOrganic	- / -	- / -	- / -	10 / 0.300	- / -	10 / 0.300	10 / 0.300	10 / 0.300	- / -	- / -	- / -	30 / 0.900
2.1.10) Lightweight Doors (MQ-8C) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.723	9 / 0.945	8 / 0.864	6 / 0.660	- / -	30 / 3.192
2.1.11) Prior Year Modifications - Organic	121 / 6.328	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	121 / 6.328
Subtotal: Recurring	- / 6.939	- / 0.133	- / 1.585	- / 9.756	- / -	- / 9.756	- / 9.605	- / 19.245	- / 7.028	- / 4.200	- / 13.180	- / 71.671
Non-Recurring												
2.2.1) N/R for MQ-8 Modifications - Organic (2)	- / 10.566	- / 4.097	- / 1.384	- / 3.154	- / -	- / 3.154	- / 0.682	- / 0.337	- / 0.376	- / 0.144	- / 6.225	- / 26.965
Subtotal: Non-Recurring	- / 10.566	- / 4.097	- / 1.384	- / 3.154	- / -	- / 3.154	- / 0.682	- / 0.337	- / 0.376	- / 0.144	- / 6.225	- / 26.965
Subtotal: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)	149 / 18.679	62 / 5.993	146 / 4.286	109 / 14.453	- / -	109 / 14.453	60 / 11.687	64 / 20.082	29 / 7.804	11 / 4.344	141 / 24.246	771 / 111.574
Subtotal: Procurement, All Modification Items	- / 18.679	- / 5.993	- / 4.286	- / 14.453	- / -	- / 14.453	- / 11.687	- / 20.082	- / 7.804	- / 4.344	- / 24.246	- / 111.574
Support (All Modification Items)												
3.1) ILS (3)	- / 0.832	- / 0.192	- / 0.757	- / 0.523	- / -	- / 0.523	- / 0.442	- / 0.450	- / 0.470	- / -	- / 8.500	- / 12.166
3.2) Data	- / 0.480	- / 0.125	- / 0.451	- / 0.242	- / -	- / 0.242	- / 0.280	- / 0.250	- / -	- / -	- / -	- / 1.828
3.3) Training Equipment (4)	- / 0.094	- / -	- / 5.750	- / 2.100	- / -	- / 2.100	- / 1.700	- / 0.720	- / 0.600	- / 0.100	- / -	- / 11.064
3.4) Support Equipment	- / 0.140	- / 0.100	- / 0.211	- / 1.125	- / -	- / 1.125	- / 1.235	- / 1.239	- / 1.145	- / 1.125	- / 0.136	- / 6.456
3.5) Other Support	- / 0.792	- / 0.200	- / 1.618	- / 1.058	- / -	- / 1.058	- / 1.141	- / 1.190	- / 1.280	- / 0.214	- / 9.703	- / 17.196
Subtotal: Support	- / 2.338	- / 0.617	- / 8.787	- / 5.048	- / -	- / 5.048	- / 4.798	- / 3.849	- / 3.495	- / 1.439	- / 18.339	- / 48.710
Installation												
Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)	- / 0.000	- / 0.590	- / 2.060	- / 1.941	- / 0.000	- / 1.941	- / 2.250	- / 1.450	- / 1.500	- / 1.500	- / 3.730	- / 15.021
Subtotal: Installation	- / 0.000	- / 0.590	- / 2.060	- / 1.941	- / -	- / 1.941	- / 2.250	- / 1.450	- / 1.500	- / 1.500	- / 3.730	- / 15.021
Total												
Total Cost (Procurement + Support + Installation)	21.017	7.200	15.133	21.442	0.000	21.442	18.735	25.381	12.799	7.283	46.315	175.305

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0588 / MQ-8 Series			Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code: 253		
Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)							
Manufacturer Information							
Manufacturer Name: Not Specified.				Manufacturer Location: Not Specified..			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Northrop Grumman Corp - Hot Weather Scoops/Delta Mods (MQ-8B) ⁽⁵⁾				Manufacturer Location: Rancho Bernardo, CA			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: NGC (Corrosion)				Manufacturer Location: Rancho Bernardo, CA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jan 2018	Jan 2019				
Delivery Dates		May 2018	May 2019				
Manufacturer Name: NGC (Windscreen)				Manufacturer Location: Rancho Bernardo, CA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jan 2019	Jan 2020	Jan 2021		
Delivery Dates			Jun 2019	Jun 2020	Jun 2021		
Manufacturer Name: NGC (Processors)				Manufacturer Location: Rancho Bernardo, CA			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates				Oct 2020	Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: SNC-UCARS Antenna (MQ-8B)				Manufacturer Location: Sparks, NV			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	May 2017	Dec 2017	Dec 2018	Dec 2019	Dec 2020		

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0588 / MQ-8 Series				Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 253						
Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)													
Manufacturer Information													
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Delivery Dates	Nov 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021								
Manufacturer Name: SNC (UCARS Redundancy)				Manufacturer Location: Sparks, NV									
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 12									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates			Nov 2018	Nov 2019	Nov 2020	Nov 2021							
Delivery Dates			Oct 2019	Oct 2020	Oct 2021	Oct 2022							
Manufacturer Name: L-3 (Vortex Relocation))				Manufacturer Location: Salt Lake City, UT									
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 7									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	Nov 2017												
Delivery Dates	May 2018												
Manufacturer Name: NGC (Aft Faraday Cage)				Manufacturer Location: Rancho, Bernardo, CA									
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates		Jan 2018											
Delivery Dates		Sep 2018											
Manufacturer Name: Northrop Grumman Corp-Radar (MQ-8B)				Manufacturer Location: Rancho Bernardo, CA									
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 7									
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023						
Contract Dates	May 2017												
Delivery Dates	Sep 2017												
Installation Information													
Method of Implementation: Contractor Field Mod Team:: Installation Name: MQ-8B Radar													
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	- / -	7 / 0.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 0.217	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: MQ-8B Radar

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2017	- / -	- / -	7 / 0.222	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 0.222
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	7 / 0.217	7 / 0.222	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	14 / 0.439

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	1	2	2	2	1	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	-	-	-	-	2	2	4	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

Method of Implementation: FRC Depot:: Installation Name: Hot Weather Scoops/Delta Mods (MQ-8B)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	4 / 0.373	3 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 0.598
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0588 / MQ-8 Series										Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code: 253																
Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)																															
Installation Information																															
Method of Implementation: FRC Depot:: Installation Name: Hot Weather Scoops/Delta Mods (MQ-8B)																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Total		- / -		4 / 0.373		3 / 0.225		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		7 / 0.598							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Out	-	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Method of Implementation: FRC Depot/Contractor Field Mod Team:: Installation Name: VORTEX Relocation (MQ-8B)																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2017		- / -		- / -		7 / 0.800		7 / 0.800		0 / 0.000		7 / 0.800		8 / 0.800		2 / 0.200		- / -		- / -		0 / 0.000		24 / 2.600							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		- / -		7 / 0.800		7 / 0.800		0 / 0.000		7 / 0.800		8 / 0.800		2 / 0.200		- / -		- / -		0 / 0.000		24 / 2.600							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	4	3	2	2	2	1	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	-	-	-	-	-	-	-	4	3	2	2	2	1	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	24

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Aft Faraday Cage Connectors (MQ-8C)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	17 / 0.204	0 / 0.000	17 / 0.204	- / -	- / -	- / -	- / -	0 / 0.000	17 / 0.204
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.210	13 / 0.210
Total	- / -	- / -	- / -	17 / 0.204	0 / 0.000	17 / 0.204	- / -	- / -	- / -	- / -	13 / 0.210	30 / 0.414

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	10	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	30	
Out	-	-	-	-	-	-	-	-	-	-	5	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	30	

Method of Implementation: Contractor Field Mod Team:: Installation Name: Corrosion Prevention (MQ-8C)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	2 / 0.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.013
FY 2019	- / -	- / -	- / -	17 / 0.107	0 / 0.000	17 / 0.107	- / -	- / -	- / -	- / -	0 / 0.000	17 / 0.107
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Corrosion Prevention (MQ-8C)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.120	11 / 0.120
Total	- / -	- / -	2 / 0.013	17 / 0.107	0 / 0.000	17 / 0.107	- / -	- / -	- / -	- / -	11 / 0.120	30 / 0.240

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	2	-	-	-	10	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	30	
Out	-	-	-	-	-	-	-	-	2	-	-	10	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	30	

Method of Implementation: FRC Depot:: Installation Name: UCARS Dual Antenna (MQ-8B/C)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	2 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.200
FY 2018	- / -	- / -	7 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 0.600
FY 2019	- / -	- / -	- / -	10 / 0.800	0 / 0.000	10 / 0.800	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.800
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.800	- / -	- / -	- / -	0 / 0.000	8 / 0.800
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.200	- / -	- / -	0 / 0.000	3 / 0.200
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	2 / 0.200
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.100	22 / 2.100
Total	- / -	- / -	9 / 0.800	10 / 0.800	0 / 0.000	10 / 0.800	8 / 0.800	3 / 0.200	- / -	- / -	24 / 2.300	54 / 4.900

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0588 / MQ-8 Series											Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code: 253														
Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)																															
Installation Information																															
Method of Implementation: FRC Depot:: Installation Name: UCARS Dual Antenna (MQ-8B/C)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	2	-	3	4	-	-	5	5	-	-	4	4	-	-	2	1	-	-	-	-	-	-	-	-	24	54
Out	-	-	-	-	-	2	-	3	4	-	-	5	5	-	-	4	4	-	-	2	1	-	-	-	-	-	-	-	24	54	

Method of Implementation: Contractor Field Mod Team:: Installation Name: UCARS Redundancy Retrofit (MQ-8B/C)												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.600	- / -	- / -	- / -	0 / 0.000	18 / 0.600
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.500	- / -	- / -	0 / 0.000	10 / 0.500
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.500	- / -	0 / 0.000	15 / 0.500
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.500	0 / 0.000	11 / 0.500
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.600	10 / 0.500	15 / 0.500	11 / 0.500	0 / 0.000	54 / 2.100

Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	10	-	-	-	15	-	-	-	11	-	-	-	-	54
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	-	6	4	-	-	6	6	3	-	6	5	-	-	-	54

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Installation Information

Method of Implementation: Contractor Field Mod Teams:: Installation Name: Processor Upgrade (MQ-8B/MCS)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.500	- / -	- / -	0 / 0.000	4 / 0.500
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.000	- / -	0 / 0.000	20 / 1.000
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.000	0 / 0.000	5 / 1.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.100	5 / 1.100
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.500	20 / 1.000	5 / 1.000	5 / 1.100	34 / 3.600

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	10	10	-	-	5	-	-	-	5	34
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	10	10	-	-	5	-	-	-	5	34

Method of Implementation: Contractor Field Mod Team:: Installation Name: Windscreen (MQ-8C)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	10 / 0.030	0 / 0.000	10 / 0.030	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.030
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.050	- / -	- / -	- / -	0 / 0.000	10 / 0.050
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.050	- / -	- / -	0 / 0.000	10 / 0.050
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0588 / MQ-8 Series										Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)																			
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code: 253																								
Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)																																							
Installation Information																																							
Method of Implementation: Contractor Field Mod Team:: Installation Name: Windscreen (MQ-8C)																																							
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																										
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																								
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																									
Total		- / -	- / -	- / -	10 / 0.030	0 / 0.000	10 / 0.030	10 / 0.050	10 / 0.050	- / -	- / -	0 / 0.000	30 / 0.130																										
Installation Schedule																																							
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	-	-	-	-	-	-	5	5	-	-	5	5	-	-	5	5	-	-	-	-	-	-	-	-	-	30								
Out	-	-	-	-	-	-	-	-	-	-	-	5	5	-	-	5	5	-	-	5	5	-	-	-	-	-	-	-	-	-	30								
Method of Implementation (Organic): Heavy Gauge Wiring (MQ-8B)																														Installation Quantity: 24									
Method of Implementation (Organic): Optical Tracker Cable (MQ-8C)																														Installation Quantity: 30									
Method of Implementation (Organic): Navigation Lights (MQ-8C)																														Installation Quantity: 30									
Method of Implementation (Organic): Connector REFDES Labels (MQ-8C)																														Installation Quantity: 30									
Method of Implementation (Organic): UHF Antenna Screws (MQ-8C)																														Installation Quantity: 30									
Method of Implementation (Organic): Accelerometers (MQ-8C)																														Installation Quantity: 30									
Method of Implementation (Organic): Radar (MQ-8B)																														Installation Quantity: 18									
Method of Implementation (Organic): ARC-210 Upgrade (MQ-8B)																														Installation Quantity: 24									

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code: 253
Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)		
Installation Information		
Method of Implementation (Organic): VORTEX (MQ-8B)		Installation Quantity: 14
Method of Implementation (Organic): IFF APX-118 to APX-123 Upgrade (MQ-8B)		Installation Quantity: 24
Method of Implementation (Organic): Automatic Identification System (MQ-8B/C)		Installation Quantity: 35
Method of Implementation (Organic): Lithium Battery Upgrade (MQ-8B/C)		Installation Quantity: 54
Method of Implementation (Organic): Lightweight Doors (MQ-8C)		Installation Quantity: 30
Method of Implementation (Organic): Prior Year Modifications		Installation Quantity: 121
Footnotes: (1) Reflects life of type buy for Vortex relocation materials. (2) The FY19 non-recurring budget supports increased redesign requirements associated with the air vehicle computer processor upgrades, UCARS redundancy retrofits, and other efforts. The FY18 non-recurring budget supports component replacements for dual UCARS antennas, Automatic Information System, ARC-210, corrosion prevention, and other efforts. Where possible, the program will accelerate out-year maintainability and reliability, and safety related ECPs. (3) Due to the number of ECPs starting and stopping between FY17 to FY23, the Support cost elements (ILS, Data, Training Equipment, Support Equipment, and Other Support) cannot be analyzed at standard phasing levels. (4) FY17 Trainer requirement of \$1.45M (PB17) shifted to FY18 to align with planned contract award for MQ-8B/C trainer equipment capability improvements. FY18 Training increase supports update of the Avionics Maintenance Trainer (AMT) and Combined Maintenance Trainer (CMT) training devices to ensure provided training aligns with the same configuration of fleet air vehicles. FY19-FY23 training increases support trainer devices and maintenance course capability improvements for the AMT and CMT and various proficiency training device improvement and associated courseware. (5) Original kits procured in the prior years.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.144	3.908	5.836	6.324	0.000	6.324	6.911	5.034	5.531	3.208	4.247	44.143
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.144	3.908	5.836	6.324	0.000	6.324	6.911	5.034	5.531	3.208	4.247	44.143
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.144	3.908	5.836	6.324	0.000	6.324	6.911	5.034	5.531	3.208	4.247	44.143
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This Operational, Safety and Improvement Program (OSIP) addresses modifications to the Mission Control System (MCS) for hardware and software obsolescence. Increases are because the External Communications (EXCOMM) rack and the Unmanned Aerial Vehicle Common Automatic Recovery System (UCARS) have obsolete components which require replacement. Some non-recurring engineering has been completed to support production. This effort procures the kits required and funds the retrofit of shipboard MD-4 MCS equipment onboard Littoral Combat Ships (LCS) and shore-based MD-4 MCS equipment installed at Point Mugu, CA. This budget accelerates MCS Upgrades to reduce cyber security vulnerabilities, reduces obsolescence, and supports fleet requirements. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MQ-8B Initial Operational Capability (IOC) occurred in FY14. The MQ-8B has deployed since FY10 to support Intelligence, Surveillance and Reconnaissance (ISR) Task Force, Joint Urgent Operational Need, and is embarked in the second operational deployment aboard the Littoral Combat Ship (LCS) class as part of the Surface Warfare Mission Package. MCS and UCARS requirements were aligned from OSIP 021-14 to OSIP 009-17 in PB17.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: Readiness/Safety/Performance Sustainment				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)</i>													
B Kits													
Recurring													
1.1.1) MCS Upgrade Console Phase I - Organic	2 / 2.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.800	
1.1.2) MCS Upgrade EXCOMM Phase II - NonOrganic	- / -	4 / 3.384	4 / 3.406	4 / 3.493	- / -	4 / 3.493	4 / 3.550	- / -	5 / 5.392	- / -	2 / 1.950	23 / 21.175	
1.1.3) MCS ARC-210 Upgrade - Organic	- / -	- / -	2 / 0.645	3 / 0.975	- / -	3 / 0.975	4 / 1.339	8 / 2.732	- / -	- / -	- / -	17 / 5.691	
<i>Subtotal: Recurring</i>	<i>- / 2.800</i>	<i>- / 3.384</i>	<i>- / 4.051</i>	<i>- / 4.468</i>	<i>- / -</i>	<i>- / 4.468</i>	<i>- / 4.889</i>	<i>- / 2.732</i>	<i>- / 5.392</i>	<i>- / -</i>	<i>- / 1.950</i>	<i>- / 29.666</i>	
Non-Recurring													
1.2.1) N/R for MCS Modifications - Organic	- / 0.186	- / 0.403	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.392	1 / 0.981	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.186</i>	<i>- / 0.403</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.392</i>	<i>- / 0.981</i>	
<i>Subtotal: MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)</i>	<i>2 / 2.986</i>	<i>4 / 3.787</i>	<i>6 / 4.051</i>	<i>7 / 4.468</i>	<i>- / -</i>	<i>7 / 4.468</i>	<i>8 / 4.889</i>	<i>8 / 2.732</i>	<i>5 / 5.392</i>	<i>- / -</i>	<i>3 / 2.342</i>	<i>43 / 30.647</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 2.986</i>	<i>- / 3.787</i>	<i>- / 4.051</i>	<i>- / 4.468</i>	<i>- / -</i>	<i>- / 4.468</i>	<i>- / 4.889</i>	<i>- / 2.732</i>	<i>- / 5.392</i>	<i>- / -</i>	<i>- / 2.342</i>	<i>- / 30.647</i>	
Support (All Modification Items)													
2.1) ILS	- / 0.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.375	- / 0.421	
2.2) Other Support	- / 0.112	- / 0.121	- / 0.125	- / 0.093	- / -	- / 0.093	- / 0.120	- / 0.135	- / 0.139	- / 0.146	- / 0.480	- / 1.471	
<i>Subtotal: Support</i>	<i>- / 0.158</i>	<i>- / 0.121</i>	<i>- / 0.125</i>	<i>- / 0.093</i>	<i>- / -</i>	<i>- / 0.093</i>	<i>- / 0.120</i>	<i>- / 0.135</i>	<i>- / 0.139</i>	<i>- / 0.146</i>	<i>- / 0.855</i>	<i>- / 1.892</i>	
Installation													
<i>Modification Item 1 of 1: MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 1.660</i>	<i>- / 1.763</i>	<i>- / 0.000</i>	<i>- / 1.763</i>	<i>- / 1.902</i>	<i>- / 2.167</i>	<i>- / 0.000</i>	<i>- / 3.062</i>	<i>- / 1.050</i>	<i>- / 11.604</i>	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.660</i>	<i>- / 1.763</i>	<i>- / -</i>	<i>- / 1.763</i>	<i>- / 1.902</i>	<i>- / 2.167</i>	<i>- / -</i>	<i>- / 3.062</i>	<i>- / 1.050</i>	<i>- / 11.604</i>	
Total													
Total Cost (Procurement + Support + Installation)	3.144	3.908	5.836	6.324	0.000	6.324	6.911	5.034	5.531	3.208	4.247	44.143	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0588 / MQ-8 Series										Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)													
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																		
Modification Item 1 of 1: MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)																																	
Manufacturer Information																																	
Manufacturer Name: NAWC-AD - MCS Upgrade EXCOMM Phase II															Manufacturer Location: NAS Patuxent River, MD																		
Administrative Leadtime (in Months): 5															Production Leadtime (in Months): 7																		
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023							
Contract Dates		Mar 2017				Mar 2018				Mar 2019				Mar 2020								Mar 2022											
Delivery Dates		Sep 2017				Sep 2018				Sep 2019				Sep 2020								Sep 2022											
Installation Information																																	
Method of Implementation: Govt Field Mod Team:: Installation Name: MCS Upgrade EXCOMM Phase II																																	
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total									
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)									
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2017		- / -		- / -		4 / 1.660		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		4 / 1.660							
FY 2018		- / -		- / -		- / -		4 / 1.763		0 / 0.000		4 / 1.763		- / -		- / -		- / -		- / -		- / -		0 / 0.000		4 / 1.763							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.902		- / -		- / -		- / -		- / -		0 / 0.000		4 / 1.902							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 2.167		- / -		- / -		- / -		0 / 0.000		4 / 2.167							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 3.062		0 / 0.000		5 / 3.062							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 1.050		2 / 1.050							
Total		- / -		- / -		4 / 1.660		4 / 1.763		0 / 0.000		4 / 1.763		4 / 1.902		4 / 2.167		- / -		5 / 3.062		2 / 1.050		23 / 11.604									
Installation Schedule																																	
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	1	1	2	1	2	23		
Out	-	-	-	-	-	-	1	1	2	-	1	1	2	-	1	1	2	-	1	1	2	-	-	-	-	-	2	1	2	2	23		
Method of Implementation (Organic): MCS Upgrade Console Phase I																														Installation Quantity: 2			

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)		
Installation Information		
Method of Implementation (Organic): MCS ARC-210 Upgrade		Installation Quantity: 17
Method of Implementation (Organic): N/R for MCS Modifications - Not Installed		Installation Quantity: 1

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2.550	7.895	11.392	10.141	0.000	10.141	9.858	13.114	13.500	18.296	22.431	109.177
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2.550	7.895	11.392	10.141	0.000	10.141	9.858	13.114	13.500	18.296	22.431	109.177
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2.550	7.895	11.392	10.141	0.000	10.141	9.858	13.114	13.500	18.296	22.431	109.177
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MQ-8 Payloads Operational, Safety and Improvement Program (OSIP) addresses modifications to the MQ-8 Fire Scout System which add new payloads, such as Radar and the Advanced Precision Kill Weapons System (APKWS) II, and add capability and reliability improvements to existing payloads.

