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

February 2018



Navy

Justification Book Volume 5 of 5

Other Procurement, Navy

BA 5-8

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The estimated cost for this report for the Department of the Navy (DON) is \$27,157.

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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Navy • Budget Estimates FY 2019 • Procurement

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Department of Defense Appropriations Act, 2019

Other Procurement, Navy

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of passenger motor vehicles for replacement only; 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