The Radar payload includes the integration of a competitively-selected non-developmental item Radar with the air vehicle, Minotaur data correlation and resource management software and hardware, and Mission Control Station (MCS). This capability will improve the MQ-8 Fire Scout's performance in support of Surface Warfare (SUW) Mission Module for the Littoral Combat Ship (LCS) and urgent operational requirements. Once the hardware and software modifications to the air vehicle and MCS are complete, the MQ-8 Fire Scout Mission System Trainer, Avionics Technicians' Trainer, and Aircraft Mechanics' Trainer will be upgraded to include this capability. Delivered MQ-8C air vehicles will be retrofitted for the upgrades via kits.

There will be future integration of a weapons payload to include transition of the MQ-8B weaponization Rapid Deployment Capability (RDC) hardware and software to the MQ-8C air vehicle. Non-Recurring Engineering (NRE) for initial payloads weapons design and integration study will commence in FY23 for the APKWS II missile and its associated hardware and software modifications to the MQ-8C air vehicle and MCS. NRE to integrate and qualify existing Bell 407 external stores suspension equipment with the MQ-8C Air Vehicle (AV) and retrofit of delivered MQ-8C AVs with Weapons payload upgrades via kits are deferred beyond the FYDP.

There will be future integration of payloads in support of the Mine Countermeasures (MCM) mission module on LCS. Future payloads include the Coastal Battlefield Reconnaissance and Analysis (COBRA) system and the Data Mission Payload (DMP). Future payload integration efforts will be considered when integrating current efforts. Payload requirements were aligned from OSIP 021-14 in PB16 to OSIP 010-17 in PB17.

DEVELOPMENT STATUS AND MAJOR DEVELOPMENT MILESTONES:

Payload Milestones: A maritime Radar has been competitively selected for integration into the MQ-8C Fire Scout System. Completion of development and integration is anticipated in FY18 with a Follow-on Test and Evaluation (FOT&E) period starting in 2Q FY19, followed by an Initial Operational Capability (IOC) in 4Q FY20.

MQ-8 System Milestones: MQ-8B IOC occurred in FY14. The MQ-8B has deployed since FY10 to support Intelligence, Surveillance and Reconnaissance (ISR) Task Force, Joint Urgent Operational Need requirements, and has embarked in the second operational deployment aboard the LCS class as part of the SUW Mission Package.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: Readiness/Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: MQ-8 Payloads (OSIP 010-17)													
A Kits													
Recurring													
1.1.1) MQ-8C Radar Upgrade II A Kits - NonOrganic ⁽⁶⁾	- / -	4 / 1.600	4 / 1.640	4 / 3.109	- / -	4 / 3.109	4 / 3.200	5 / 4.120	5 / 4.245	6 / 5.232	- / 2.797	32 / 25.943	
Subtotal: Recurring	- / 0.000	- / 1.600	- / 1.640	- / 3.109	- / -	- / 3.109	- / 3.200	- / 4.120	- / 4.245	- / 5.232	- / 2.797	- / 25.943	
B Kits													
Recurring													
2.1.1) MQ-8C Radar Upgrade II B Kits - Organic	- / -	4 / 4.637	4 / 4.753	4 / 4.885	- / -	4 / 4.885	4 / 5.020	5 / 6.449	5 / 6.626	6 / 8.165	8 / 11.200	40 / 51.735	
2.1.2) MQ-8C APKWS - Organic ⁽⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 6.750	30 / 6.750	
Subtotal: Recurring	- / 0.000	- / 4.637	- / 4.753	- / 4.885	- / -	- / 4.885	- / 5.020	- / 6.449	- / 6.626	- / 8.165	- / 17.950	- / 58.485	
Non-Recurring													
2.2.1) Payloads Modification Nonrecurring - Organic ⁽⁸⁾	- / 2.550	- / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.800	- / -	- / 4.900	
Subtotal: Non-Recurring	- / 2.550	- / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.800	- / 0.000	- / 4.900	
Subtotal: MQ-8 Payloads (OSIP 010-17)	- / 2.550	8 / 6.787	8 / 6.393	8 / 7.994	- / -	8 / 7.994	8 / 8.220	10 / 10.569	10 / 10.871	12 / 15.197	38 / 20.747	102 / 89.328	
Subtotal: Procurement, All Modification Items	- / 2.550	- / 6.787	- / 6.393	- / 7.994	- / -	- / 7.994	- / 8.220	- / 10.569	- / 10.871	- / 15.197	- / 20.747	- / 89.328	
Support (All Modification Items)													
3.1) ILS	- / -	- / 0.650	- / 0.720	- / 0.300	- / -	- / 0.300	- / 0.190	- / 0.445	- / 0.445	- / 0.500	- / -	- / 3.250	
3.2) Data	- / -	- / 0.458	- / 0.538	- / 0.280	- / -	- / 0.280	- / 0.207	- / 0.365	- / 0.365	- / 0.390	- / -	- / 2.603	
3.3) Training Equip. ⁽⁹⁾	- / -	- / -	- / 2.240	- / 0.449	- / -	- / 0.449	- / -	- / -	- / -	- / 0.319	- / -	- / 3.008	
3.5) Other Support	- / -	- / -	- / 0.901	- / 0.501	- / -	- / 0.501	- / 0.607	- / 0.671	- / 0.622	- / 0.612	- / -	- / 3.914	
Subtotal: Support	- / 0.000	- / 1.108	- / 4.399	- / 1.530	- / -	- / 1.530	- / 1.004	- / 1.481	- / 1.432	- / 1.821	- / 0.000	- / 12.775	
Installation													
Modification Item 1 of 1: MQ-8 Payloads (OSIP 010-17)	- / 0.000	- / 0.000	- / 0.600	- / 0.617	- / 0.000	- / 0.617	- / 0.634	- / 0.651	- / 0.849	- / 0.930	- / 1.684	- / 5.965	
Subtotal: Installation	- / 0.000	- / -	- / 0.600	- / 0.617	- / -	- / 0.617	- / 0.634	- / 0.651	- / 0.849	- / 0.930	- / 1.684	- / 5.965	
Total													
Total Cost (Procurement + Support + Installation)	2.550	7.895	11.392	10.141	0.000	10.141	9.858	13.114	13.500	18.296	22.431	109.177	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0588 / MQ-8 Series										Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: MQ-8 Payloads (OSIP 010-17)																															
Manufacturer Information																															
Manufacturer Name: Leonardo MW - Radar (MQ-8C)															Manufacturer Location: Edinburgh, UK																
Administrative Leadtime (in Months): 5															Production Leadtime (in Months): 13																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Mar 2017				Mar 2018				Mar 2019				Mar 2020				Mar 2021				Mar 2022									
Delivery Dates		Mar 2018				Mar 2019				Mar 2020				Mar 2021				Mar 2022				Mar 2023									
Manufacturer Name: BAE - APKWS (MQ-8C)															Manufacturer Location: Greenlawn, NY																
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 3																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Depot (FRC):: Installation Name: MQ-8C Radar Upgrade II A Kits																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	4 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.600																		
FY 2018		- / -	- / -	- / -	4 / 0.617	0 / 0.000	4 / 0.617	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.617																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.634	- / -	- / -	- / -	0 / 0.000	4 / 0.634																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.651	- / -	- / -	0 / 0.000	4 / 0.651																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.849	- / -	0 / 0.000	5 / 0.849																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.930	2 / 0.684	5 / 1.614																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.000	6 / 1.000																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	4 / 0.600	4 / 0.617	0 / 0.000	4 / 0.617	4 / 0.634	4 / 0.651	5 / 0.849	3 / 0.930	8 / 1.684	32 / 5.965																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	2	2	-	-	2	2	-	-	2	2	-	-	2	2	-	1	2	2	-	-	1	2	8	32
Out	-	-	-	-	-	-	-	2	2	-	-	2	2	-	-	2	2	-	-	2	2	-	1	2	2	-	-	1	2	8	32

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: MQ-8 Payloads (OSIP 010-17)		
Installation Information		
Method of Implementation (Organic): MQ-8C Radar Upgrade II B Kits		Installation Quantity: 40
Method of Implementation (Organic): MQ-8C APKWS		Installation Quantity: 30
Footnotes: (6) The Radar A-Kit cost for FY19-FY22 was revised to align with proposed A-Kit costs from the Prime RADAR Integration Phase II proposal (contract in negotiations). The A-Kit cost increased due to the addition of Minotaur hardware to the A-Kit. (7) To align with Department priorities, the APKWS Weapons program start was deferred beyond the FYDP. NRE for an initial APKWS Weapons payload integration and installation procedures was added in FY23. Previously budgeted APKWS resources were realigned to MQ-8C radar efforts to support Fleet requirement to accelerate installations. (8) Non-recurring provides for engineering installation procedures for incorporating payloads into fielded air vehicles. (9) FY17 training requirements were consolidated to FY18 to support Radar A-kit cost updates and to align with availability of engineering data for trainer capability improvements. FY18-FY20 training increases support trainer device and maintenance course updates for Radar and Weapons capability improvements.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0589 / RQ-7 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: 0305233N				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	97.309	1.534	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	98.843
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	97.309	1.534	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	98.843
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	97.309	1.534	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	98.843
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line funds modifications to the RQ-7B Shadow Unmanned Aircraft System (UAS) and associated support systems. The RQ-7B Shadow UAS provides dedicated Reconnaissance, Surveillance and Target Acquisition, Intelligence, Battle Damage Assessment and Force Protection to the Marine Air-Ground Task Force. The RQ-7B Shadow UAS provides the Marine Expeditionary Force with critical battlefield intelligence and targeting information in the rapid cycle time required for success at the tactical level. The RQ-7B Shadow UAS consists of four air vehicles each configured with an Electro-Optical/Infra-Red sensor payload, launcher, ground control stations, attrition engine, support equipment, and Government furnished equipment, which includes power generation communications equipment, automated recovery equipment, remote video terminals, vehicle mounted shelters, and High Mobility Multipurpose Wheeled Vehicles with trailer(s). Each system is equipped with one maintenance section multifunctional vehicle and is supported by a mobile maintenance facility.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0589 / RQ-7 Series			
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: 0305233N		
Line Item MDAP/MAIS Code: N/A									

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / RQ-7 UAV Retrofits (OSIP 006-11) (Added Capability)				- / 97.309	- / 1.534	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 97.309	- / 1.534	- / 0.000	- / 0.000	- / 0.000	- / 0.000

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / RQ-7 UAV Retrofits (OSIP 006-11) (Added Capability)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 98.843
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 98.843

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0589 / RQ-7 Series				Modification Number / Title: 1 / RQ-7 UAV Retrofits (OSIP 006-11)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	97.309	1.534	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	98.843
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	97.309	1.534	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	98.843
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	97.309	1.534	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	98.843
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY2017 funding is being reallocated by HQMC to higher priority programs due to changes in the United States Marine Corps (USMC) Aviation Plan (AVPLAN) regarding Group III transition and fielding.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0589 / RQ-7 Series						Modification Number / Title: 1 / RQ-7 UAV Retrofits (OSIP 006-11)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: RQ-7B Shadow UAS				Modification Type: Added Capability				Related RDT&E PEs: 0305233N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> RQ-7 UAV Retrofits (OSIP 006-11)													
B Kits													
Recurring													
1.1.1) - Organic	67 / 96.738	- / 1.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 98.272	
<i>Subtotal: Recurring</i>	- / 96.738	- / 1.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 98.272	
Non-Recurring													
1.2.1) Installation Equipment N/R - Organic	- / 0.571	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.571	
<i>Subtotal: Non-Recurring</i>	- / 0.571	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.571	
<i>Subtotal: RQ-7 UAV Retrofits (OSIP 006-11)</i>	67 / 97.309	- / 1.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 98.843	
<i>Subtotal: Procurement, All Modification Items</i>	- / 97.309	- / 1.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 98.843	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	97.309	1.534	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	98.843	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0589 / RQ-7 Series	Modification Number / Title: 1 / RQ-7 UAV Retrofits (OSIP 006-11)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: RQ-7 UAV Retrofits (OSIP 006-11)		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: 212

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,163.807	249.072	228.321	214.820	0.000	214.820	328.288	326.507	516.116	544.466	3,301.006	6,872.403
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,163.807	249.072	228.321	214.820	0.000	214.820	328.288	326.507	516.116	544.466	3,301.006	6,872.403
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,163.807	249.072	228.321	214.820	0.000	214.820	328.288	326.507	516.116	544.466	3,301.006	6,872.403
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$40.000 million to account for the availability of prior year execution balances.

This line item funds modifications to the Navy's V-22 aircraft. The V-22 is a tilt rotor, Vertical/Short Takeoff and Landing (V/STOL) aircraft for Joint Service application. The Navy acts as the lead service with support from the United States Air Force (USAF) co-located in the V-22 Program Office. The V-22 Program is designed to provide an aircraft to meet the amphibious/vertical assault needs of the United States Marine Corps, the Carrier Onboard Delivery needs of the Navy, and the special operations needs of the USAF and United States Special Operations Command (USSOCOM). The MV-22 variant is replacing the CH-46E in the Marine Corps and the CMV-22 will replace the C-2A in the Navy. The CV-22 variant replaced the MH-53J, and is providing a new capability and augments the MC-130 in the USAF/USSOCOM inventory for special operations infiltration, exfiltration, and resupply missions. The V-22 is capable of flying over 2,100 nautical miles with a single refueling, giving the Services the advantage of a V/STOL aircraft able to rapidly self-deploy to any location in the world. This line item funds modifications in support of the 304 MV-22's in service by end of Fiscal Year (FY) 2018 and will support an additional 19 aircraft, for a total of 323 to be delivered through FY 2019.

The overall goal of the modifications budgeted in FY 2019 is to maintain commonality, implement structural safety and reliability improvements, and improve capability. These modifications will also improve readiness, increase aircraft availability, and decrease operating costs. FY 2019 focus will be on reducing flight hour costs, and improving Time On Wing, as reflected in the Readiness Operational Safety Improvement Program.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 212										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 1,032.174	- / 129.760	- / 77.616	- / 24.517	- / 0.000	- / 24.517
P-3a	2 / MV-22 Readiness (OSIP 028-12) (Reliability, Cost-per-flight hour, Reduction in Total Ownership cost)				- / 131.633	- / 38.349	- / 55.739	- / 38.914	- / 0.000	- / 38.914
P-3a	3 / Common Configuration (011-17) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 0.000	- / 80.963	- / 80.760	- / 75.040	- / 0.000	- / 75.040
P-3a	4 / Aerial Refueling (008-18) (Performance, Capability)				- / 0.000	- / 0.000	- / 14.206	- / 24.314	- / 0.000	- / 24.314
P-3a	5 / Avionics Improvements (009-19) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 0.000	- / 0.000	- / 0.000	- / 52.035	- / 0.000	- / 52.035
P-40	Total Gross/Weapon System Cost				- / 1,163.807	- / 249.072	- / 228.321	- / 214.820	- / 0.000	- / 214.820
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 9.992	- / 6.329	- / 5.086	- / 3.627	- / 16.486	- / 1,305.587
P-3a	2 / MV-22 Readiness (OSIP 028-12) (Reliability, Cost-per-flight hour, Reduction in Total Ownership cost)				- / 66.593	- / 71.042	- / 59.627	- / 80.679	- / 550.030	- / 1,092.606
P-3a	3 / Common Configuration (011-17) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 162.151	- / 166.244	- / 376.896	- / 384.933	- / 1,177.586	- / 2,504.573
P-3a	4 / Aerial Refueling (008-18) (Performance, Capability)				- / 23.813	- / 24.526	- / 24.591	- / 25.082	- / 115.899	- / 252.431
P-3a	5 / Avionics Improvements (009-19) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 65.739	- / 58.366	- / 49.916	- / 50.145	- / 1,441.005	- / 1,717.206
P-40	Total Gross/Weapon System Cost				- / 328.288	- / 326.507	- / 516.116	- / 544.466	- / 3,301.006	- / 6,872.403
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: MV-22 Correction of Deficiencies, Operational Safety Improvement Program (OSIP) 22-01, provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve MV-22 system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the MV-22 platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure within the MV-22 aircraft.										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 212		
ECPs addressing readiness degraders impacting MV-22 reliability, maintainability, availability, and cost per flight hour are captured under OSIP 28-12. This OSIP is established for the correction of readiness degraders impacting MV-22 cost per flight hour, Reliability, Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the V-22 Aircraft platform. OSIP 008-18 is established for the MV-22 Aerial Refueling System (VARS) Capability. The VARS is an initiative which will deliver the capability to aerial refuel F/A-18, F-35, AV-8B, V-22 and CH-53E aircraft from the V-22. This mission kit will significantly enhance the capabilities of deployed Marine Expeditionary Unit and Special Purpose Marine Air Ground Task Force Assets operating around the world. Additionally, VARS will provide needed relief to KC-130Js tasked with aerial refueling. OSIP 011-17 is established for the Modification of 129 Block B and 124 Block C MV-22B aircraft to a common production configuration in support of improved readiness (#1 POM-18 OAG Priority), achieving common configuration (Deputy Commandant for Aviation Goal), and reducing Life Cycle Cost. The reduction of future Operating and Support costs is achieved by the reduction of National Stock Numbers in the supply system, reduction of training and maintenance tasks in the Intelligent Electronic Technical Manuals, and reduction of Non-Recurring Engineering retrofit costs due to multiple aircraft configurations on future engineering changes. OSIP 009-19 is established to incorporate changes to V-22 Avionics systems, working in concert with the Technical Insertion (TI) schedule to reduce cost, improve coordination, yield common configurations, and improve ready based aircraft. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable V-22 force to sustain warfighter capability in support of worldwide operations.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,032.174	129.760	77.616	24.517	0.000	24.517	9.992	6.329	5.086	3.627	16.486	1,305.587
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,032.174	129.760	77.616	24.517	0.000	24.517	9.992	6.329	5.086	3.627	16.486	1,305.587
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,032.174	129.760	77.616	24.517	0.000	24.517	9.992	6.329	5.086	3.627	16.486	1,305.587
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
MV-22 Correction of Deficiencies provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve MV-22 system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the MV-22 platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure.

Current/Active ECPs:
Funds will be utilized to manage, process and incorporate ECPs and implement changes to sustain and improve MV-22 retrofit aircraft readiness, safety, mission availability, structural integrity and components reliability, maintainability and obsolescence conditions.
Funds are used to incorporate ECPs to correct emerging deficiencies of the airframe and integrated systems of the aircraft.
AVIONICS: Avionics modifications to the V-22 will improve display reliability, eliminate communication security issues and alleviate parts obsolescence/vendor problems. Changes to the V-22 avionics will include: Display System upgrade, Cockpit Inter Communication System modification, upgraded Mission Computer, updated Data Transfer Module, Control Display Unit/Engine Instrument Caution Advisory System upgrade, Control Display Unit Keyboard upgrade, and Avionics Interface Units upgrades. As well as Mission System Upgrade and Midwing Processing Unit obsolescence replacement. Software modifications are controlled by the functional requirements document (FRD) and introduced to the fleet for release every two years, or as needed based on emerging fleet requirements. Modifications to the various avionics software configuration items being incorporated into the fleet aircraft also require updates to the Collaborative Automated Maintenance Environment Optimized (CAMEO), Integrated Electronic Technical Manuals (IETMs); and mission planning. Specifically for the mission planning system, the V-22 Unique Planning Component (UPC) for the Joint Mission Planning System (JMPS) must implement frequent software updates in conjunction with production aircraft performance and software changes. Changes to the JMPS UPC in accordance with the FRD must include mission planning specific software regression tests to ensure proper operation and integration with other aircraft UPCs within JMPS.
POWER TRANSMISSION AND CONTROL: Changes to the V-22 Power Transmission and Control System will improve reliability and maintainability. Changes to the V-22 Power Transmission and Control System will include: swashplate reliability upgrades, engine gimbal ring/spherical bearing installation revision, updated refuel/defuel valve, bull gear shroud and engine gimbal ring.
COCKPIT: Changes to the V-22 cockpit will improve crew safety, mission suitability and overall reliability. Changes to the V-22 cockpit include: night vision goggle compatible hardware, upgraded inertial reels, upgraded pilot and co-pilot restraint system, throttle control lever soft stop modification, and improved rain removal.
STRUCTURAL: Structural changes to the V-22 will increase survivability, improve maintainability and aircraft availability, eliminate component interferences, improve suitability and correct safety related issues. Structural changes include: forward sponson fuel bladder access redesign/install powder panels, environmental control unit Ram air barrier filter, avionics left hand mounting tray, aft upper door strut, add manual drive decal, fold blades in high winds and modified trunnion fitting.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
RELIABILITY & MAINTAINABILITY FIXES: Includes Corrective Action Plans to make the aircraft compliant with Operation Requirements Document requirements. Communication, Navigation & Surveillance/Air Traffic Management (CNS/ATM): Modification to the V-22 will facilitate Federal Aviation Administration and International Civil Aviation Organization standards compliance in support of Next Gen initiatives. Such as Automatic Dependent Surveillance - Broadcast, Required Navigation Performance/Area Navigation, Identification Friend or Foe, Modernization and Global Positioning System (GPS) Modernization in relation to Correction of Deficiencies ECPs. ECP-708 Block A to Block B Upgrades: Upgrade Block A aircraft to Block B due to configuration changes required to meet mission requirements. Changes are associated with the aircraft Propulsion/Drive, Electrical, Avionics, Hydraulics, and Structure/Airframe. ECP-782 Block A to B ALE-47: Add a forward firing ALE-47 dispenser magazine for flares and chaff countermeasures. ECP-860: K-Voice and Data Recorder (KVADR) replaces the Government Furnished Equipment Flight Incident Recorder due to obsolescence issues and diminishing manufacturing sources for parts. Multifunction Display (MFD) and Advanced MFD: or flight displays in cockpit, thirty lb. weight savings, less cooling and power requirements, significant obsolescence avoided, greater pilot display capabilities. Blue Force Tracker (BFT) Block C MTX kits: Provides capability to communicate via established BFT network; providing aircraft current position and status to network subscribers (Joint Force Members) and to view other subscribers position and current status on graphic display. Incorporation will reduce fratricide risk and improve operational coordination. Blue Force Tracker (BFT) II Netted Weather: BFT II Netted Weather will supply an uninterrupted stream of weather and airspace information directly to the MV-22 cockpit via satellite. Cabin Situational Awareness Device: Allows communication and awareness between troops in transport with the pilots. V-22 Integrated Aircraft Survivability Equipment (IASE): Will correct deficiencies of the current RADAR warning system, replace the existing Missile Warning System, implement an active Infra-red countermeasure system, upgrade current countermeasures dispenser and provide integrated threat information on current aircraft main flight displays. Enhanced Crash Survivable Memory Unit (Cockpit Voice Recorder): To protect aircraft flight information and facilitate post-mishap investigations, a crash-survivable recorder capable of recording a/c parametric data and aircrew voice communications. FLIR: Upgrade to the Forward Looking Infrared (FLIR) System Electronics Unit (SEU) with an Enhanced Local Area Processing (ELAP) card to improve visibility for the pilot. Procurement of System Electronics Units (SEU's) for MV-22 aircraft being modified from Block A to Block B configuration. The SEU provides digital signal processing of the image obtained via the FLIR optics in the current FLIR unit, and passes the image data to the MV-22 mission computer. Traffic Collision Avoidance System (TCAS): Procurement of kits and installations of the Honeywell MILACAS-XR TCAS into MCOI-equipped MV-22 Block B and C aircraft. MILACAS-XR is identical to the TCAS system already in use aboard the CV-22, and will advise MV-22 pilots of other air traffic in proximity to the MV-22, as well as resolution advisories of what course to fly to avoid colliding with the threat aircraft. Gen 5 ARC-210 radio: provides LOS single-channel voice communication in the 30-88 MHz FM, 118-174 MHz AM/FM, and 225-400 MHz AM/FM bands, as well as LOS Single Channel Ground and Airborne System (SINCGARS) and Havequick voice communications and provides the aircrew secure military Ultra High Frequency (UHF) Satellite Communications (SATCOM). Each radio has a notch filter which filters out the commercial 88-108 FM band from interfering with radio communication. Iridium Antenna: Iridium Antenna is connected to the Troop Commander Station panel allowing ready access to the antenna by systems/equipment (such as brought on to the MV-22 for mission specific operations. Enables ground forces to have access to Distributed Tactical Communication Systems (DTCS) while aboard MV-22s. Digital Interoperability provides situational awareness, enhanced command and control, remote and operation of payloads, and tracking of Marines and cargo. It also allows for collaboration and cooperation in a Joint environment. Ramp Mounted Weapon System (RMWS), Provide an all quadrant Defensive Weapon System for the V-22. Rapid Ground Refueling (RGR): Procure RGR kits for Block A to B aircraft. ECP-559: Aircraft Maintenance Trainer (AMT): AMT #2, Improves training and pilot proficiency by incorporating modifications to the AMT #2 to reflect most current Block A and Block B aircraft configuration. ECP-803: AMT #3, Improves training and pilot proficiency by incorporating modifications to the AMT #3 to reflect most current Block A and Block B aircraft configuration. ECP-Training Equipment: Flight Training Device (FTD) UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FTD #1 to reflect most current aircraft configuration as directed by Blue Ribbon Panel. ECP-Training Equipment: Airframe Part Task Trainer, Incorporate Block 'B' configuration changes. ECP-Training Equipment: AMT #4, Improves training and pilot proficiency by incorporating modifications to the AMT #4 to reflect most current Block aircraft configuration. ECP-Training Equipment: Full Fidelity Simulator (FFS) UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FFS #1-4 to reflect most current aircraft configuration as directed by Blue Ribbon Panel. ECP-Training Equipment: FTD UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FTD #1-14 to reflect most current aircraft configuration as directed by Blue Ribbon Panel. ECP-Advanced Ballistic Stopping System (ABSS) mission kits for 60 SPMAGTF-CR aircraft to improve ballistic protection for personnel and passengers in the jump seat and cabin. The installed system is capable of stopping a		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
7.62X54R mm mild steel core round at a velocity of 2,560 feet per second. The system protects the jump seat, the entire cabin floor to include the loading ramp, and extends up the sidewall two feet. The system allows access to all existing aircraft tie down points and the cargo hook well doors. The ballistic material is segmented/modular to allow partial installation based on mission requirements Special Purpose Mag Task Force Digital Interoperability (DI)(Urgent Universal Needs Statement): Provides DI equipment, which will provide embarked troops and air crew Over The Horizon and Beyond Line of Sight Digital Data, Voice and Video information. Note: FY18 Funds realigned to fund increase in requirements for Common Configuration OSIP 11-17. This created reprioritization of requirements across OSIPs.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series			Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability					Related RDT&E PEs: 0604262N				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)												
A Kits												
Recurring												
1.1.1) BFT II Block C MTX Kits - Organic	36 / 0.292	19 / 0.159	4 / 0.034	4 / 0.035	- / -	4 / 0.035	- / -	- / -	- / -	- / -	- / -	63 / 0.520
1.1.2) Advanced MFD - NonOrganic	- / -	- / -	33 / 0.825	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.825
1.1.3) Block A to B - NonOrganic	27 / 124.687	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 124.687
1.1.4) Blk A to B ALE-47 - NonOrganic ⁽¹⁾	- / -	12 / 1.392	6 / 0.709	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 2.101
1.1.5) Digital Interoperability - MANGL - NonOrganic	- / -	- / -	15 / 5.940	15 / 6.059	- / -	15 / 6.059	- / -	- / -	- / -	- / -	- / -	30 / 11.999
1.1.6) Digital Interoperability - MANGL GFE - Organic	- / -	- / -	15 / 2.655	15 / 2.715	- / -	15 / 2.715	- / -	- / -	- / -	- / -	- / -	30 / 5.370
1.1.7) SPMAGTF UUNS DI - NonOrganic	- / -	30 / 11.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 11.640
1.1.8) Enhanced Crash Survivable Memory Unit (Cockpit Voice Recorder) - NonOrganic	147 / 4.489	- / -	48 / 1.881	12 / 0.479	- / -	12 / 0.479	50 / 2.035	48 / 1.991	35 / 1.479	- / -	- / -	340 / 12.354
1.1.9) FLIR ELAP - NonOrganic	- / -	50 / 2.609	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 2.609
1.1.10) Gen 5 Radio ARC 210 - Organic	- / -	10 / 0.910	5 / 0.463	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.373
1.1.11) Iridium Antenna - NonOrganic	- / -	51 / 0.103	48 / 0.099	48 / 0.101	- / -	48 / 0.101	48 / 0.102	48 / 0.105	48 / 0.107	48 / 0.109	- / -	339 / 0.726
1.1.12) KVADR GFE - Organic	201 / 3.672	40 / 0.720	40 / 0.733	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	281 / 5.125
1.1.13) MV-22 Advanced Ballistic Stopping System (ABSS) - Organic	30 / 8.000	30 / 8.740	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 16.740
1.1.14) Rapid Ground Refueling Blk A to B - NonOrganic	13 / 0.042	5 / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.059
1.1.15) Ramp Mounted Weapon System - NonOrganic (2)	18 / 1.170	30 / 0.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.233
1.1.16) Traffic Collision Avoidance System (TCAS) - NonOrganic	24 / 3.240	28 / 3.847	20 / 2.798	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 9.885
1.1.17) V-22 IASE CV2 - NonOrganic	48 / 29.772	- / -	12 / 7.881	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 37.653
1.1.18) Archived ECPs - Organic	5,650 / 367.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,650 / 367.021
Subtotal: Recurring	- / 542.385	- / 30.200	- / 24.018	- / 9.389	- / -	- / 9.389	- / 2.137	- / 2.096	- / 1.586	- / 0.109	- / 0.000	- / 611.920
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	- / 129.199	- / 18.356	- / 15.000	- / 2.000	- / -	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / 164.555
Subtotal: Non-Recurring	- / 129.199	- / 18.356	- / 15.000	- / 2.000	- / -	- / 2.000	- / -	- / -	- / -	- / -	- / 0.000	- / 164.555
B Kits												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series			Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability				Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Recurring												
2.1.1) Advanced MFD - Organic	- / -	- / -	33 / 3.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 3.363
2.1.2) RMWS Blk A to B - Organic	- / -	20 / 1.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.400
2.1.3) SPMAGTF UUNS DI MNM - Organic	- / -	30 / 30.402	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 30.402
2.1.4) Archived B Kits - Organic	79 / 18.770	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 18.770
Subtotal: Recurring	- / 18.770	- / 31.802	- / 3.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 53.935
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic	- / 0.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.577
Subtotal: Non-Recurring	- / 0.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.577
Subtotal: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	6,273 / 690.931	355 / 80.358	279 / 42.381	94 / 11.389	- / -	94 / 11.389	98 / 2.137	96 / 2.096	83 / 1.586	48 / 0.109	- / -	7,326 / 830.987
Subtotal: Procurement, All Modification Items	- / 690.931	- / 80.358	- / 42.381	- / 11.389	- / -	- / 11.389	- / 2.137	- / 2.096	- / 1.586	- / 0.109	- / 0.000	- / 830.987
Support (All Modification Items)												
3.2) Software Modifications ⁽³⁾	- / 3.187	- / 5.445	- / 1.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.302
3.3) Data	- / 1.384	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.384
3.4) Training Equipment ⁽⁴⁾	7 / 211.406	- / 12.101	- / 14.490	- / 0.200	- / -	- / 0.200	- / 0.205	- / 0.210	- / -	- / -	- / -	7 / 238.612
3.5) Support Equipment ⁽⁵⁾	- / 5.950	- / 2.538	- / 2.813	- / 3.240	- / -	- / 3.240	- / 0.372	- / 0.203	- / -	- / -	- / -	- / 15.116
3.6) ILS	- / 6.972	- / 0.125	- / 0.127	- / 0.130	- / -	- / 0.130	- / 0.132	- / 0.135	- / -	- / -	- / -	- / 7.621
3.7) Other Support	- / 48.283	- / 9.118	- / 9.283	- / 1.805	- / -	- / 1.805	- / 1.440	- / 1.277	- / 1.046	- / 1.017	- / 13.373	- / 86.642
3.8) Interim Contractor Support	- / 9.241	- / 0.381	- / 0.380	- / 0.280	- / -	- / 0.280	- / 0.080	- / -	- / -	- / -	- / -	- / 10.362
Subtotal: Support	- / 286.423	- / 29.708	- / 28.763	- / 5.655	- / -	- / 5.655	- / 2.229	- / 1.825	- / 1.046	- / 1.017	- / 13.373	- / 370.039
Installation												
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	- / 54.820	- / 19.694	- / 6.472	- / 7.473	- / 0.000	- / 7.473	- / 5.626	- / 2.408	- / 2.454	- / 2.501	- / 3.113	- / 104.561
Subtotal: Installation	- / 54.820	- / 19.694	- / 6.472	- / 7.473	- / -	- / 7.473	- / 5.626	- / 2.408	- / 2.454	- / 2.501	- / 3.113	- / 104.561
Total												
Total Cost (Procurement + Support + Installation)	1,032.174	129.760	77.616	24.517	0.000	24.517	9.992	6.329	5.086	3.627	16.486	1,305.587

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey			Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)							
Manufacturer Information							
Manufacturer Name: Rapid Ground Refueling Blk A to B				Manufacturer Location: Bell Boeing			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2017						
Delivery Dates	Apr 2018						
Manufacturer Name: Ramp Mounted Weapon System				Manufacturer Location: Crane, IN			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 20			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017						
Delivery Dates	Nov 2018						
Manufacturer Name: Multi Spectral Sensor				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates						Jan 2022	
Delivery Dates						Oct 2022	
Manufacturer Name: Main Landing Gear Fire Suppression				Manufacturer Location: Bell Boeing			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Blk A to B ALE-47				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018					
Delivery Dates	Oct 2017	Oct 2018					
Manufacturer Name: Block A to B				Manufacturer Location: Bell Boeing			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey			Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)		
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates							
Manufacturer Name: SPMAGTF UUNS DI				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 11				Production Leadtime (in Months): 1			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Aug 2017						
Delivery Dates	Sep 2017						
Manufacturer Name: Enhanced Standby Flight Instrument				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021		
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021		
Manufacturer Name: FLIR ELAP				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Aug 2017						
Delivery Dates	Oct 2017						
Manufacturer Name: Slim MFD				Manufacturer Location: Redstone, AL			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jun 2017	Jun 2018	Jun 2019				
Delivery Dates	Oct 2017	Oct 2018	Oct 2019				
Manufacturer Name: Digital Interoperability - MANGL				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Mar 2018	Mar 2019				
Delivery Dates		Oct 2018	Oct 2019				
Manufacturer Name: V-22 IASE (CV2)				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey			Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jan 2018					
Delivery Dates		Oct 2018					
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: Traffic Collision Avoidance System				Manufacturer Location: Bell Boeing			
Administrative Leadtime (<i>in Months</i>): 8				Production Leadtime (<i>in Months</i>): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	May 2017	May 2018					
Delivery Dates	Oct 2017	Oct 2018					
Manufacturer Name: Iridium Antenna				Manufacturer Location: Bell Boeing			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022	Nov 2023
Manufacturer Name: Advanced MFD				Manufacturer Location: Redstone, AL			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jan 2018					
Delivery Dates		Oct 2018					
Manufacturer Name: Enhanced Crash Survivable Memory Unit ⁽⁶⁾				Manufacturer Location: N/A			
Administrative Leadtime (<i>in Months</i>): 14				Production Leadtime (<i>in Months</i>): 26			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022	
Delivery Dates		Jan 2021	Jan 2022	Apr 2022	Apr 2023	Apr 2024	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: Advanced MFD

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	33 / 0.561	0 / 0.000	33 / 0.561	- / -	- / -	- / -	- / -	0 / 0.000	33 / 0.561
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	33 / 0.561	0 / 0.000	33 / 0.561	- / -	- / -	- / -	- / -	0 / 0.000	33 / 0.561

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	8	9	9	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33
Out	-	-	-	-	-	-	-	-	-	7	8	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Block A to B

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	22 / 50.348	4 / 8.722	1 / 2.220	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	27 / 61.290
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Block A to B

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	22 / 50.348	4 / 8.722	1 / 2.220	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	27 / 61.290

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	22	1	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27		
Out	19	1	1	1	1	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27		

Method of Implementation: Contractor Field Modification:: Installation Name: Blk A to B ALE-47

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	12 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.300
FY 2018	- / -	- / -	- / -	6 / 0.153	0 / 0.000	6 / 0.153	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.153
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	12 / 0.300	6 / 0.153	0 / 0.000	6 / 0.153	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.453

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey											Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)																															
Installation Information																															
Method of Implementation: Contractor Field Modification:: Installation Name: Blk A to B ALE-47																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
Out	-	-	-	-	-	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
Method of Implementation: Contractor Drive-in Mod:: Installation Name: Digital Interoperability																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		15 / 3.120		0 / 0.000		15 / 3.120		- / -		- / -		- / -		- / -		- / -		0 / 0.000		15 / 3.120					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		15 / 3.182		- / -		- / -		- / -		- / -		0 / 0.000		15 / 3.182					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		15 / 3.120		0 / 0.000		15 / 3.120		15 / 3.182		- / -		- / -		- / -		- / -		0 / 0.000		30 / 6.302					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	3	4	4	4	3	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Out	-	-	-	-	-	-	-	-	-	-	3	4	4	4	3	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	30

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: SPMAGTF UUNS DI

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	30 / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 6.000
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	30 / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 6.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Out	-	-	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Enhanced Crash Survivable Memory Unit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	22 / 0.836	- / -	48 / 1.891	12 / 0.482	0 / 0.000	12 / 0.482	50 / 2.045	15 / 0.624	- / -	- / -	0 / 0.000	147 / 5.878
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.377	15 / 0.642	- / -	0 / 0.000	48 / 2.019
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.504	- / -	0 / 0.000	12 / 0.504
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.893	29 / 1.217	0 / 0.000	50 / 2.110
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.861	29 / 1.218	48 / 2.079
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.470	35 / 1.470
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Enhanced Crash Survivable Memory Unit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	22 / 0.836	- / -	48 / 1.891	12 / 0.482	0 / 0.000	12 / 0.482	50 / 2.045	48 / 2.001	48 / 2.039	48 / 2.078	64 / 2.688	340 / 14.060

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	22	-	-	-	-	13	13	11	11	3	3	3	3	12	12	13	13	15	11	11	11	15	12	10	11	15	14	12	7	64	340
Out	22	-	-	-	-	13	13	11	11	3	3	3	3	12	12	13	13	15	11	11	11	15	12	10	11	15	14	12	7	64	340

Method of Implementation: Contractor Field Modification:: Installation Name: FLIR ELAP

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	50 / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	50 / 0.616
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	50 / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	50 / 0.616

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: FLIR ELAP

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	12	13	13	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
Out	-	-	-	-	-	12	13	13	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50

Method of Implementation: Contractor Field Modification:: Installation Name: Iridium Antenna

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	51 / 0.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	51 / 0.408
FY 2018	- / -	- / -	- / -	48 / 0.391	0 / 0.000	48 / 0.391	- / -	- / -	- / -	- / -	0 / 0.000	48 / 0.391
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.399	- / -	- / -	- / -	0 / 0.000	48 / 0.399
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.407	- / -	- / -	0 / 0.000	48 / 0.407
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.415	- / -	0 / 0.000	48 / 0.415
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.423	0 / 0.000	48 / 0.423
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.425	48 / 0.425
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	51 / 0.408	48 / 0.391	0 / 0.000	48 / 0.391	48 / 0.399	48 / 0.407	48 / 0.415	48 / 0.423	48 / 0.425	339 / 2.868

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	12	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	48	339	
Out	-	-	-	-	-	12	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	48	339	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Rapid Ground Refueling Blk A to B

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	10 / 0.083	- / -	3 / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	13 / 0.108
FY 2017	- / -	- / -	5 / 0.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.044
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 0.083	- / -	8 / 0.069	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.152

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	10	-	-	-	-	2	1	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
Out	7	3	-	-	-	-	2	1	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18

Method of Implementation: Navy Field Modification:: Installation Name: Ramp Mounted Weapon System

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	18 / 0.540	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.540
FY 2017	- / -	- / -	- / -	30 / 0.060	0 / 0.000	30 / 0.060	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.060
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Navy Field Modification:: Installation Name: Ramp Mounted Weapon System

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	18 / 0.540	- / -	30 / 0.060	0 / 0.000	30 / 0.060	- / -	- / -	- / -	- / -	0 / 0.000	48 / 0.600

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	6	6	6	-	-	-	-	7	8	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
Out	-	-	-	6	6	6	-	-	-	7	8	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Traffic Collision Avoidance System (TC)

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	24 / 0.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.815
FY 2017	- / -	- / -	28 / 0.968	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	28 / 0.968
FY 2018	- / -	- / -	- / -	20 / 0.830	0 / 0.000	20 / 0.830	- / -	- / -	- / -	- / -	0 / 0.000	20 / 0.830
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	24 / 0.815	28 / 0.968	20 / 0.830	0 / 0.000	20 / 0.830	- / -	- / -	- / -	- / -	0 / 0.000	72 / 2.613

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey											Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)																															
Installation Information																															
Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Traffic Collision Avoidance System (TC)																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	6	6	6	6	7	7	7	7	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
Out	-	-	6	6	6	6	7	7	7	7	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
Method of Implementation: Contractor Drive-in Mod:: Installation Name: IASE CV2																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		24 / 3.553		24 / 3.617		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		48 / 7.170							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		12 / 1.876		0 / 0.000		12 / 1.876		- / -		- / -		- / -		- / -		0 / 0.000		12 / 1.876							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		24 / 3.553		24 / 3.617		- / -		12 / 1.876		0 / 0.000		12 / 1.876		- / -		- / -		- / -		- / -		0 / 0.000		60 / 9.046							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	24	6	6	6	6	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
Out	16	8	6	6	6	6	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
Method of Implementation (Organic): BFT II Block C MTX Kits																															
																							Installation Quantity: 63								
Method of Implementation (Organic): Digital Interoperability - MANGL GFE																															
																							Installation Quantity: 30								

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)		
Installation Information		
Method of Implementation (Organic): Gen 5 Radio ARC 210		Installation Quantity: 15
Method of Implementation (Organic): KVADR GFE		Installation Quantity: 281
Method of Implementation (Organic): MV-22 Advanced Ballistic Stopping System (ABSS)		Installation Quantity: 60
Method of Implementation (Organic): Archived ECPs - Not Installed		Installation Quantity: 5650
Method of Implementation (Organic): Advanced MFD		Installation Quantity: 33
Method of Implementation (Organic): RMWS Blk A to B		Installation Quantity: 20
Method of Implementation (Organic): SPMAGTF UUNS DI MNM		Installation Quantity: 30
Method of Implementation (Organic): Archived B Kits - Not Installed		Installation Quantity: 79
Footnotes: ⁽¹⁾ Blk A to B ALE-47: Was previously archived, need to procure additional kits to retrofit Blk A to B aircraft. ⁽²⁾ Ramp Mounted Weapon System: Need to procure additional kits to retrofit Blk A to B aircraft not previously done. ⁽³⁾ Software Modifications: FY19 and out moved to OSIP 009-19. ⁽⁴⁾ Training Equipment: FY19 Training Requirements captured in OSIP 009-19. ⁽⁵⁾ Support Equipment: FY19 growth due to Advanced MFD Support Equipment requirement. ⁽⁶⁾ Production Lead Time for FY18, FY19 is 26 months. Production Lead Time for FY20-22 is 17 months.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	131.633	38.349	55.739	38.914	0.000	38.914	66.593	71.042	59.627	80.679	550.030	1,092.606
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	131.633	38.349	55.739	38.914	0.000	38.914	66.593	71.042	59.627	80.679	550.030	1,092.606
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	131.633	38.349	55.739	38.914	0.000	38.914	66.593	71.042	59.627	80.679	550.030	1,092.606
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) 28-12 is established for the correction of readiness degraders impacting MV-22 cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the V-22 Aircraft platform.

CURRENT/ACTIVE Engineering Change Proposals (ECPs):

Funds will be utilized to manage, process and incorporate ECPs and implement changes to sustain and improve MV-22 retrofit aircraft readiness, safety, mission availability, structural integrity and components reliability, maintainability and obsolescence conditions.

Funds are used to incorporate ECPs to improve readiness and availability of the aircraft.

APU K8/K9 Improvement: Improve power distribution contactors K8 and K9 that provide power during Auxiliary Power Unit (APU) starts. This change will provide appropriately-rated contactors to prevent damage to the APU, other power distribution components, and the aircraft.

Drive Tube: This effort will redesign drive tube which will eliminate an O level recurring inspection as it will decrease stresses at the lower end without affecting the interface with the mast.

Ice Protection System (IPS): Strengthens component parts which have been prone to stress failures or fraying, Central De-ice Device and Nacelle Ice Protection Control Unit / Master Ice Protection Controller.

Engine Air Particle Separator (EAPS): Start Valve Block A/B/10 Improvements to the Start Circuit side of the EAPS Start Valve Module, will provide for increase reliability.

EAPS Fire Door Actuator: To field an improved, more reliable actuator for EAPS doors and Nacelle Fire Door, improving reliability of EAPS system and nacelle fire protection system, and reducing sand ingestion into the engine.

V-22 Prop Rotor Gear Box (PRGB) Input Quill/Clutch Redesign: To eliminate resident issues with Input Quill and clutch and to Purge Fleet of Thin Densd Chrome.

Aircraft Bus Tie Circuit Reliability Improvement to provide the ability to power all buses with a battery start of the APU in the presence of a failed Regulated Converter.

Rudder Attachment Reliability Improvement: upgrade to bearings associated with the rear rudder.

Upper and Lower Rod Ends Redesign to prevent excessive wear from normal proprotor operation.

Gimbal Ring Joint will increase mean time between failures of the swashplate and hub assembly (which includes the gimbal assembly).

Nose Landing Gear: Improvements in 3 major areas of the nose landing gear mechanisms are proposed, these include: Increase Mechanism Spring Moments, Reducing Torque Tube Pivot Friction and Revising the Mechanism Stops to improve reliability and rigging.

PRGB Atmospheric Protection and Mast Seal Improvement: This initiative reduces corrosion related removals due to water intrusion.

Drive Link/Hub Spring Change: The drive link and hub spring are critical components of the Proprotor Hub Assembly. This effort will reduce the the current safety risk and improve readiness of aircraft.

Engine Thermo Couple Wire Harness: This ECP is a safety issue. This purpose of this change is to replace the copper wire with thermocouple wire (Chromel-Alumel material) and eliminate a source of Measured Gas Temperature calculation errors.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Mission Computer Obsolescence Initiative (MCOI) Retrofit for BLK C: MCOI replaces several components and allows planned capabilities to operate without memory processing power or memory storage. Has a positive Return on Investment compared too many other costs that would be absorbed (avoidance). ECP-716: Infra-Red Suppressor Redesign, Provide a more reliable configuration to items that have contributed to poor system reliability and identify a repair kit for the aircraft Infra-Red Suppressor system. Infra-red Suppressor (IRS) Improvements: To improve the reliability of the IRS components. The IRS system consists of five major component groups, four of which are major degraders to MV-22 readiness. Funding will incorporate reliability improvements in the Transition Duct, Centerbody, Side Panel, and Coanda Tube components of the IRS. Improvements are required to allow IRS components to better withstand high heat and friction environment of the IRS system. Nacelle Blower Improvement: Will incorporate improved impeller material and forming process changing material from A357-T6 cast aluminum to 2024-T851 machined aluminum plate - leading to more uniform grain structure and higher resistance to stress failure and ball bearing material changing from stainless steel to silicon nitride (Si3N4-ceramic) and inner / outer rings changed to Cronidur 30 to mitigate corrosion. Manual Override Switches for Environmental Bus Contractors. O2N2 Sieve Beds: A correction to the current O2N2 Concentrator sieve beds is required to address loss of sieve material pre-load and the resulting loss of function and potential sieve material escapements into the oxygen and nitrogen distribution system, a potential health hazard. Aft Sponson Fuel Tank: This improvement will increase combat range and endurance of the MV-22 and enable accomplishment of the Rapid Ground Refueling (RGR) mission with a single aircraft, greatly enhancing support to the Marine Air Ground Task Force during expeditionary operations. Aft Sponson Fuel Tank & Main Landing Gear Bay Fire Suppression System (FSS): This improvement will increase combat range and endurance of the MV-22 and enable accomplishment of the RGR mission with a single aircraft, greatly enhancing support to the Marine Air Ground Task Force during expeditionary operations. The kit will also increase FSS protection in the Aft Sponson Bay and Main Landing Gear Bays of the standard V-22. MV-22 Prop-Rotor Blade Improvements: Incorporate Readiness upgrades to improve Prop Rotor Blades such as an erosion protection system. Shaft Driven Compressor (SDC): Modify the SDC gear train to eliminate high cycle fatigue that leads to early failure of SDC impeller and incorporate improvements to gears and seals. Conversion Area Harness: Increase reliability of the Conversion Area Harness by upgrading the harness, wire type, ribbons and connectors. FUTURE ECPs: Electrical System Upgrade and reliability improvement effort. Increased V-22 electrical system reliability and capacity is required to accommodate demands on electrical power system as additional systems are added to the V-22. Electrical System Re-Design GCU Relocation: Integrates a new Variable Frequency Generator with a separate microprocessor GCU. Modular Avionics: Will improve readiness and fleet capability through rapid technology transition by use of open architecture avionics. Swashplate Actuator: Will incorporate engineering for several reliability, safety and life improvements to the current Swashplate Servoactuator. Troop Seat Retrofit: Troop Seat retrofit/improvement would upgrade the troop seat from a -507 to a -509 configuration. Note: FY18 Funds realigned to fund increase in requirements for Common Configuration OSIP 11-17. This created reprioritization of requirements across OSIPs.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series			Modification Type: Reliability, Cost-per-flight hour, Reduction in Total Ownership cost					Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)													
A Kits													
Recurring													
1.1.1) AC Bus Tie Circuit Reliability Improvement - NonOrganic	137 / 0.536	48 / 0.230	50 / 0.245	48 / 0.239	- / -	48 / 0.239	48 / 0.243	48 / 0.247	15 / 0.079	- / -	- / -	394 / 1.819	
1.1.2) APU K8/K9 Improvement - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.293	48 / 0.299	48 / 0.304	48 / 0.310	149 / 0.981	341 / 2.187	
1.1.3) Conversion Area Harness - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	36 / 5.502	24 / 3.738	24 / 3.809	24 / 3.881	242 / 39.882	350 / 56.812	
1.1.4) Drive Link/Prop Rotor Hub Spring Change - NonOrganic	- / -	- / -	36 / 4.100	60 / 6.963	- / -	60 / 6.963	60 / 7.095	60 / 7.230	57 / 6.999	24 / 3.003	- / -	297 / 35.390	
1.1.5) Drive Tube - NonOrganic	- / -	- / -	60 / 2.615	60 / 2.665	- / -	60 / 2.665	60 / 2.715	60 / 2.767	57 / 2.679	- / -	- / -	297 / 13.441	
1.1.6) EAPS Fire Door Actuator - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	60 / 7.920	60 / 8.070	60 / 8.224	60 / 8.380	118 / 16.794	358 / 49.388	
1.1.7) EAPS Start Valve Block A/B/C/10 Organic - Organic	- / -	36 / 0.432	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.432	
1.1.8) Engine Thermo Couple Wire Harness - NonOrganic	41 / 0.623	- / -	48 / 0.753	48 / 0.767	- / -	48 / 0.767	48 / 0.781	48 / 0.796	50 / 0.845	- / -	- / -	283 / 4.565	
1.1.9) Gimbal Ring Joint - NonOrganic	- / -	- / -	- / -	24 / 0.970	- / -	24 / 0.970	24 / 0.988	24 / 1.007	24 / 1.026	24 / 1.045	161 / 6.882	281 / 11.918	
1.1.10) IPS (CDD) - NonOrganic	100 / 19.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 19.796	
1.1.11) IPS (CDD/NIPCU) - NonOrganic ⁽⁷⁾	2 / 0.446	4 / 0.908	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.354	
1.1.12) IPS (CDD/NIPCU) Organic - Organic	44 / 3.584	4 / 1.079	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 4.663	
1.1.13) Infra-Red Suppressor Upgrade - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 9.000	2 / 3.060	20 / 31.212	208 / 330.772	236 / 374.044	
1.1.14) Manual Override Switches for Environmental Bus - NonOrganic	- / -	- / -	60 / 0.012	60 / 0.012	- / -	60 / 0.012	60 / 0.012	60 / 0.012	60 / 0.013	- / -	- / -	300 / 0.061	
1.1.15) MCOI Retrofit BLK C - NonOrganic	23 / 4.069	- / -	24 / 4.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 8.369	
1.1.16) Nacelle Blower - Organic	- / -	- / -	100 / 0.536	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.536	
1.1.17) Nose Landing Gear Door Mechanism - NonOrganic	96 / 0.491	- / -	5 / 0.033	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	101 / 0.524	
1.1.18) O2N2 Sieve Bed Kits - Organic	- / -	12 / 0.288	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.288	
1.1.19) PRGB Atmospheric Protection and Mast Seal Improvement - Organic	68 / 0.211	68 / 0.218	68 / 0.222	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	204 / 0.651	
1.1.20) Rudder Attachment Reliability Improvement - NonOrganic	126 / 1.992	60 / 0.216	60 / 0.220	13 / 0.048	- / -	13 / 0.048	- / -	- / -	- / -	- / -	- / -	259 / 2.476	
1.1.21) Shaft Driven Compressor - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.440	48 / 1.467	48 / 1.495	206 / 6.545	350 / 10.947	
1.1.22) Upper and Lower Rod Ends - Organic	- / -	- / -	- / -	- / -	- / -	- / -	48 / 9.098	40 / 7.725	24 / 4.723	24 / 4.813	162 / 32.520	298 / 58.879	

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series			Modification Type: Reliability, Cost-per-flight hour, Reduction in Total Ownership cost				Related RDT&E PEs: 0604262N						
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.23) V-22 PRGB Input Quill/Clutch Redesign - Organic	- / -	- / -	- / -	- / -	- / -	- / -	120 / 6.114	120 / 6.230	60 / 3.174	60 / 3.235	7 / 0.385	367 / 19.138	
1.1.24) VFG GCU Update - Organic	- / -	- / -	96 / 3.744	96 / 3.819	- / -	96 / 3.819	91 / 3.692	- / -	- / -	- / -	- / -	283 / 11.255	
1.1.25) Aft Sponson Fuel Tank - NonOrganic	33 / 3.947	15 / 1.706	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 5.653	
1.1.26) Aft Sponson & MLGB FSS - NonOrganic	- / -	- / -	24 / 2.880	24 / 2.938	- / -	24 / 2.938	24 / 2.996	24 / 3.056	24 / 3.117	24 / 3.180	153 / 19.873	297 / 38.040	
1.1.27) Archived ECPs - Organic	2,762 / 40.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,762 / 40.138	
Subtotal: Recurring	- / 75.833	- / 5.077	- / 19.660	- / 18.421	- / -	- / 18.421	- / 47.449	- / 51.617	- / 39.519	- / 60.554	- / 454.634	- / 772.764	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 20.580	- / 21.000	- / 11.331	- / 1.399	- / -	- / 1.399	- / -	- / -	- / -	- / -	- / -	- / 54.310	
Subtotal: Non-Recurring	- / 20.580	- / 21.000	- / 11.331	- / 1.399	- / -	- / 1.399	- / -	- / -	- / -	- / -	- / 0.000	- / 54.310	
B Kits													
Recurring													
2.1.1) MCOI Retrofit BLK C IAP B-Kits - Organic	23 / 6.440	- / -	24 / 6.963	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 13.403	
2.1.2) MCOI Retrofit BLK C DTU B-Kits - Organic ⁽⁸⁾	- / -	- / -	24 / 1.176	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.176	
Subtotal: Recurring	- / 6.440	- / -	- / 8.139	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 14.579	
Subtotal: MV-22 Readiness (OSIP 028-12)	3,455 / 102.853	247 / 26.077	679 / 39.130	433 / 19.820	- / -	433 / 19.820	727 / 47.449	670 / 51.617	553 / 39.519	356 / 60.554	1,406 / 454.634	8,526 / 841.653	
Subtotal: Procurement, All Modification Items	- / 102.853	- / 26.077	- / 39.130	- / 19.820	- / -	- / 19.820	- / 47.449	- / 51.617	- / 39.519	- / 60.554	- / 454.634	- / 841.653	
Support (All Modification Items)													
3.3) Data	- / 1.245	- / 0.200	- / 0.242	- / 0.246	- / -	- / 0.246	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.580	- / 3.313	
3.4) Training Equipment ⁽⁹⁾	- / 0.115	- / 0.123	- / 0.267	- / 0.223	- / -	- / 0.223	- / 0.227	- / 0.232	- / 0.236	- / 0.241	- / 3.100	- / 4.764	
3.5) Support Equipment	- / 0.732	- / 0.759	- / 0.772	- / 0.775	- / -	- / 0.775	- / 0.789	- / 0.803	- / 0.816	- / 0.826	- / 4.085	- / 10.357	
3.6) ILS	- / -	- / 0.505	- / 0.514	- / 0.251	- / -	- / 0.251	- / 0.165	- / 0.168	- / 0.171	- / 0.175	- / 2.750	- / 4.699	
3.7) Other Support	- / 23.612	- / 9.348	- / 9.670	- / 9.863	- / -	- / 9.863	- / 10.061	- / 10.262	- / 10.467	- / 10.676	- / 52.335	- / 146.294	
Subtotal: Support	- / 25.704	- / 10.935	- / 11.465	- / 11.358	- / -	- / 11.358	- / 11.442	- / 11.665	- / 11.890	- / 12.118	- / 62.850	- / 169.427	
Installation													
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)	- / 3.076	- / 1.337	- / 5.144	- / 7.736	- / 0.000	- / 7.736	- / 7.702	- / 7.760	- / 8.218	- / 8.007	- / 32.546	- / 81.526	
Subtotal: Installation	- / 3.076	- / 1.337	- / 5.144	- / 7.736	- / -	- / 7.736	- / 7.702	- / 7.760	- / 8.218	- / 8.007	- / 32.546	- / 81.526	
Total													
Total Cost (Procurement + Support + Installation)	131.633	38.349	55.739	38.914	0.000	38.914	66.593	71.042	59.627	80.679	550.030	1,092.606	

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey			Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)							
Manufacturer Information							
Manufacturer Name: MCOI Retrofit BLK C				Manufacturer Location: Redstone, AL			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 10			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Dec 2017					
Delivery Dates		Oct 2018					
Manufacturer Name: AC Bus Tie Circuit Reliability Improvement				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jul 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022	
Delivery Dates	Oct 2017	Sep 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	
Manufacturer Name: Infra-Red Suppressor Upgrade				Manufacturer Location: Bell Boeing			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 10			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Dec 2020	Dec 2021	Dec 2022
Delivery Dates					Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: Conversion Area Harness				Manufacturer Location: Bell Boeing			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates				Feb 2020	Feb 2021	Feb 2022	Feb 2023
Manufacturer Name: Nose Landing Gear Door Mechanism				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 13			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Dec 2017					
Delivery Dates		Jan 2019					
Manufacturer Name: APU K8/K9 Improvement				Manufacturer Location: Not Specified..			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 10			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Jan 2020	Jan 2021	Jan 2022	Jan 2023

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey			Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)							
Manufacturer Information							
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Delivery Dates				Nov 2020	Nov 2021	Nov 2022	Nov 2023
Manufacturer Name: Drive Tube / Drive Link / Gimbal Ring				Manufacturer Location: Bell Boeing			
Administrative Leadtime <i>(in Months)</i> : 2				Production Leadtime <i>(in Months)</i> : 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates		Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022	Nov 2023
Manufacturer Name: IPS (CDD/NIPCU) & IPS CDD				Manufacturer Location: N/A			
Administrative Leadtime <i>(in Months)</i> : 2				Production Leadtime <i>(in Months)</i> : 13			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Nov 2016						
Delivery Dates	Dec 2017						
Manufacturer Name: Rudder Attachment Reliability Improvement				Manufacturer Location: N/AN/A			
Administrative Leadtime <i>(in Months)</i> : 1				Production Leadtime <i>(in Months)</i> : 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018				
Delivery Dates	Nov 2018	Nov 2018	Nov 2019				
Manufacturer Name: Engine Thermo Couple Wire Harness				Manufacturer Location: Bell Boeing			
Administrative Leadtime <i>(in Months)</i> : 4				Production Leadtime <i>(in Months)</i> : 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	
Delivery Dates		Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	
Manufacturer Name: Manual Override Switches for Environmental Bus				Manufacturer Location: N/A			
Administrative Leadtime <i>(in Months)</i> : 4				Production Leadtime <i>(in Months)</i> : 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	
Delivery Dates		Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	
Manufacturer Name: Aft Sponson Fuel Tank & /MLGB FSS				Manufacturer Location: Bell Boeing			
Administrative Leadtime <i>(in Months)</i> : 6				Production Leadtime <i>(in Months)</i> : 7			

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)												
Manufacturer Information												
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates	Jun 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023					
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023					
Manufacturer Name: EAPS Fire Door Actuator				Manufacturer Location: Bell Boeing								
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 8								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates				Mar 2020	Mar 2021	Mar 2022	Mar 2023					
Delivery Dates				Nov 2020	Nov 2021	Nov 2022	Nov 2023					
Manufacturer Name: Shaft Driven Compressor				Manufacturer Location: Bell Boeing								
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7								
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates					Mar 2021	Mar 2022	Mar 2023					
Delivery Dates					Oct 2021	Oct 2022	Oct 2023					
Installation Information												
Method of Implementation: Contractor Field Modification:: Installation Name: AC Bus Tie Circuit Reliability Improvement												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	88 / 0.356	49 / 0.284	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	137 / 0.640
FY 2017	- / -	- / -	48 / 0.279	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	48 / 0.279
FY 2018	- / -	- / -	2 / 0.010	48 / 0.283	0 / 0.000	48 / 0.283	- / -	- / -	- / -	- / -	0 / 0.000	50 / 0.293
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.288	- / -	- / -	- / -	0 / 0.000	48 / 0.288
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.294	- / -	- / -	0 / 0.000	48 / 0.294
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.299	- / -	0 / 0.000	48 / 0.299
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.095	0 / 0.000	15 / 0.095
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	88 / 0.356	49 / 0.284	50 / 0.289	48 / 0.283	0 / 0.000	48 / 0.283	48 / 0.288	48 / 0.294	48 / 0.299	15 / 0.095	0 / 0.000	394 / 2.188

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey											Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)													
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:																		
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)																																			
Installation Information																																			
Method of Implementation: Contractor Field Modification:: Installation Name: AC Bus Tie Circuit Reliability Improvement																																			
Installation Schedule																																			
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot				
In	88	12	12	13	12	12	12	12	14	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	8	7	-	-	-	394
Out	66	22	12	12	13	12	12	12	12	26	12	12	12	-	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	8	7	-	-	394
Method of Implementation: Contractor Drive In Mod:: Installation Name: APU K8/K9 Improvement																																			
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																						
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																					
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.432	- / -	- / -	0 / 0.000	48 / 0.432																					
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.440	- / -	0 / 0.000	48 / 0.440																					
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.449	0 / 0.000	48 / 0.449																						
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.458	48 / 0.458																						
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	149 / 1.418	149 / 1.418																						
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.432	48 / 0.440	48 / 0.449	197 / 1.876	341 / 3.197																					
Installation Schedule																																			
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	12	12	12	12	197	341				
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	12	12	12	209	341				
Method of Implementation: Contractor Forced Retrofit:: Installation Name: Conversion Area Harness																																			
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																						
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																					
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																						

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)									
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Forced Retrofit:: Installation Name: Conversion Area Harness

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	36 / 1.467	- / -	- / -	- / -	0 / 0.000	36 / 1.467
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.997	- / -	- / -	0 / 0.000	24 / 0.997
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.016	- / -	0 / 0.000	24 / 1.016
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.035	0 / 0.000	24 / 1.035
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	242 / 10.635	242 / 10.635
Total	- / -	- / -	- / -	- / -	- / -	- / -	36 / 1.467	24 / 0.997	24 / 1.016	24 / 1.035	242 / 10.635	350 / 15.150

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	14	14	-	4	10	10	-	4	10	10	-	4	10	10	242	350
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	14	14	-	4	10	10	-	4	10	10	-	4	10	10	242	350

Method of Implementation: Contractor Drive In Mod:: Installation Name: Drive Link / Drive Tube/Gimbal Ring Joint

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	96 / 2.105	0 / 0.000	96 / 2.105	- / -	- / -	- / -	- / -	0 / 0.000	96 / 2.105
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	144 / 4.032	- / -	- / -	- / -	0 / 0.000	144 / 4.032
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 4.109	- / -	- / -	0 / 0.000	144 / 4.109
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 4.187	- / -	0 / 0.000	144 / 4.187
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 4.115	0 / 0.000	138 / 4.115
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.008	48 / 2.008
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	161 / 8.539	161 / 8.539
Total	- / -	- / -	- / -	96 / 2.105	0 / 0.000	96 / 2.105	144 / 4.032	144 / 4.109	144 / 4.187	138 / 4.115	209 / 10.547	875 / 29.095

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy															Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey										Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)						

ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:											

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Drive In Mod:: Installation Name: Drive Link / Drive Tube/Gimbal Ring Joint

Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	24	24	24	24	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	30	209	875
Out	-	-	-	-	-	-	-	-	-	-	24	24	24	24	36	36	36	36	36	36	36	36	36	36	36	36	36	36	245	875	

Method of Implementation: Contractor Field Mod:: Installation Name: EAPS Fire Door Actuator

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.173	- / -	- / -	0 / 0.000	60 / 0.173
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.176	- / -	0 / 0.000	60 / 0.176
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.180	0 / 0.000	60 / 0.180
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.183	60 / 0.183
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	118 / 0.361	118 / 0.361
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.173	60 / 0.176	60 / 0.180	178 / 0.544	358 / 1.073

Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	15	15	15	15	178	358
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	15	15	15	193	358

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Engine Thermo Couple Wire Harness

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	1 / 0.018	40 / 0.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	41 / 0.752

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy				Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey		Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)			
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:				

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Engine Thermo Couple Wire Harness

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	48 / 0.897	0 / 0.000	48 / 0.897	- / -	- / -	- / -	- / -	0 / 0.000	48 / 0.897
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.914	- / -	- / -	- / -	0 / 0.000	48 / 0.914
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.932	- / -	- / -	0 / 0.000	48 / 0.932
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.949	- / -	0 / 0.000	48 / 0.949
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 1.008	0 / 0.000	50 / 1.008
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 0.018	40 / 0.734	48 / 0.897	0 / 0.000	48 / 0.897	48 / 0.914	48 / 0.932	48 / 0.949	50 / 1.008	0 / 0.000	283 / 5.452

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	1	-	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	12	-	283	
Out	-	-	-	-	1	-	10	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	12	12	283

Method of Implementation: Contractor Field Mod Team:: Installation Name: IPS CDD/NIPCU

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	97 / 0.659	5 / 0.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	102 / 0.844
FY 2017	- / -	- / -	4 / 0.151	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.151
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	97 / 0.659	5 / 0.185	4 / 0.151	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	106 / 0.995

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey												Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: IPS CDD/NIPCU																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	97	2	2	1	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106
Out	97	-	2	2	1	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106
Method of Implementation: Contractor Field Mod:: Installation Name: Infra-Red Suppressor Upgrade																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		6 / 0.072		- / -		0 / 0.000		6 / 0.072					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 0.024		0 / 0.000		2 / 0.024					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		20 / 0.250		20 / 0.250					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		208 / 2.496		208 / 2.496					
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		6 / 0.072		2 / 0.024		228 / 2.746		236 / 2.842					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	1	1	-	-	228	236
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	1	1	-	228	236
Method of Implementation: Contractor Field Modification:: Installation Name: Manual Override Switches for Environmental Bus																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																				Date: February 2018													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey										Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)													
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																		
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)																																	
Installation Information																																	
Method of Implementation: Contractor Field Modification:: Installation Name: Manual Override Switches for Environmental Bus																																	
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																				
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	60 / 0.180	0 / 0.000	60 / 0.180	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.180	- / -																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.183	- / -	- / -	- / -	0 / 0.000	60 / 0.183	- / -																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.187	- / -	- / -	0 / 0.000	60 / 0.187	- / -																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.190	- / -	0 / 0.000	60 / 0.190	- / -																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.194	0 / 0.000	60 / 0.194	- / -																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		- / -	- / -	- / -	60 / 0.180	0 / 0.000	60 / 0.180	60 / 0.183	60 / 0.187	60 / 0.190	60 / 0.194	0 / 0.000	300 / 0.934																				
Installation Schedule																																	
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023							
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Total		
In	-	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	-	300		
Out	-	-	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	-	15	15	15	30	300	
Method of Implementation: Contractor Field Mod Team:: Installation Name: MCOI Retrofit																																	
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																				
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years		- / -	- / -	23 / 2.553	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	23 / 2.553	- / -																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	24 / 2.715	0 / 0.000	24 / 2.715	- / -	- / -	- / -	- / -	0 / 0.000	24 / 2.715	- / -																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		- / -	- / -	23 / 2.553	24 / 2.715	0 / 0.000	24 / 2.715	- / -	- / -	- / -	- / -	0 / 0.000	47 / 5.268																				

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1												P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey												Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)							
ID Code (A=Service Ready, B=Not Service Ready) :																		MDAP/MAIS Code:													
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)																															
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: MCOI Retrofit																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	8	8	7	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47
Out	-	-	-	-	-	-	-	8	8	13	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47
Method of Implementation: Contractor Drive-In Modification:: Installation Name: Nose Landing Gear Door Mechanism																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years	91 / 0.604	- / -	- / -	5 / 0.032	0 / 0.000	5 / 0.032	- / -	- / -	- / -	- / -	- / -	0 / 0.000	96 / 0.636																		
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018	- / -	- / -	- / -	5 / 0.032	0 / 0.000	5 / 0.032	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.032																		
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total	91 / 0.604	- / -	- / -	10 / 0.064	0 / 0.000	10 / 0.064	- / -	- / -	- / -	- / -	- / -	0 / 0.000	101 / 0.668																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	91	-	-	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101
Out	91	-	-	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101
Method of Implementation: Contractor Drive-In Modification:: Installation Name: Rudder Attachment Reliability Improvement																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years	66 / 0.924	60 / 0.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	126 / 1.774																		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy				Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey		Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)			
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:				

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Rudder Attachment Reliability Improvement

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2017	- / -	- / -	60 / 0.865	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.865
FY 2018	- / -	- / -	- / -	60 / 0.881	0 / 0.000	60 / 0.881	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.881
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.194	- / -	- / -	- / -	0 / 0.000	13 / 0.194
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	66 / 0.924	60 / 0.850	60 / 0.865	60 / 0.881	0 / 0.000	60 / 0.881	13 / 0.194	- / -	- / -	- / -	0 / 0.000	259 / 3.714

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	66	15	15	15	15	15	15	15	15	15	15	15	15	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	259
Out	66	15	15	15	15	15	15	15	15	15	15	15	15	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	259

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Shaft Driven Compressor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.240	- / -	0 / 0.000	48 / 0.240
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.245	0 / 0.000	48 / 0.245
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.245	48 / 0.245
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	206 / 1.072	206 / 1.072
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.240	48 / 0.245	254 / 1.317	350 / 1.802

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Exhibit P-3a, Individual Modification: PB 2019 Navy																						Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey											Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)									
ID Code (A=Service Ready, B=Not Service Ready) :																MDAP/MAIS Code:															
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)																															
Installation Information																															
Method of Implementation: Contractor Drive-In Mod:: Installation Name: Shaft Driven Compressor																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	254	350
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	254	350
Method of Implementation: Contractor Drive In Mod:: Installation Name: Aft Sponson Fuel Tank Mods																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		24 / 0.533	- / -	9 / 0.207	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	33 / 0.740																		
FY 2017		- / -	- / -	15 / 0.345	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	15 / 0.345																		
FY 2018		- / -	- / -	- / -	24 / 0.611	0 / 0.000	24 / 0.611	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.611																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.624	- / -	- / -	- / -	0 / 0.000	24 / 0.624																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.636	- / -	- / -	0 / 0.000	24 / 0.636																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.649	- / -	0 / 0.000	24 / 0.649																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.662	0 / 0.000	24 / 0.662																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.672	24 / 0.672																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 4.209	153 / 4.209																		
Total		24 / 0.533	- / -	24 / 0.552	24 / 0.611	0 / 0.000	24 / 0.611	24 / 0.624	24 / 0.636	24 / 0.649	24 / 0.662	177 / 4.881	345 / 9.148																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	24	-	-	-	-	11	8	5	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	177	345
Out	-	24	-	-	-	-	11	8	5	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	-	6	6	6	189	345
Method of Implementation (Organic): EAPS Start Valve Block A/B/C/10 Organic																															
																						Installation Quantity: 36									
Method of Implementation (Organic): IPS (CDD/NIPCU) Organic																															
																						Installation Quantity: 48									

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)		
Installation Information		
Method of Implementation (Organic): Nacelle Blower		Installation Quantity: 100
Method of Implementation (Organic): O2N2 Sieve Bed Kits		Installation Quantity: 12
Method of Implementation (Organic): PRGB Atmospheric Protection and Mast Seal Improvement		Installation Quantity: 204
Method of Implementation (Organic): Upper and Lower Rod Ends		Installation Quantity: 298
Method of Implementation (Organic): V-22 PRGB Input Quill/Clutch Redesign		Installation Quantity: 367
Method of Implementation (Organic): VFG GCU Update		Installation Quantity: 283
Method of Implementation (Organic): Archived ECPs - Not Installed		Installation Quantity: 2762
Method of Implementation (Organic): MCOI Retrofit BLK C IAP B-Kits		Installation Quantity: 47
Method of Implementation (Organic): MCOI Retrofit BLK C DTU B-Kits		Installation Quantity: 24
Footnotes: ⁽⁷⁾ IPS: Install schedule combines IPS (CDD) and IPS (CDD/NIPCU) showing a total of 106 installs. ⁽⁸⁾ DTU kits previously procured under OSIP 22-01. Moving DTU to OSIP 28-12 to align with MCOI BLK C effort. ⁽⁹⁾ Training Equipment: The increase in FY18 is due to the Block C modification of training simulators and maintenance trainers.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 3 / Common Configuration (011-17)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	80.963	80.760	75.040	0.000	75.040	162.151	166.244	376.896	384.933	1,177.586	2,504.573
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	80.963	80.760	75.040	0.000	75.040	162.151	166.244	376.896	384.933	1,177.586	2,504.573
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	80.963	80.760	75.040	0.000	75.040	162.151	166.244	376.896	384.933	1,177.586	2,504.573
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Operational Safety Improvement Program (OSIP) 011-17 is established for the Modification of 129 Block B and 124 Block C MV-22B aircraft to a common production configuration in support of improved readiness (#1 POM-18 OAG Priority), achieving common configuration (Deputy Commandant for Aviation Goal), and reducing Life Cycle Cost. The reduction of future Operating and Support costs is achieved by the reduction of National Stock Numbers in the supply system, reduction of training and maintenance tasks in the Intelligent Electronic Technical Manuals, and reduction of Non-Recurring Engineering retrofit costs due to multiple aircraft configurations on future engineering changes. This will include funding for approximately 80 Engineering Change Proposals that impact safety, reliability and cost. FY2018 funding is for the Non-recurring Engineering effort, including 2 Validation kits.

Common Configuration Kits: Kits that will bring retrofit aircraft up to a common configuration.

Nacelle Reliability Upgrades: Kits that will improve and upgrade the Nacelle to bring it to a common configuration.

Multifunction Display (MFD) and Advanced MFD: or flight displays in cockpit, thirty lb. weight savings, less cooling and power requirements, significant obsolescence avoided, greater pilot display capabilities.

Data Transfer Unit: Replaces obsolete unit.

Note: FY18 Funds realigned from OSIPS 22-01 and 28-12 in order to fund increase in Common Configuration requirements. This created reprioritization of requirements across OSIPS.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 3 / Common Configuration (011-17)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: V-22 Series				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability				Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Common Configuration (011-17)													
A Kits													
Recurring													
1.1.1) Common Configuration - Organic ⁽¹⁰⁾	- / -	- / -	- / -	4 / 68.028	- / -	4 / 68.028	9 / 154.010	9 / 157.032	21 / 367.500	21 / 374.850	63 / 1,147.041	127 / 2,268.461	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 68.028	- / -	- / 68.028	- / 154.010	- / 157.032	- / 367.500	- / 374.850	- / 1,147.041	- / 2,268.461	
Non-Recurring													
1.2.1) Installation Kits - N/R Common Configuration - Organic ⁽¹¹⁾	- / -	- / 80.963	- / 74.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 155.145	
Subtotal: Non-Recurring	- / 0.000	- / 80.963	- / 74.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 155.145	
B Kits													
Recurring													
2.1.1) Advanced Multi Function Display - Organic	- / -	- / -	7 / 0.713	9 / 0.935	- / -	9 / 0.935	9 / 0.954	21 / 2.271	21 / 2.317	24 / 2.700	38 / 4.191	129 / 14.081	
2.1.2) Data Transfer Unit - Organic	- / -	- / -	7 / 0.343	9 / 0.450	- / -	9 / 0.450	9 / 0.459	21 / 1.092	21 / 1.114	24 / 1.298	38 / 2.015	129 / 6.771	
Subtotal: Recurring	- / 0.000	- / -	- / 1.056	- / 1.385	- / -	- / 1.385	- / 1.413	- / 3.363	- / 3.431	- / 3.998	- / 6.206	- / 20.852	
Subtotal: Common Configuration (011-17)	- / -	- / 80.963	14 / 75.238	22 / 69.413	- / -	22 / 69.413	27 / 155.423	51 / 160.395	63 / 370.931	69 / 378.848	139 / 1,153.247	385 / 2,444.458	
Subtotal: Procurement, All Modification Items	- / 0.000	- / 80.963	- / 75.238	- / 69.413	- / -	- / 69.413	- / 155.423	- / 160.395	- / 370.931	- / 378.848	- / 1,153.247	- / 2,444.458	
Support (All Modification Items)													
3.2) Other Support	- / -	- / -	- / 5.522	- / 5.627	- / -	- / 5.627	- / 5.734	- / 5.849	- / 5.965	- / 6.085	- / 24.339	- / 59.121	
Subtotal: Support	- / 0.000	- / -	- / 5.522	- / 5.627	- / -	- / 5.627	- / 5.734	- / 5.849	- / 5.965	- / 6.085	- / 24.339	- / 59.121	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	80.963	80.760	75.040	0.000	75.040	162.151	166.244	376.896	384.933	1,177.586	2,504.573	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 3 / Common Configuration (011-17)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Common Configuration (011-17)		
Footnotes: (10) Common Configuration is being done as a Turn-Key Mod line. (11) FY18 Common Configuration includes Non Recurring Engineering Costs and 2 Validation Kits.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 4 / Aerial Refueling (008-18)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	14.206	24.314	0.000	24.314	23.813	24.526	24.591	25.082	115.899	252.431
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	14.206	24.314	0.000	24.314	23.813	24.526	24.591	25.082	115.899	252.431
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	14.206	24.314	0.000	24.314	23.813	24.526	24.591	25.082	115.899	252.431
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Operational Safety Improvement Program (OSIP) 008-18 is established for the MV-22 Aerial Refueling System (VARS) Capability. The VARS is an initiative which will deliver the capability to aerial refuel F/A-18, F-35, AV-8B, V-22 and CH-53E aircraft from the V-22. This mission kit will significantly enhance the capabilities of deployed Marine Expeditionary Unit and Special Purpose Marine Air Ground Task Force Assets operating around the world. Additionally, VARS will provide needed relief to KC-130Js tasked with aerial refueling.

Electric/Hydraulic Kits - Hardware required to connect the VARS to the standard V-22, which includes both hydraulic and electrical components, wires and tubing.

Fuel Management Unit (FMU) - New FMU box to manage fuel system.

Reel Mission Kit - Equipment that will include a rotating drum around which a fuel hose can be wrapped for storage. The fuel hose will extend out of the V-22 and will supply fuel to the receiving aircraft.

MATS Mod - Mission Auxiliary Tank System are removable, commercial-off-the-shelf and Government Furnished Equipment tanks currently used to contain additional fuel within the cabin of the V-22. This GFE requires modifications to work with the proposed VARS.

Note: Training Equipment delayed from FY2018 to FY2019.

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 4 / Aerial Refueling (008-18)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series			Modification Type: Performance, Capability					Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Aerial Refueling (008-18)													
A Kits													
Recurring													
1.1.1) Electric/Hydraulic A Kits - Organic		- / -	- / -	10 / 2.550	24 / 6.242	- / -	24 / 6.242	24 / 6.367	24 / 6.495	24 / 6.624	24 / 6.757	215 / 59.344	345 / 94.379
1.1.2) FMU Upgrade - Organic		- / -	- / -	10 / 0.560	34 / 1.962	- / -	34 / 1.962	26 / 1.558	30 / 1.826	23 / 1.437	23 / 1.465	80 / 4.849	226 / 13.657
Subtotal: Recurring		- / 0.000	- / -	- / 3.110	- / 8.204	- / -	- / 8.204	- / 7.925	- / 8.321	- / 8.061	- / 8.222	- / 64.193	- / 108.036
Non-Recurring													
1.2.1) Installation Kits N/R - Organic		- / -	- / -	- / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.130
Subtotal: Non-Recurring		- / 0.000	- / -	- / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.130
B Kits													
Recurring													
2.1.1) Reel Mission Kits - Organic		- / -	- / -	2 / 3.836	6 / 11.738	- / -	6 / 11.738	6 / 11.973	6 / 12.212	6 / 12.457	6 / 12.705	13 / 28.080	45 / 93.001
2.1.2) Mat Mod - Organic		- / -	- / -	10 / 1.020	24 / 2.497	- / -	24 / 2.497	24 / 2.547	24 / 2.598	24 / 2.650	24 / 2.703	98 / 10.820	228 / 24.835
Subtotal: Recurring		- / 0.000	- / -	- / 4.856	- / 14.235	- / -	- / 14.235	- / 14.520	- / 14.810	- / 15.107	- / 15.408	- / 38.900	- / 117.836
Subtotal: Aerial Refueling (008-18)		- / -	- / -	32 / 8.096	88 / 22.439	- / -	88 / 22.439	80 / 22.445	84 / 23.131	77 / 23.168	77 / 23.630	406 / 103.093	844 / 226.002
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / 8.096	- / 22.439	- / -	- / 22.439	- / 22.445	- / 23.131	- / 23.168	- / 23.630	- / 103.093	- / 226.002
Support (All Modification Items)													
3.1) Data		- / -	- / -	- / 1.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.410
3.2) Training Equipment ⁽¹²⁾		- / -	- / -	- / 0.100	- / 0.534	- / -	- / 0.534	- / -	- / -	- / -	- / -	- / -	- / 0.634
3.3) Support Equipment		- / -	- / -	- / 3.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.150
3.4) ILS		- / -	- / -	- / 0.135	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.135
3.5) Other Support		- / -	- / -	- / 1.315	- / 1.341	- / -	- / 1.341	- / 1.368	- / 1.395	- / 1.423	- / 1.452	- / 12.806	- / 21.100
Subtotal: Support		- / 0.000	- / -	- / 6.110	- / 1.875	- / -	- / 1.875	- / 1.368	- / 1.395	- / 1.423	- / 1.452	- / 12.806	- / 26.429
Installation													
Subtotal: Installation		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total													
Total Cost (Procurement + Support + Installation)		0.000	0.000	14.206	24.314	0.000	24.314	23.813	24.526	24.591	25.082	115.899	252.431

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / Aerial Refueling (008-18)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Aerial Refueling (008-18)		
Footnotes: (12) Training Equipment: FY19 increase is due to courseware upgrade.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / Avionics Improvements (009-19)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	52.035	0.000	52.035	65.739	58.366	49.916	50.145	1,441.005	1,717.206
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	52.035	0.000	52.035	65.739	58.366	49.916	50.145	1,441.005	1,717.206
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	52.035	0.000	52.035	65.739	58.366	49.916	50.145	1,441.005	1,717.206
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 009-19 is established to incorporate changes to V-22 Avionics systems, working in concert with the Technical Insertion (TI) schedule to reduce cost, improve coordination, yield common configurations, and improve ready based aircraft. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable V-22 force to sustain warfighter capability in support of worldwide operations.

Current/Active ECPs:

Funds will be utilized to manage, process and incorporate ECPs and implement changes to sustain and improve MV-22 retrofit aircraft readiness, safety, mission availability, structural integrity and components reliability, maintainability and obsolescence conditions.

Funds are used to incorporate ECPs for Avionics Improvements.

AVIONICS: Avionics modifications to the V-22 will improve display reliability, eliminate communication security issues and alleviate parts obsolescence/vendor problems. Changes to the V-22 avionics will include: Display System upgrade, Cockpit Inter Communication System modification, upgraded Mission Computer, updated Data Transfer Module, Control Display Unit/Engine Instrument Caution Advisory System upgrade, Control Display Unit Keyboard upgrade, and Avionics Interface Units upgrades. As well as Mission System Upgrade and Midwing Processing Unit obsolescence replacement. Software modifications are controlled by the functional requirements document (FRD) and introduced to the fleet for release every two years, or as needed based on emerging fleet requirements. Modifications to the various avionics software configuration items being incorporated into the fleet aircraft also require updates to the Collaborative Automated Maintenance Environment Optimized (CAMEO), Integrated Electronic Technical Manuals (IETMs); and mission planning. Specifically for the mission planning system, the V-22 Unique Planning Component (UPC) for the Joint Mission Planning System (JMPS) must implement frequent software updates in conjunction with production aircraft performance and software changes. Changes to the JMPS UPC in accordance with the FRD must include mission planning specific software regression tests to ensure proper operation and integration with other aircraft UPCs within JMPS.

V-22 Integrated Aircraft Survivability Equipment (IASE) (ECP previously in OSIP 22-01): Will correct deficiencies of the current RADAR warning system, replace the existing Missile Warning System, implement an active Infra-red countermeasure system, upgrade current countermeasures dispenser and provide integrated threat information on current aircraft main flight displays.

Data Transfer Unit (ECP previously in OSIP 22-01): Replaces obsolete unit.

FLIR (ECP previously in OSIP 22-01): Upgrade to the Forward Looking Infrared (FLIR) System Electronics Unit (SEU) with an Enhanced Local Area Processing (ELAP) card to improve visibility for the pilot.

Procurement of System Electronics Units (SEU's) for MV-22 aircraft being modified from Block A to Block B configuration. The SEU provides digital signal processing of the image obtained via the FLIR optics in the current FLIR unit, and passes the image data to the MV-22 mission computer.

Traffic Collision Avoidance System (TCAS) (ECP previously in OSIP 22-01): Procurement of kits and installations of the Honeywell MILACAS-XR TCAS into MCOI-equipped MV-22 Block B and C aircraft.

MILACAS-XR is identical to the TCAS system already in use aboard the CV-22, and will advise MV-22 pilots of other air traffic in proximity to the MV-22, as well as resolution advisories of what course to fly to avoid colliding with the threat aircraft.

Digital Interoperability (ECP previously in OSIP 22-01): Provides situational awareness, enhanced command and control, remote and operation of payloads, and tracking of Marines and cargo. It also allows for collaboration and cooperation in a Joint environment.

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / Avionics Improvements (009-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Multifunction Display (MFD) and Advanced MFD (ECP previously in OSIP 22-01): Upgrades flight displays in cockpit, thirty lb. weight savings, less cooling and power requirements, significant obsolescence avoided, greater pilot display capabilities. Multi Spectral Sensor (ECP previously in OSIP 22-01): Targeting forward looking infra-red device. ECP-Training Equipment: AMT #4, Improves training and pilot proficiency by incorporating modifications to the AMT to reflect most current Block aircraft configuration. ECP-Training Equipment: Full Fidelity Simulator (FFS) UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FFS #1-4 to reflect most current aircraft configuration as directed by Blue Ribbon Panel. ECP-Training Equipment: FTD UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FTD #1-14 to reflect most current aircraft configuration as directed by Blue Ribbon Panel. Mission Computer Obsolescence Initiative (MCOI) Retrofit for BLK C (ECP previously in OSIP 28-12): MCOI replaces several components and allows planned capabilities to operate without memory processing power or memory storage. Has a positive Return on Investment compared too many other costs that would be absorbed (avoidance).		

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 5 / Avionics Improvements (009-19)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series			Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability					Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Avionics Improvements (009-19)													
A Kits													
Recurring													
1.1.1) Advanced MFD - NonOrganic	- / -	- / -	- / -	33 / 2.640	- / -	33 / 2.640	18 / 1.467	- / -	- / -	- / -	- / -	51 / 4.107	
1.1.2) Color Helmet Mounted Display - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.020	345 / 179.469	347 / 180.489	
1.1.3) Digital Interoperability - MANGL - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	12 / 4.944	12 / 5.043	12 / 5.144	12 / 5.247	313 / 139.586	361 / 159.964	
1.1.4) Digital Interoperability - MANGL GFE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.220	12 / 2.264	12 / 2.310	12 / 2.356	313 / 62.678	361 / 71.828	
1.1.5) FLIR ELAP - NonOrganic	- / -	- / -	- / -	144 / 1.814	- / -	144 / 1.814	96 / 1.234	92 / 1.206	115 / 1.538	- / -	- / -	447 / 5.792	
1.1.6) MCOI BLK C - NonOrganic	- / -	- / -	- / -	24 / 4.382	- / -	24 / 4.382	13 / 2.419	- / -	- / -	- / -	- / -	37 / 6.801	
1.1.7) Multi Spectral Sensor - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.611	345 / 635.320	347 / 638.931	
1.1.8) Traffic Collision Avoidance System - NonOrganic	- / -	- / -	- / -	34 / 4.848	- / -	34 / 4.848	34 / 4.941	35 / 5.182	- / -	- / -	- / -	103 / 14.971	
1.1.9) V-22 Integrated Aircraft Survivability Equip (DV2/ LSPR) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	12 / 9.642	12 / 9.834	12 / 10.031	12 / 10.221	160 / 139.018	208 / 178.746	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 13.684	- / -	- / 13.684	- / 26.867	- / 23.529	- / 19.023	- / 22.455	- / 1,156.071	- / 1,261.629	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.973	- / 0.206	- / -	- / -	- / -	- / 2.179	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.973	- / 0.206	- / -	- / -	- / 0.000	- / 2.179	
B Kits													
Recurring													
2.1.1) Advanced MFD - Organic	- / -	- / -	- / -	33 / 3.465	- / -	33 / 3.465	18 / 1.928	- / -	- / -	- / -	- / -	51 / 5.393	
2.1.2) MCOI BLK C - DTU B-Kits - Organic	- / -	- / -	- / -	24 / 1.198	- / -	24 / 1.198	13 / 0.661	- / -	- / -	- / -	- / -	37 / 1.859	
2.1.3) MCOI BLK C - IAP B-Kits - Organic	- / -	- / -	- / -	24 / 7.089	- / -	24 / 7.089	13 / 3.913	- / -	- / -	- / -	- / -	37 / 11.002	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 11.752	- / -	- / 11.752	- / 6.502	- / -	- / -	- / -	- / 0.000	- / 18.254	
Subtotal: Avionics Improvements (009-19)	- / -	- / -	- / -	316 / 25.436	- / -	316 / 25.436	241 / 35.342	163 / 23.735	151 / 19.023	40 / 22.455	1,476 / 1,156.071	2,387 / 1,282.062	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 25.436	- / -	- / 25.436	- / 35.342	- / 23.735	- / 19.023	- / 22.455	- / 1,156.071	- / 1,282.062	
Support (All Modification Items)													
3.1) Other Support	- / -	- / -	- / -	- / 8.814	- / -	- / 8.814	- / 8.989	- / 9.151	- / 9.316	- / 9.483	- / 26.452	- / 72.205	
3.2) Training Equipment ⁽¹³⁾	- / -	- / -	- / -	- / 15.443	- / -	- / 15.443	- / 14.019	- / 14.270	- / 12.675	- / 12.335	- / 90.452	- / 159.194	
3.3) Support Equipment ⁽¹⁴⁾	- / -	- / -	- / -	- / 1.478	- / -	- / 1.478	- / 2.014	- / 2.285	- / 1.504	- / 0.631	- / 3.243	- / 11.155	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey						Modification Number / Title: 5 / Avionics Improvements (009-19)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: V-22 Series				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability				Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 25.735	- / -	- / 25.735	- / 25.022	- / 25.706	- / 23.495	- / 22.449	- / 120.147	- / 242.554	
Installation													
<i>Modification Item 1 of 1: Avionics Improvements (009-19)</i>	- / 0.000	- / 0.000	- / 0.000	- / 0.864	- / 0.000	- / 0.864	- / 5.375	- / 8.925	- / 7.398	- / 5.241	- / 164.787	- / 192.590	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.864	- / -	- / 0.864	- / 5.375	- / 8.925	- / 7.398	- / 5.241	- / 164.787	- / 192.590	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	52.035	0.000	52.035	65.739	58.366	49.916	50.145	1,441.005	1,717.206	

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey		Modification Number / Title: 5 / Avionics Improvements (009-19)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: Avionics Improvements (009-19)							
Manufacturer Information							
Manufacturer Name: V-22 IASE (DV2/LSPR)				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Jan 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates				Oct 2020	Oct 2021	Oct 2022	Oct 2023
Manufacturer Name: Advanced MFD				Manufacturer Location: Redstone, AL			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jan 2019	Jan 2020			
Delivery Dates			Oct 2019	Oct 2020			
Manufacturer Name: MCOI Retrofit BLK C				Manufacturer Location: Redstone, AL			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Mar 2019	Mar 2020			
Delivery Dates			Oct 2019	Oct 2020			
Manufacturer Name: Traffic Collision Avoidance System				Manufacturer Location: Bell Boeing			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			May 2019	May 2020	May 2021		
Delivery Dates			Oct 2019	Oct 2020	Oct 2021		
Manufacturer Name: FLIR ELAP				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 5			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	
Delivery Dates			May 2019	May 2020	May 2021	May 2022	
Manufacturer Name: Multi Spectral Sensor				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							Jan 2023

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey										Modification Number / Title: 5 / Avionics Improvements (009-19)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Avionics Improvements (009-19)																															
Manufacturer Information																															
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Delivery Dates																						Oct 2023									
Manufacturer Name: Digital Interoperability - MANGL															Manufacturer Location: N/A																
Administrative Leadtime (<i>in Months</i>): 66															Production Leadtime (<i>in Months</i>): 7																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates														Mar 2020				Mar 2021				Mar 2022				Mar 2023					
Delivery Dates														Oct 2020				Oct 2021				Oct 2022				Oct 2023					
Installation Information																															
Method of Implementation: Contractor Field Modification:: Installation Name: Advanced MFD																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.594	- / -	- / -	- / -	0 / 0.000	33 / 0.594																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.330	- / -	- / -	0 / 0.000	18 / 0.330																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.594	18 / 0.330	- / -	- / -	0 / 0.000	51 / 0.924																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	9	8	6	6	6	-	-	-	-	-	-	-	-	-	-	51
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	9	8	6	6	6	-	-	-	-	-	-	-	-	-	-	51

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Exhibit P-3a, Individual Modification: PB 2019 Navy																			Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey										Modification Number / Title: 5 / Avionics Improvements (009-19)										
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Avionics Improvements (009-19)																															
Installation Information																															
Method of Implementation: Contractor Drive-In Mod:: Installation Name: Digital Interoperability - MANGL																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.592	- / -	- / -	0 / 0.000	12 / 2.592																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.644	- / -	0 / 0.000	12 / 2.644																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.697	0 / 0.000	12 / 2.697																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.750	12 / 2.750																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	313 / 71.747	313 / 71.747																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.592	12 / 2.644	12 / 2.697	325 / 74.497	361 / 82.430																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	325	361	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	328	361	
Method of Implementation: Contractor Field Modification:: Installation Name: FLIR ELAP																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	144 / 0.864	0 / 0.000	144 / 0.864	- / -	- / -	- / -	- / -	0 / 0.000	144 / 0.864																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	96 / 0.587	- / -	- / -	- / -	0 / 0.000	96 / 0.587																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	92 / 0.573	- / -	- / -	0 / 0.000	92 / 0.573																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 0.730	- / -	0 / 0.000	115 / 0.730																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey											Modification Number / Title: 5 / Avionics Improvements (009-19)										
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:																					
Modification Item 1 of 1: Avionics Improvements (009-19)																																
Installation Information																																
Method of Implementation: Contractor Field Modification:: Installation Name: FLIR ELAP																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Total		- / -	- / -	- / -	144 / 0.864	0 / 0.000	144 / 0.864	96 / 0.587	92 / 0.573	115 / 0.730	- / -	0 / 0.000	447 / 2.754																			
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	72	72	-	-	48	48	-	-	46	46	-	-	58	57	-	-	-	-	-	447	
Out	-	-	-	-	-	-	-	-	-	-	-	72	72	-	-	48	48	-	-	46	46	-	-	58	57	-	-	-	-	-	447	
Method of Implementation: Contractor Field Mod Team:: Installation Name: MCOI BLK C																																
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 2.766																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	13 / 1.527																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	37 / 4.293																		
Installation Schedule																																
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	4	4	5	-	-	-	-	-	-	-	-	-	-	37	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	4	4	5	-	-	-	-	-	-	-	-	-	-	37	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 5 / Avionics Improvements (009-19)																					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:																					
Modification Item 1 of 1: Avionics Improvements (009-19)																															
Installation Information																															
Method of Implementation: Contractor Field Modification:: Installation Name: Multi Spectral Sensor																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																			
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.306	2 / 0.306																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	345 / 52.785	345 / 52.785																			
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	347 / 53.091	347 / 53.091																			
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	347	347
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	347	347
Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Traffic Collision Avoidance System																															
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																			
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																			
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	34 / 1.428	- / -	- / -	- / -	0 / 0.000	34 / 1.428																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 1.457	- / -	- / -	0 / 0.000	34 / 1.457																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.529	- / -	0 / 0.000	35 / 1.529																			
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			

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Exhibit P-3a, Individual Modification: PB 2019 Navy																			Date: February 2018															
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey										Modification Number / Title: 5 / Avionics Improvements (009-19)														
ID Code (A=Service Ready, B=Not Service Ready) :																			MDAP/MAIS Code:															
Modification Item 1 of 1: Avionics Improvements (009-19)																																		
Installation Information																																		
Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Traffic Collision Avoidance System																																		
Installation Cost					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
					Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)														
Total					- / -	- / -	- / -	- / -	- / -	- / -	34 / 1.428	34 / 1.457	35 / 1.529	- / -	0 / 0.000	103 / 4.414																		
Installation Schedule																																		
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8	9	8	9	8	9	8	9	8	9	9	-	-	-	-	-	103			
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8	9	8	9	8	9	8	9	8	9	9	-	-	-	-	-	103		
Method of Implementation: Contractor Drive-In Modification:: Installation Name: V-22 Integrated Aircraft Survivability Equip (																																		
Installation Cost					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
					Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)														
Prior Years					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
FY 2017					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
FY 2018					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
FY 2019					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
FY 2020					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.446	
FY 2021					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.495	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.495	
FY 2022					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.544	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.544	
FY 2023					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.595	12 / 2.595
To Complete					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 34.604	160 / 34.604		
Total					- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.446	12 / 2.495	12 / 2.544	12 / 2.544	12 / 2.544	12 / 2.544	12 / 2.544	12 / 2.544	12 / 2.544	12 / 2.544	172 / 37.199	208 / 44.684	
Installation Schedule																																		
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	172	208		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	175	208		

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / Avionics Improvements (009-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Avionics Improvements (009-19)		
Installation Information		
Method of Implementation (Organic): Color Helmet Mounted Display		Installation Quantity: 347
Method of Implementation (Organic): Digital Interoperability - MANGL GFE		Installation Quantity: 361
Method of Implementation (Organic): Advanced MFD		Installation Quantity: 51
Method of Implementation (Organic): MCOI BLK C - DTU B-Kits		Installation Quantity: 37
Method of Implementation (Organic): MCOI BLK C - IAP B-Kits		Installation Quantity: 37
Footnotes: ⁽¹³⁾ Training Equipment: Funding required to upgrade Trainers to BLK C configuration. ⁽¹⁴⁾ Support Equipment: FY19 and FY20 increases are due to the V-22 Integrated Aircraft Survivability Equipment.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: 0604274N				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: P445												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.952	0.000	0.952	232.243	212.353	348.848	530.083	3,365.589	4,690.068
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.952	0.000	0.952	232.243	212.353	348.848	530.083	3,365.589	4,690.068
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.952	0.000	0.952	232.243	212.353	348.848	530.083	3,365.589	4,690.068
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: FY19 New Start. The Next Generation Jammer (NGJ) is the next step in the evolution of Airborne Electronic Attack (AEA) and is a critical capability necessary to address current, emerging, and evolving Electronic Warfare gaps, ensure kill chain wholeness against growing threat capabilities and capacity, keep pace with enemy threat weapon systems' advancements, and support the continuous expansion of the AEA mission areas that exceed the capability of currently fielded systems. NGJ will utilize enhanced techniques and tactics to deliver significantly improved radar and communications jamming effectiveness as well as other classified capabilities. Utilizing an Open Systems Architecture that supports software and hardware updates to rapidly counter emergent and evolving threats, NGJ is a key enabler and force multiplier for operations across the spectrum of missions defined in the Defense Strategic Guidance, including strike warfare, projecting power despite anti-access/area denial challenges, and counterinsurgency/irregular warfare. NGJ will also address the shortfalls in scalability, flexibility, supportability, interoperability, availability, and capability of the existing AN/ALQ-99 Tactical Jamming System. FY 2019 NGJ kit procurements are required to maintain alignment with H16 hardware procurement and installation, allowing for one major modification period for all advanced Growler installations in FY 2020. Performing these hardware installations simultaneously will provide cost and schedule efficiencies as aircraft are pulled off the flightline, run through major disassembly and reassembly only once, rather than multiple times. The FY 2020 induction of these aircraft for modification allows for fleet integration, tactics development and initial cadre training in preparation for the first fleet operational capability supporting the master aviation plan.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: 0604274N			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: P445										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19) (RELIABILITY / MISSION CAPABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.952	- / 0.000	- / 0.952
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.952	- / 0.000	- / 0.952
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19) (RELIABILITY / MISSION CAPABILITY)				- / 232.243	- / 212.353	- / 348.848	- / 530.083	- / 3,365.589	- / 4,690.068
P-40	Total Gross/Weapon System Cost				- / 232.243	- / 212.353	- / 348.848	- / 530.083	- / 3,365.589	- / 4,690.068
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The Department of the Navy has been tasked with accomplishing the Nation's AEA mission in various theaters of operation over the last few decades. The AEA capability fielded by the Navy on the EA-18G Growler has been a high demand, low density asset. Stable investment in AEA systems will ensure continued availability of AEA capability to meet warfighter demand. NGJ will address AEA capability and sufficiency gaps against enemy threats operating in all frequency bands of the electromagnetic spectrum. NGJ will provide the ability to effectively engage enemy threats from increased stand-off distances, employ increased capacity (number of jamming assignments) against enemy targets, and support agile employment by operators. The NGJ system will be integrated on the EA-18G tactical aircraft and replace the aging AN/ALQ-99 Tactical Jamming System pods.										

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)						Modification Number / Title: 1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.952	0.000	0.952	232.243	212.353	348.848	530.083	3,365.589	4,690.068
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.952	0.000	0.952	232.243	212.353	348.848	530.083	3,365.589	4,690.068
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.952	0.000	0.952	232.243	212.353	348.848	530.083	3,365.589	4,690.068
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The AN/ALQ-249 Next Generation Jammer - Mid Band (NGJ-MB) (formerly known as Next Generation Jammer Increment 1) program will address AEA capability and sufficiency gaps against enemy threats operating in the middle frequency bands of the electromagnetic spectrum. NGJ-MB will provide the ability to effectively engage enemy threats from increased stand-off distances, employ increased capacity (number of jamming assignments) against enemy targets, and support agile employment by operators. The NGJ-MB system will be integrated on the EA-18G tactical aircraft and replace the aging AN/ALQ-99 Tactical Jamming System Mid-Band pods. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES FY19 New Start. NGJ-MB development began in FY 2010. NGJ-MB received Milestone B approval in 3rd Quarter FY 2016. Milestone C is scheduled for 4th Quarter FY 2020 with Initial Operational Capability scheduled for 4th Quarter FY 2022. FY 2019 NGJ kit procurements are required to maintain alignment with H16 hardware procurement and installation, allowing for one major modification period for all advanced Growler installations in FY 2020. Performing these hardware installations simultaneously will provide cost and schedule efficiencies as aircraft are pulled off the flightline, run through major disassembly and reassembly only once, rather than multiple times. The FY 2020 induction of these aircraft for modification allows for fleet integration, tactics development and initial cadre training in preparation for the first fleet operational capability supporting the master aviation plan.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)				Modification Number / Title: 1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)					
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: EA-18G				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)													
A Kits													
Recurring													
1.1.1) NGJ Kits - NonOrganic ⁽¹⁾	- / -	- / -	- / -	4 / 0.942	- / -	4 / 0.942	28 / 3.394	32 / 3.957	32 / 4.036	32 / 4.117	19 / 2.493	147 / 18.939	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 0.942	- / -	- / 0.942	- / 3.394	- / 3.957	- / 4.036	- / 4.117	- / 2.493	- / 18.939	
B Kits													
Recurring													
2.1.1) NGJ Mid-Band Pod Shipset - Organic	- / -	- / -	- / -	- / -	- / -	- / -	7 / 223.760	3 / 119.041	8 / 263.107	14 / 429.347	96 / 2,907.197	128 / 3,942.452	
2.1.2) Non-Recurring - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.691	- / 42.691	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 223.760	- / 119.041	- / 263.107	- / 429.347	- / 2,949.888	- / 3,985.143	
Subtotal: Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)	- / -	- / -	- / -	4 / 0.942	- / -	4 / 0.942	35 / 227.154	35 / 122.998	40 / 267.143	46 / 433.464	115 / 2,952.381	275 / 4,004.082	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 0.942	- / -	- / 0.942	- / 227.154	- / 122.998	- / 267.143	- / 433.464	- / 2,952.381	- / 4,004.082	
Support (All Modification Items)													
3.2) ILS ⁽²⁾	- / -	- / -	- / -	- / 0.010	- / -	- / 0.010	- / 2.323	- / 2.123	- / 3.489	- / 5.300	- / 33.656	- / 46.901	
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.010	- / -	- / 0.010	- / 2.323	- / 2.123	- / 3.489	- / 5.300	- / 33.656	- / 46.901	
Installation													
Modification Item 1 of 1: Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2.766	- / 9.876	- / 11.512	- / 11.742	- / 17.704	- / 53.600	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.766	- / 9.876	- / 11.512	- / 11.742	- / 17.704	- / 53.600	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.952	0.000	0.952	232.243	212.353	348.848	530.083	3,365.589	4,690.068	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Navy											Date: February 2018																				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)										Modification Number / Title: 1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)																															
Manufacturer Information																															
Manufacturer Name: Boeing Company															Manufacturer Location: St. Louis, MO																
Administrative Leadtime (in Months): 12															Production Leadtime (in Months): 9																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates										Sep 2019				Dec 2019				Dec 2020				Dec 2021				Dec 2022					
Delivery Dates										Jun 2020				Sep 2020				Sep 2021				Sep 2022				Sep 2023					
Installation Information																															
Method of Implementation: Contractor Field Mod Team:: Installation Name: NGJ Kits																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.383		- / -		- / -		- / -		0 / 0.000		4 / 1.383					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.383		24 / 8.465		- / -		- / -		0 / 0.000		28 / 9.848					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.411		28 / 10.073		- / -		0 / 0.000		32 / 11.484					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.439		28 / 10.274		0 / 0.000		32 / 11.713					
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.468		28 / 10.480		32 / 11.948					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		19 / 7.224		19 / 7.224					
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / 2.766		28 / 9.876		32 / 11.512		32 / 11.742		47 / 17.704		147 / 53.600					
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	7	7	7	7	8	8	8	8	8	8	8	8	47	147
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	7	7	7	7	8	8	8	8	8	8	8	8	47	147
Method of Implementation (Organic): NGJ Mid-Band Pod Shipset - Not Installed																															
															Installation Quantity: 128																
Footnotes:																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)	Modification Number / Title: 1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(1) FY 2019 NGJ kit procurements are required to maintain alignment with H16 hardware procurement and installation, allowing for one major modification period for all advanced Growler installations in FY 2020. Performing these hardware installations simultaneously will provide cost and schedule efficiencies as aircraft are pulled off the flightline, run through major disassembly and reassembly only once, rather than multiple times. The FY 2020 induction of these aircraft for modification allows for fleet integration, tactics development and initial cadre training in preparation for the first fleet operational capability supporting the master aviation plan. (2) Phasing of ILS is based on when squadron stand-up occurs to achieve the Navy Support Date of FY 2026.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: 0604800M, 0604810M, 0604840M				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 198												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	526.411	24.350	34.963	36.618	0.000	36.618	38.582	47.609	50.163	53.742	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	526.411	24.350	34.963	36.618	0.000	36.618	38.582	47.609	50.163	53.742	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	526.411	24.350	34.963	36.618	0.000	36.618	38.582	47.609	50.163	53.742	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2019 funding request was adjusted by \$33.687M to account for the availability of prior year execution balances. The F-35B Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Marine Corps Short Take Off and Vertical Landing (STOVL) correction of deficiencies effort provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field and depot retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate concurrency changes to sustain and improve F-35B system operations. Concurrency changes are implemented to coincide with resources and aircraft availability. Block upgrades provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35B platform. This modification program will bring early production aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program. The modification funding requested in FY19 enables several distinct efforts pertaining to the Marine F-35B aircraft to include post aircraft delivery concurrency retrofits, to correct deficiencies, the block upgrade of hardware and software to a Block 3i configuration. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES The overlap of development with production and operations results in the need to manage a concurrency program and conduct retrofits on jets with life-limited parts or impacts to capabilities. Block 3i Fleet Release occurred 4th Qtr FY15.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy					Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0604800M, 0604810M, 0604840M			Other Related Program Elements: N/A			

Line Item MDAP/MAIS Code: 198

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14) (Capability Improvement)				- / 166.412	- / 0.275	- / 1.662	- / 3.570	- / 0.000	- / 3.570
P-3a	2 / F-35 STOVL CONCURRENCY (OSIP 023-14) (Capability Improvement)				- / 359.999	- / 24.075	- / 33.301	- / 32.081	- / 0.000	- / 32.081
P-3a	3 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19) (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 0.967	- / 0.000	- / 0.967
P-3a	4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 005-19) (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 526.411	- / 24.350	- / 34.963	- / 36.618	- / 0.000	- / 36.618

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14) (Capability Improvement)				- / 2.724	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 174.643
P-3a	2 / F-35 STOVL CONCURRENCY (OSIP 023-14) (Capability Improvement)				- / 31.976	- / 38.960	- / 41.526	- / 44.786	Continuing	Continuing
P-3a	3 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19) (Capability Improvement)				- / 3.882	- / 5.031	- / 5.123	- / 5.358	- / 0.000	- / 20.361
P-3a	4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 005-19) (Capability Improvement)				- / 0.000	- / 3.618	- / 3.514	- / 3.598	- / 0.000	- / 10.730
P-40	Total Gross/Weapon System Cost				- / 38.582	- / 47.609	- / 50.163	- / 53.742	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Basis for FY 2019 budget request: FY19 F-35B Total Active Inventory is 81 aircraft. FY 2019 funding is requested for kits to support Structural Life Limited Parts Group 2 (SLLP2), installation of LRIP 2-5 JSF F-35B to Block 3i configuration and for the highest priority concurrency modifications in support of IOT&E and USMC operations.

The FY 2019 funding request was reduced by \$0.075M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series				Modification Number / Title: 1 / F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:					

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	166.412	0.275	1.662	3.570	0.000	3.570	2.724	0.000	0.000	0.000	0.000	174.643
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	166.412	0.275	1.662	3.570	0.000	3.570	2.724	0.000	0.000	0.000	0.000	174.643
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	166.412	0.275	1.662	3.570	0.000	3.570	2.724	0.000	0.000	0.000	0.000	174.643
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The block upgrade program retrofits United States Marine Corps F-35B aircraft and integrated systems procured under the Low Rate Initial Production (LRIP) contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (OSIP 015-14) focuses on upgrading Blocks 1B, 2A, and 2B aircraft from LRIPs 2-5 to a Block 3i configuration. Block 3i is a stepping stone to the Block 3F configuration. It includes the procurement of Tech Refresh 2 (TR2) hardware for the Block 3i configuration. The parts include new radar modules, new Integrated Core Processor (ICP) modules and rack, and new Electronic Warfare (EW) modules. The Gen III Helmet will also be introduced as part of the Block 3i upgrade. This effort includes tooling and test equipment for Military Service Depots to support the execution of the Block Upgrade program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Block 3i Software Fleet Release occurred 4th Qtr FY15. TR-2 Kit material delivery began 4th Qtr FY17.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 1 / F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14)													
B Kits													
Recurring													
1.1.1) EQUIPMENT Block 3i - NonOrganic ⁽¹⁾	27 / 127.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 127.660	
Subtotal: Recurring	- / 127.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 127.660	
Subtotal: F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14)	27 / 127.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 127.660	
Subtotal: Procurement, All Modification Items	- / 127.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 127.660	
Support (All Modification Items)													
2.1) ILS	- / 13.392	- / 0.153	- / 0.236	- / 0.287	- / -	- / 0.287	- / 0.189	- / -	- / -	- / -	- / -	- / 14.257	
2.2) Other Support	- / 16.126	- / -	- / 0.214	- / 0.854	- / -	- / 0.854	- / 0.521	- / -	- / -	- / -	- / -	- / 17.715	
2.3) Training Equipment	- / 9.234	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.234	
Subtotal: Support	- / 38.752	- / 0.153	- / 0.450	- / 1.141	- / -	- / 1.141	- / 0.710	- / -	- / -	- / -	- / 0.000	- / 41.206	
Installation													
Modification Item 1 of 1: F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14)	- / 0.000	- / 0.122	- / 1.212	- / 2.429	- / 0.000	- / 2.429	- / 2.014	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 5.777	
Subtotal: Installation	- / 0.000	- / 0.122	- / 1.212	- / 2.429	- / -	- / 2.429	- / 2.014	- / -	- / -	- / -	- / 0.000	- / 5.777	
Total													
Total Cost (Procurement + Support + Installation)	166.412	0.275	1.662	3.570	0.000	3.570	2.724	0.000	0.000	0.000	0.000	174.643	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0592 / F-35 STOVL Series										Modification Number / Title: 1 / F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: F-35 STOVL BLOCK 3i/3F UPGRADE (OSIP 015-14)																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin															Manufacturer Location: Fort Worth, TX																
Administrative Leadtime (in Months): 11															Production Leadtime (in Months): 39																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Depot Field Team:: Installation Name: Block 3i																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		1 / 0.122		6 / 1.212		11 / 2.429		0 / 0.000		11 / 2.429		9 / 2.014		- / -		- / -		- / -		0 / 0.000		27 / 5.777							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		1 / 0.122		6 / 1.212		11 / 2.429		0 / 0.000		11 / 2.429		9 / 2.014		- / -		- / -		- / -		0 / 0.000		27 / 5.777							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	1	1	1	2	2	2	3	3	3	3	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Out	-	-	-	-	1	1	1	2	2	2	3	3	3	3	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Footnotes: ⁽¹⁾ Prior Years (FY15) contract award date is September 2015, with deliveries beginning in 4th Qtr FY17 . The funding associated with these Block 3i kits is inclusive of Block 3i hardware and software. Installation costs increase from FY17 to FY18 as the program directly funds the depots to assist in completing the installations. The Installation cost for FY18 increased \$0.036M and associated ILS and Other Support increased \$0.236M and \$0.214M respectively compared to PB18 request as the cost to install the Block 3i kits and associated labor had been historically erroneously reflected in OSIP 005-16.																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	359.999	24.075	33.301	32.081	0.000	32.081	31.976	38.960	41.526	44.786	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	359.999	24.075	33.301	32.081	0.000	32.081	31.976	38.960	41.526	44.786	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	359.999	24.075	33.301	32.081	0.000	32.081	31.976	38.960	41.526	44.786	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This effort (OSIP 023-14) funds retrofits due to concurrency changes to correct deficiencies discovered after DD-250 of the last aircraft in a given production lot. This includes modifications required to extend aircraft service life currently limited by low-life parts, and relieve capability limitations driven by concurrency of production with development. The concurrency funding line will procure the highest priority modifications from the Tri-Service Modification Prioritization List, as they become supportable from an engineering, production, and installation standpoint. The list is vetted by the Services and Partners every 6 months to ensure the list accurately reflects existing requirements as well as emerging issues. Per-kit costs will vary for each modification being implemented, and in some cases will also vary for aircraft from different LRIP lots to implement an individual modification. Total cost reflects procurement and installation costs in each fiscal year. Support costs include overall modification program planning, scheduling, management, recurring engineering; and support of Military and Service Depots and Depot Field Teams for incorporation of modifications. There are currently over 265 identified highest priority modifications throughout the STOVL fleet using funds from this OSIP.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> F-35 STOVL CONCURRENCY (OSIP 023-14)													
A Kits													
Recurring													
1.1.1) Structures - Organic ⁽²⁾	- / 141.013	- / 3.447	- / 10.238	- / 11.866	- / -	- / 11.866	- / 10.947	- / 14.772	- / 15.228	- / 16.285	Continuing	Continuing	
1.1.2) Concurrency - Organic	- / 37.302	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.302	
1.1.3) Mission Systems - Organic	- / 29.746	- / 2.000	- / 3.624	- / 4.874	- / -	- / 4.874	- / 4.125	- / 5.874	- / 6.684	- / 6.987	Continuing	Continuing	
1.1.4) Vehicle Systems - Organic	- / 39.573	- / -	- / 8.620	- / 3.823	- / -	- / 3.823	- / 3.867	- / 3.954	- / 4.857	- / 5.332	Continuing	Continuing	
1.1.5) Propulsion - Organic	- / 98.144	- / 8.000	- / 8.630	- / 4.654	- / -	- / 4.654	- / 4.785	- / 4.854	- / 4.896	- / 5.874	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 345.778	- / 13.447	- / 31.112	- / 25.217	- / -	- / 25.217	- / 23.724	- / 29.454	- / 31.665	- / 34.478	Continuing	Continuing	
<i>Subtotal: F-35 STOVL CONCURRENCY (OSIP 023-14)</i>	- / 345.778	- / 13.447	- / 31.112	- / 25.217	- / -	- / 25.217	- / 23.724	- / 29.454	- / 31.665	- / 34.478	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 345.778	- / 13.447	- / 31.112	- / 25.217	- / -	- / 25.217	- / 23.724	- / 29.454	- / 31.665	- / 34.478	Continuing	Continuing	
Support (All Modification Items)													
2.1) ILS	- / 8.574	- / 7.628	- / 1.268	- / 5.654	- / -	- / 5.654	- / 6.987	- / 7.341	- / 7.654	- / 7.784	Continuing	Continuing	
2.2) Other Support	- / 5.647	- / 3.000	- / 0.921	- / 1.210	- / -	- / 1.210	- / 1.265	- / 2.165	- / 2.207	- / 2.524	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 14.221	- / 10.628	- / 2.189	- / 6.864	- / -	- / 6.864	- / 8.252	- / 9.506	- / 9.861	- / 10.308	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	359.999	24.075	33.301	32.081	0.000	32.081	31.976	38.960	41.526	44.786	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0592 / F-35 STOVL Series			Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: F-35 STOVL CONCURRENCY (OSIP 023-14)							
Manufacturer Information							
Manufacturer Name: Various ⁽³⁾					Manufacturer Location: Various		
Administrative Leadtime <i>(in Months)</i> : 0					Production Leadtime <i>(in Months)</i> : 0		
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Footnotes: ⁽²⁾ Cost varies from year to year based on complexity of modifications and aircraft availability to perform modifications as required. Fact of Life adjustment is added for the Full Motion Video (FMV) capability to fulfill an urgent need to the fleet. This effort will start in FY18 and continue through FY23. FMV provides the capability to pass real-time video from aircraft to ground units to support Close Air Support (CAS). This is an existing capability on current aircraft that is required to support future ground operations. ⁽³⁾ Quantities and installation dates will vary with each concurrency modification.							

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 3 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.967	0.000	0.967	3.882	5.031	5.123	5.358	0.000	20.361
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.967	0.000	0.967	3.882	5.031	5.123	5.358	0.000	20.361
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.967	0.000	0.967	3.882	5.031	5.123	5.358	0.000	20.361
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: F-35 STOVL Correction of Deficiencies provides near and long term improvements to fielded F-35 jets, and focuses on correcting documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit performed by contractor artisans and organic support. In order to meet emerging deficiencies, the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve F-35 STOVL system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35 STOVL platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: The establishment of this OSIP is concurrent with the phase out of SDD in FY18 and after the declaration of IOC for the USMC, which was declared in July FY15. This OSIP will fund the incorporation of ECPs that are not associated with the concurrency program.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series						Modification Number / Title: 3 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)													
B Kits													
Recurring													
2.1.1) Correction of Defeciencies - Organic ⁽⁴⁾	- / -	- / -	- / -	- / 0.967	- / -	- / 0.967	- / 3.882	- / 5.031	- / 5.123	- / 5.358	- / -	- / 20.361	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 0.967	- / -	- / 0.967	- / 3.882	- / 5.031	- / 5.123	- / 5.358	- / 0.000	- / 20.361	
<i>Subtotal: F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)</i>	- / -	- / -	- / -	- / 0.967	- / -	- / 0.967	- / 3.882	- / 5.031	- / 5.123	- / 5.358	- / -	- / 20.361	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 0.967	- / -	- / 0.967	- / 3.882	- / 5.031	- / 5.123	- / 5.358	- / 0.000	- / 20.361	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.967	0.000	0.967	3.882	5.031	5.123	5.358	0.000	20.361	

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Exhibit P-3a, Individual Modification: PB 2019 Navy					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0592 / F-35 STOVL Series			Modification Number / Title: 3 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 1: F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Footnotes: ⁽⁴⁾ Cost varies from year to year based on complexity of modifications and aircraft availability to perform modifications as required.							

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series				Modification Number / Title: 4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 005-19)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.618	3.514	3.598	0.000	10.730
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.618	3.514	3.598	0.000	10.730
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.618	3.514	3.598	0.000	10.730
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program is established for the correction of readiness degraders impacting F-35 STOVL cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications (MODs) will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the F-35 STOVL Aircraft platform.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 005-19)				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: F-35 STOVL RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 005-19)</i>													
B Kits													
Recurring													
2.1.1) Reliability and Maintainability Maturation Program - Organic ⁽⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.618	- / 3.514	- / 3.598	- / -	- / 10.730	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.618	- / 3.514	- / 3.598	- / 0.000	- / 10.730	
<i>Subtotal: F-35 STOVL RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 005-19)</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.618	- / 3.514	- / 3.598	- / -	- / 10.730	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.618	- / 3.514	- / 3.598	- / 0.000	- / 10.730	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.618	3.514	3.598	0.000	10.730	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 005-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: F-35 STOVL RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 005-19)		

Footnotes:
(5) Cost varies from year to year based on complexity of modifications and aircraft availability to perform modifications as required.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0593 / F-35 CV Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: 0604800N, 0604810N, 0604840N				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 198												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	98.979	21.733	31.689	21.236	0.000	21.236	13.136	12.435	12.683	12.938	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	98.979	21.733	31.689	21.236	0.000	21.236	13.136	12.435	12.683	12.938	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	98.979	21.733	31.689	21.236	0.000	21.236	13.136	12.435	12.683	12.938	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The F-35 Joint Strike Fighter (JSF) Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Navy Carrier Variant (CV) correction of deficiencies effort provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field and depot retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate concurrency changes to sustain and improve F-35C system operations. Concurrency changes are implemented to coincide with resources and aircraft availability. Block upgrades provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35C platform. This modification program will bring early production aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program. The modification funding requested in FY19 enables several distinct efforts pertaining to the Navy F-35C aircraft to include post aircraft delivery concurrency retrofits, the block upgrade of hardware and software to a Block 3i configuration. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES The overlap of development with production and operations results in the need to manage a concurrency program and conduct retrofits on jets with life-limited parts or impacts to capabilities. For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of Systems Development and Demonstration (SDD) in the FY18 timeframe. Block 3i Fleet Release occurred 4th Qtr FY15.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy					Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft					P-1 Line Item Number / Title: 0593 / F-35 CV Series				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0604800N, 0604810N, 0604840N			Other Related Program Elements: N/A			

Line Item MDAP/MAIS Code: 198

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14) (Capability Improvement)				- / 56.472	- / 0.337	- / 2.134	- / 2.482	- / 0.000	- / 2.482
P-3a	2 / F-35 CV CONCURRENCY (OSIP 024-14) (Capability Improvement)				- / 42.507	- / 21.396	- / 29.555	- / 17.540	- / 0.000	- / 17.540
P-3a	3 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21) (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 1.214	- / 0.000	- / 1.214
P-3a	4 / F-35 CV RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 002-21) (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 98.979	- / 21.733	- / 31.689	- / 21.236	- / 0.000	- / 21.236

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14) (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 61.425
P-3a	2 / F-35 CV CONCURRENCY (OSIP 024-14) (Capability Improvement)				- / 11.795	- / 9.749	- / 9.506	- / 9.709	Continuing	Continuing
P-3a	3 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21) (Capability Improvement)				- / 1.341	- / 1.451	- / 1.523	- / 1.542	Continuing	Continuing
P-3a	4 / F-35 CV RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 002-21) (Capability Improvement)				- / 0.000	- / 1.235	- / 1.654	- / 1.687	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 13.136	- / 12.435	- / 12.683	- / 12.938	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Basis for FY 2019 budget request: FY19 Total Active Inventory of F-35C aircraft is 45. FY 2019 funding is requested to support the installation of Block 3i kits (Technical Refresh-2) and the highest priority concurrency modifications to support Initial Operational Test and Evaluation (IOT&E), USN Initial Operational Capability (IOC), pilot training and tactics development. IOC currently scheduled for August 2018.

The FY 2019 funding request was reduced by \$1.411M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 1 / F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	56.472	0.337	2.134	2.482	0.000	2.482	0.000	0.000	0.000	0.000	0.000	61.425
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	56.472	0.337	2.134	2.482	0.000	2.482	0.000	0.000	0.000	0.000	0.000	61.425
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	56.472	0.337	2.134	2.482	0.000	2.482	0.000	0.000	0.000	0.000	0.000	61.425
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The block upgrade program retrofits United States Navy F-35C aircraft and integrated systems procured under the Low Rate Initial Production (LRIP) contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration. This effort (OSIP 016-14) focuses on upgrading Blocks 2A and 2B aircraft from LRIPs 4-5 to a Block 3i configuration. Block 3i is a stepping stone to the Block 3F configuration. It includes the procurement of Tech Refresh 2 (TR2) hardware for the Block 3i configuration. The parts include new radar modules, new Integrated Core Processor (ICP) modules and rack, and new Electronic Warfare (EW) modules. The Gen III helmet will also be introduced as part of the Block 3i upgrade. This effort includes tooling and test equipment for Military Service Depots to support execution of the Block Upgrade program. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES Block 3i Fleet Release occurred 4th Q FY15. TR-2 Kit material delivery began 4th Qtr FY17.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series						Modification Number / Title: 1 / F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)													
B Kits													
Recurring													
1.1.1) EQUIPMENT Block 3i - NonOrganic ⁽¹⁾	12 / 44.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 44.720	
<i>Subtotal: Recurring</i>	- / 44.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 44.720	
<i>Subtotal: F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)</i>	12 / 44.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 44.720	
<i>Subtotal: Procurement, All Modification Items</i>	- / 44.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 44.720	
Support (All Modification Items)													
2.1) ILS	- / 3.901	- / 0.015	- / 0.166	- / 0.187	- / -	- / 0.187	- / -	- / -	- / -	- / -	- / -	- / 4.269	
2.2) Other Support	- / 4.676	- / -	- / 0.663	- / 0.754	- / -	- / 0.754	- / -	- / -	- / -	- / -	- / -	- / 6.093	
2.3) Training Equipment	- / 3.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.175	
<i>Subtotal: Support</i>	- / 11.752	- / 0.015	- / 0.829	- / 0.941	- / -	- / 0.941	- / -	- / -	- / -	- / -	- / 0.000	- / 13.537	
Installation													
<i>Modification Item 1 of 1:</i> F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)	- / 0.000	- / 0.322	- / 1.305	- / 1.541	- / 0.000	- / 1.541	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.168	
<i>Subtotal: Installation</i>	- / 0.000	- / 0.322	- / 1.305	- / 1.541	- / -	- / 1.541	- / -	- / -	- / -	- / -	- / 0.000	- / 3.168	
Total													
Total Cost (Procurement + Support + Installation)	56.472	0.337	2.134	2.482	0.000	2.482	0.000	0.000	0.000	0.000	0.000	61.425	

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0593 / F-35 CV Series										Modification Number / Title: 1 / F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin															Manufacturer Location: Fort Worth, TX																
Administrative Leadtime <i>(in Months)</i> : 11															Production Leadtime <i>(in Months)</i> : 31																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Depot Field Team:: Installation Name: Block 3i																															
Installation Cost		Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total		FY 2020		FY 2021		FY 2022		FY 2023		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		2 / 0.322		4 / 1.305		6 / 1.541		0 / 0.000		6 / 1.541		- / -		- / -		- / -		- / -		0 / 0.000		12 / 3.168							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		2 / 0.322		4 / 1.305		6 / 1.541		0 / 0.000		6 / 1.541		- / -		- / -		- / -		- / -		0 / 0.000		12 / 3.168							
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	2	1	1	1	1	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Out	-	-	-	-	2	1	1	1	1	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Footnotes: ⁽¹⁾ Prior Years (FY15) contract award date was Sept 2015, with deliveries beginning in 4th Qtr 2017. Programmatic delays in the contract award of Block 2B of eighteen (18) months, along with a delay in the development of Block 3i Hardware led to a delay in execution of FY15 funding. The funding associated with these Block 3i kits is inclusive of Block 3i hardware and software. Installation costs increase from																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 1 / F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
FY17 to FY18 because the program is directly funding the depots to assist in completing the installations. The Installation cost for FY18 increased by \$0.196M compared to PB18 request as the cost to install the Block 3i kits had been historically erroneously put in OSIP 005-17.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series						Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	42.507	21.396	29.555	17.540	0.000	17.540	11.795	9.749	9.506	9.709	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	42.507	21.396	29.555	17.540	0.000	17.540	11.795	9.749	9.506	9.709	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	42.507	21.396	29.555	17.540	0.000	17.540	11.795	9.749	9.506	9.709	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This effort (OSIP 024-14) funds retrofits due to concurrency changes to correct deficiencies discovered after DD-250 of the last aircraft in a given production lot. This includes modifications required to extend aircraft service life currently limited by low-life parts, and relieve capability limitations driven by concurrency of production with development. The concurrency funding line will procure the highest priority modifications from the Tri-Service Modification Prioritization List, as they become supportable from an engineering, production, and installation standpoint. The list is vetted by the Services and Partners every 6 months to ensure the list accurately reflects existing requirements as well as emerging issues. Per-kit costs will vary for each modification being implemented, and in some cases will also vary for aircraft from different LRIP lots to implement an individual modification. Total cost reflects procurement and installation costs in each fiscal year. Support costs include overall modification program planning, scheduling, and management; and support of Military and Service Depots and Depot Field Teams for incorporation of modifications. There are currently over 215 identified highest priority modifications throughout the CV fleet using funds from this OSIP. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of SDD in the FY18 timeframe.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> F-35 CV CONCURRENCY (OSIP 024-14)													
A Kits													
Recurring													
1.1.1) Structures - Organic ⁽²⁾	- / 21.998	- / 13.457	- / 15.410	- / 6.557	- / -	- / 6.557	- / 4.779	- / 5.269	- / 5.311	- / 5.452	Continuing	Continuing	
1.1.2) Concurrency - Organic	- / 2.336	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.336	
1.1.3) Mission Systems - Organic	- / 3.368	- / 2.924	- / 3.295	- / 2.401	- / -	- / 2.401	- / 0.971	- / 0.401	- / 0.409	- / 0.421	Continuing	Continuing	
1.1.4) Vehicle Systems - Organic	- / 5.811	- / 4.658	- / 3.893	- / 2.354	- / -	- / 2.354	- / 1.036	- / 0.428	- / 0.437	- / 0.445	Continuing	Continuing	
1.1.5) Propulsion - Organic	- / 6.178	- / -	- / 2.563	- / 2.765	- / -	- / 2.765	- / 2.742	- / 2.713	- / 2.394	- / 2.402	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 39.691	- / 21.039	- / 25.161	- / 14.077	- / -	- / 14.077	- / 9.528	- / 8.811	- / 8.551	- / 8.720	Continuing	Continuing	
<i>Subtotal: F-35 CV CONCURRENCY (OSIP 024-14)</i>	- / 39.691	- / 21.039	- / 25.161	- / 14.077	- / -	- / 14.077	- / 9.528	- / 8.811	- / 8.551	- / 8.720	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 39.691	- / 21.039	- / 25.161	- / 14.077	- / -	- / 14.077	- / 9.528	- / 8.811	- / 8.551	- / 8.720	Continuing	Continuing	
Support (All Modification Items)													
2.1) Other Support	- / 0.960	- / 0.357	- / 2.197	- / 1.710	- / -	- / 1.710	- / 0.843	- / 0.349	- / 0.355	- / 0.369	Continuing	Continuing	
2.2) ILS	- / 1.856	- / -	- / 2.197	- / 1.753	- / -	- / 1.753	- / 1.424	- / 0.589	- / 0.600	- / 0.620	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 2.816	- / 0.357	- / 4.394	- / 3.463	- / -	- / 3.463	- / 2.267	- / 0.938	- / 0.955	- / 0.989	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	42.507	21.396	29.555	17.540	0.000	17.540	11.795	9.749	9.506	9.709	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: F-35 CV CONCURRENCY (OSIP 024-14)		
Footnotes: ⁽²⁾ Cost varies from year to year based on complexity of modifications and aircraft availability to perform modifications as required.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 3 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	1.214	0.000	1.214	1.341	1.451	1.523	1.542	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	1.214	0.000	1.214	1.341	1.451	1.523	1.542	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	1.214	0.000	1.214	1.341	1.451	1.523	1.542	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: F-35 CV Correction of Deficiencies provides near and long term improvements to fielded F-35 jets, and focuses on correcting documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit performed by contractor artisans and organic support. In order to meet emerging deficiencies, the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve F-35C system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35C platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: The establishment of this OSIP is concurrent with the phase out of SDD in FY18 and after the declaration of Initial Operational Capability (IOC) for the USN CV in August 2018. This OSIP will fund the incorporation of ECPs that are not associated with the concurrency program.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series						Modification Number / Title: 3 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)													
B Kits													
Recurring													
2.1.1) Correction of Deficiencies - Organic	- / -	- / -	- / -	- / 1.214	- / -	- / 1.214	- / 1.341	- / 1.451	- / 1.523	- / 1.542	Continuing	Continuing	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.214</i>	<i>- / -</i>	<i>- / 1.214</i>	<i>- / 1.341</i>	<i>- / 1.451</i>	<i>- / 1.523</i>	<i>- / 1.542</i>	<i>Continuing</i>	<i>Continuing</i>	
<i>Subtotal: F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.214</i>	<i>- / -</i>	<i>- / 1.214</i>	<i>- / 1.341</i>	<i>- / 1.451</i>	<i>- / 1.523</i>	<i>- / 1.542</i>	<i>Continuing</i>	<i>Continuing</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.214</i>	<i>- / -</i>	<i>- / 1.214</i>	<i>- / 1.341</i>	<i>- / 1.451</i>	<i>- / 1.523</i>	<i>- / 1.542</i>	<i>Continuing</i>	<i>Continuing</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	1.214	0.000	1.214	1.341	1.451	1.523	1.542	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 3 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)		

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 4 / F-35 CV RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 002-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.235	1.654	1.687	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.235	1.654	1.687	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.235	1.654	1.687	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program is established for the correction of readiness degraders impacting F-35 CV cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the F-35C Aircraft platform.

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 4 / F-35 CV RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 002-21)				
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> F-35 CV RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 002-21)													
B Kits													
Recurring													
2.1.1) Reliability and Maintainability Maturation Program - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.235	- / 1.654	- / 1.687	Continuing	Continuing	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.235</i>	<i>- / 1.654</i>	<i>- / 1.687</i>	<i>Continuing</i>	<i>Continuing</i>	
<i>Subtotal: F-35 CV RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 002-21)</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.235</i>	<i>- / 1.654</i>	<i>- / 1.687</i>	<i>Continuing</i>	<i>Continuing</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.235</i>	<i>- / 1.654</i>	<i>- / 1.687</i>	<i>Continuing</i>	<i>Continuing</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.235	1.654	1.687	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 002-21)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: F-35 CV RELIABILITY AND MAINTAINABILITY MATURATION PROGRAM (OSIP 002-21)		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy	Date: February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0595 / QRC

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	14.376	39.916	101.499	2.410	103.909	164.506	127.067	17.405	17.726	-	484.905
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	14.376	39.916	101.499	2.410	103.909	164.506	127.067	17.405	17.726	-	484.905
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	14.376	39.916	101.499	2.410	103.909	164.506	127.067	17.405	17.726	-	484.905
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Details of this P-1 item are classified.

Justification:

Justification of this request is provided separately.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0596 / MQ-4 Series

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305220N, 0305421N	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: 373

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	39.996	48.278	0.000	48.278	7.793	0.000	0.000	0.000	-	96.067
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	39.996	48.278	0.000	48.278	7.793	0.000	0.000	0.000	-	96.067
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	39.996	48.278	0.000	48.278	7.793	0.000	0.000	0.000	-	96.067
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the baseline MQ-4C Triton Unmanned Air System (UAS) to deliver the Multi-Intelligence (Multi-INT) configuration. MQ-4C Triton aircraft and ground stations in the Multi-INT configuration are integral to the Navy's Intelligence, Surveillance, and Reconnaissance (ISR) transition plan. Modifications will include sensor, electronics and communication subsystems that provide Triton's Integrated Functional Capability 4, Multi-Intelligence configuration.

The MQ-4C Triton Unmanned Air Systems (UAS) is integral to recapitalizing the Navy's Maritime Patrol and Reconnaissance Force. The MQ-4C Triton UAS provides a persistent maritime and littoral Intelligence, Surveillance, and Reconnaissance (ISR) data collection and dissemination capability to the fleet, serving as a force multiplier for the Joint Force and Fleet Commander, enhancing situational awareness of the battle space and shortening the sensor-to-shooter kill chain. Teamed with its manned-capability counterpart, the P-8A, Triton will be a key component of the Navy's family of systems to achieve maritime domain awareness. The MQ-4C air vehicle, mission control system, specialized sensors, and communications suite will play a significant role in achieving the Navy's strategic vision for the 21st century. The Triton system as a persistence ISR enabler provides the supported combatant commander and fleet commander with unparalleled situational awareness of the maritime battle space to develop and sustain the common operational tactical picture. The system will also serve as a Fleet response plan enabler with a persistent, global force offering to provide critical trip wire information for intelligence preparation of the environment. Triton will connect to both the Global Information Grid and the Distributed Common Ground System-Navy information backbone to provide the Warfighter with unprecedented levels of battlespace awareness to synchronize actions necessary to maintain maritime Full Spectrum Superiority. Triton's on-station time and range enables unmatched awareness of the maritime battlespace by sustaining the common operational tactical picture (COTP) for Surface Warfare and the Overseas Contingency Operation.

MQ-4C Triton includes an endurance-class UAS that will operate from land-based sites around the world. Unmanned aircraft at each operating location will provide persistent maritime ISR by being airborne 24 hours a day, 7 days a week out to ranges of 2,000 nautical miles. Worldwide access will be achieved by providing coverage to nearly all the world's high-density sea-lanes, littorals and areas of national interest from its operating locations. Triton will leverage the Maritime Patrol and Reconnaissance Forces community to enhance manpower, training and maintenance efficiencies.

MQ-4C Triton UAS sensors will provide detection, classification, tracking and identification of maritime targets. Sensors to fulfill mission requirements include maritime radar, electro-optical/infrared and Electronic Support Measures systems. Additionally, Triton will have a communications relay capability linking dispersed forces in the theater of operation and serving as a node in the Navy's networked strategy. The MQ-4C Triton UAS will support the Fleet Commander's common operational tactical picture COTP of the battlespace, day and night. The UAS will cue other Navy assets for further situational investigation and/or attack, and will also provide battle damage assessment of the area of interest. Tactical-level data analysis will occur in real-time at shore-based Mission Control Systems via satellite communications. Further intelligence exploitation can be conducted at shore-based sites or aboard Carrier Vessel Nuclear/Landing Helicopter Dock ships.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0596 / MQ-4 Series
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305220N, 0305421N	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 373		
The aircraft inventory objective for the MQ-4C Triton at the start of FY2019 is projected to be 2 System Development and Demonstration Test aircraft and 2 LRIP aircraft.		
MS-C: 4Q FY16 DT&E: 4Q FY12 - 4Q FY20 OT&E: 1Q FY21 - 2Q FY21		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0596 / MQ-4 Series				
ID Code (A=Service Ready, B=Not Service Ready): B				Program Elements for Code B Items: 0305220N, 0305421N			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: 373										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-4C Triton Upgrades (OSIP 009-18) (Added capability)				- / 0.000	- / 0.000	- / 39.996	- / 48.278	- / 0.000	- / 48.278
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 39.996	- / 48.278	- / 0.000	- / 48.278
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-4C Triton Upgrades (OSIP 009-18) (Added capability)				- / 7.793	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 96.067
P-40	Total Gross/Weapon System Cost				- / 7.793	- / 0.000	- / 0.000	- / 0.000	- / -	- / 96.067
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

FY19 request resources hardware and installation costs to upgrade aircraft and ground stations to the Integrated Functional Capability 4 configuration.

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0596 / MQ-4 Series					Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	39.996	48.278	0.000	48.278	7.793	0.000	0.000	0.000	0.000	96.067
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	39.996	48.278	0.000	48.278	7.793	0.000	0.000	0.000	0.000	96.067
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	39.996	48.278	0.000	48.278	7.793	0.000	0.000	0.000	0.000	96.067
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The purpose of this OSIP is to upgrade LRIP 1 and LRIP 2 aircraft and ground stations (Main Operating Base (MOB) and Forward Operating Base (FOB)) to the Integrated Functional Capability (IFC) 4 configuration. The technical components of the IFC 4.0 retrofits for the unmanned aircraft include: addition of the High Band Chassis (replaces the Aircraft Identification System transponder and Electronic Support Measure), new Low Band Chassis (includes two Radio Frequency Distribution boxes for Band B and C), addition of Signals Intelligence (SIGINT) antennas, new High Gain Common Data Link (CDL) antenna (replaces existing CDL antennas), addition of a Keyed Broad Area Maritime Surveillance Airborne Recorder (K-BAR) (with TS/SCI classification level), new Airborne Mission Processor (replaces existing Advanced Mission Management System), addition of one advanced digital network services router package shaper assembly, addition of one Ruggedized Inmarsat Dedicated Router, addition of a TS high assurance internet protocol encryptor (HAIPE) (replaces existing HAIPE), new TS Voice Radio, and new Cross Domain Solution (CDS), a new design of the Multi-Function Active Sensor radome, CDL radome, and a new Electromagnetic Interference hat radome. The technical components of the IFC 4.0 retrofits for the MOB/FOB include: addition of a KBAR docking station, addition of SIGINT workstation servers, addition of CDS, and addition of Sensitive Compartmented Information Facility (SCIF) hardware. Development Status/Major Development Milestones: Multi-Intelligence Early Operational Capability FY 2020 and Triton Initial Operational Capability FY 2021.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0596 / MQ-4 Series						Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: MQ-4C Triton				Modification Type: Added capability				Related RDT&E PEs: 0305421N					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: MQ-4C Triton Upgrades (OSIP 009-18)													
A Kits													
Recurring													
1.1.1) IFC 4 aircraft upgrade - NonOrganic ⁽¹⁾	- / -	- / -	2 / 7.523	2 / 7.673	- / -	2 / 7.673	- / -	- / -	- / -	- / -	- / -	4 / 15.196	
Subtotal: Recurring	- / 0.000	- / -	- / 7.523	- / 7.673	- / -	- / 7.673	- / -	- / -	- / -	- / -	- / 0.000	- / 15.196	
B Kits													
Recurring													
2.1.1) IFC 4 Aircraft Upgrade B kit - Organic	- / -	- / -	2 / 17.395	2 / 17.743	- / -	2 / 17.743	- / -	- / -	- / -	- / -	- / -	4 / 35.138	
2.1.2) IFC 4 Main and Forward Operating Base upgrade - NonOrganic ⁽²⁾	- / -	- / -	2 / 11.868	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 11.868	
Subtotal: Recurring	- / 0.000	- / -	- / 29.263	- / 17.743	- / -	- / 17.743	- / -	- / -	- / -	- / -	- / 0.000	- / 47.006	
Subtotal: MQ-4C Triton Upgrades (OSIP 009-18)	- / -	- / -	6 / 36.786	4 / 25.416	- / -	4 / 25.416	- / -	- / -	- / -	- / -	- / -	10 / 62.202	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 36.786	- / 25.416	- / -	- / 25.416	- / -	- / -	- / -	- / -	- / 0.000	- / 62.202	
Support (All Modification Items)													
3.1) Other Support ⁽³⁾	- / -	- / -	- / 3.210	- / 0.900	- / -	- / 0.900	- / 0.900	- / -	- / -	- / -	- / -	- / 5.010	
Subtotal: Support	- / 0.000	- / -	- / 3.210	- / 0.900	- / -	- / 0.900	- / 0.900	- / -	- / -	- / -	- / 0.000	- / 5.010	
Installation													
Modification Item 1 of 1: MQ-4C Triton Upgrades (OSIP 009-18)	- / 0.000	- / 0.000	- / 0.000	- / 21.962	- / 0.000	- / 21.962	- / 6.893	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 28.855	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 21.962	- / -	- / 21.962	- / 6.893	- / -	- / -	- / -	- / 0.000	- / 28.855	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	39.996	48.278	0.000	48.278	7.793	0.000	0.000	0.000	0.000	96.067	

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0596 / MQ-4 Series				Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: MQ-4C Triton Upgrades (OSIP 009-18)												
Manufacturer Information												
Manufacturer Name: Multiple Manufacturers-Aircraft Upgrade							Manufacturer Location: Various					
Administrative Leadtime (in Months): 5							Production Leadtime (in Months): 12					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates		Feb 2018	Feb 2019									
Delivery Dates		Feb 2019	Feb 2020									
Manufacturer Name: Multiple Manufacturers - Operating Base							Manufacturer Location: Various					
Administrative Leadtime (in Months): 5							Production Leadtime (in Months): 12					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates		Feb 2018	Feb 2019									
Delivery Dates		Feb 2019	Feb 2020									
Manufacturer Name: TBD							Manufacturer Location: TBD					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 0					
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation: Contractor:: Installation Name: IFC 4 aircraft upgrade												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	2 / 13.770	0 / 0.000	2 / 13.770	- / -	- / -	- / -	- / -	0 / 0.000	2 / 13.770
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.893	- / -	- / -	- / -	0 / 0.000	1 / 6.893
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 13.770	0 / 0.000	2 / 13.770	1 / 6.893	- / -	- / -	- / -	0 / 0.000	3 / 20.663

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Exhibit P-3a, Individual Modification: PB 2019 Navy																							Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1											P-1 Line Item Number / Title: 0596 / MQ-4 Series											Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: MQ-4C Triton Upgrades (OSIP 009-18)																															
Installation Information																															
Method of Implementation: Contractor:: Installation Name: IFC 4 aircraft upgrade																															
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	3		
Method of Implementation: Contractor:: Installation Name: IFC 4 Main and Forward Operating Base upgrade																															
Installation Cost		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	2 / 8.192	0 / 0.000	2 / 8.192	- / -	- / -	- / -	- / -	0 / 0.000	2 / 8.192																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	2 / 8.192	0 / 0.000	2 / 8.192	- / -	- / -	- / -	- / -	0 / 0.000	2 / 8.192																		
Installation Schedule																															
	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
In	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
Method of Implementation (Organic): IFC 4 Aircraft Upgrade B kit - Not Installed														Installation Quantity: 4																	
Footnotes:																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(1) Funding for the 4th aircraft installation will be provided in FY20 budget. (2) Main and Forward Operating Base installation upgrade can be completed in parallel with IFC 4 aircraft installation upgrade. (3) Other Support funds government support to aircraft modification, installation, calibration and testing required for acceptance.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft							P-1 Line Item Number / Title: 0598 / RQ-21 Series					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	6.904	17.215	24.119	11.870	16.231	6.316	6.348	-	64.884
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	6.904	17.215	24.119	11.870	16.231	6.316	6.348	-	64.884
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	6.904	17.215	24.119	11.870	16.231	6.316	6.348	-	64.884
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This is an FY19 new start. The requirement for the RQ-21A Unmanned Aircraft System is defined in a Capability Development Document, dated 18 November 2008 and further defined in the Capability Production Document, dated 15 February 2013. The RQ-21A program entered the Engineering and Manufacturing Development (EMD) phase of the acquisition process as an Acquisition Category III program on 26 July 2010. On 19 August 2014 RQ-21A was designated and Acquisition Category II program. The RQ-21A system provides the Marine Expeditionary Force and subordinate commands (divisions and regiments) a dedicated Intelligence, Surveillance, and Reconnaissance system capable of delivering intelligence products directly to the tactical commander in real time. The RQ-21A system is capable of providing actionable intelligence and communications relay for 12-hour continuous operations per day with a short surge capability of 24-hours continuous operations for 10 days. The system has an operating radius of 50 nautical miles, further extendable through hub and spoke operations. The Air Vehicle is capable of airspeeds up to 80 nautical miles per hour with a service ceiling of 15,000 feet. The Marine Corps will have a quantity of 21 RQ-21 systems procured by FY18. There are no future plans to buy more RQ-21 systems at this time, but attrition air vehicles will be procured. An RQ-21A system consists of five air vehicles, two ground control stations, modular multi-mission plug and play payloads, one launcher, one recovery system, and support equipment. Standard payloads include a turret mounted Electro Optic/Infrared (EO/IR) camera and a communications relay package with automated identification ship capability, carried in the payload bay. The RQ-21A system will continue to evolve and upgrade capabilities to satisfy capability shortfalls, new requirements, and reliability, maintainability, and safety issues. Upgraded capabilities may include Navy Command and Control integration, Weapons Integration, Heavy Fuel Engine, Laser Designator, Frequency Agile Communications Relay, Digital Common Data Link, new launch and recovery methods, parts durability and manufacturability, and cyclic refresh of the Electro-Optical/Infrared (EO/IR) camera.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft						P-1 Line Item Number / Title: 0598 / RQ-21 Series				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Correction Of Deficiencies (004-20) (Correction of Deficiencies)				- / 0.000	- / 0.000	- / 0.000	- / 6.904	- / 17.215	- / 24.119
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 6.904	- / 17.215	- / 24.119
Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Correction Of Deficiencies (004-20) (Correction of Deficiencies)				- / 11.870	- / 16.231	- / 6.316	- / 6.348	- / 0.000	- / 64.884
P-40	Total Gross/Weapon System Cost				- / 11.870	- / 16.231	- / 6.316	- / 6.348	- / -	- / 64.884
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
 FY2019 Base Appropriation Request: \$6.904M

FY2019 baseline funds are required to retrofit one (1) of the NSW RQ-21A systems with the EO/IR5 system to include laser designator capability and corrected extruded mast deficiencies in five (5) RQ-21A systems.

OCO:
 FY2019 OCO Request: \$17.215M

FY2019 OCO funds are required to retrofit five (5) of the NSW RQ-21A systems with the EO/IR5 system to include laser designator capability and corrected extruded mast deficiencies in three (3) RQ-21A systems. OCO requirements are in support of Operation Freedom Sentinel (OFS) in theater operations.

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Exhibit P-3a, Individual Modification: PB 2019 Navy						Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0598 / RQ-21 Series				Modification Number / Title: 1 / Correction Of Deficiencies (004-20)			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.000	0.000	6.904	17.215	24.119	11.870	16.231	6.316	6.348	0.000	64.884
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	0.000	0.000	6.904	17.215	24.119	11.870	16.231	6.316	6.348	0.000	64.884
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	0.000	0.000	6.904	17.215	24.119	11.870	16.231	6.316	6.348	0.000	64.884
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

RQ-21 Blackjack Correction of Deficiencies provides near and long term improvements to fielded RQ-21 systems, and focuses on correcting documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit performed by contractor artisans and organic support. In order to meet emerging deficiencies, the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes in order to sustain and improve RQ-21 system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the RQ-21 platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure.

Base funds in FY19-FY20 will be used to the modify the current welded mast sections of the recovery systems with extruded aluminum masts sections which are more durable for the USMC systems. This will strengthen the recovery mast and addresses critical safety concerns. Each RQ-21 system contains one recovery system.

Base funds in FY19-FY23 will be used to modify the current Electro Optical/Infrared camera turret to include a Laser Designator for USMC systems. The retrofit will modify approximately 60% of all USMC air vehicles with the rest being upgraded through attrition.

FY19 OCO funds will be used to perform the same extruded mast and Laser Designator retrofits for NSW systems. FY19 OCO funding will retrofit three of the four recovery systems requiring and retrofit 50% of the air vehicles with Laser Designator capability.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:
USMC IOC 2nd QTR 2016; Full Rate Production Decision 1st QTR 2017

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0598 / RQ-21 Series	Modification Number / Title: 1 / Correction Of Deficiencies (004-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Correction Of Deficiencies (004-20)		
Footnotes: (1) Each upgrade kit contains 5 turrets to retrofit all 5 air vehicles in a RQ-21A system. (2) Mast upgrades quantities reflect upgrades per RQ-21A system. (3) Includes engineering and logistics support required to properly prepare and execute system retrofits.		

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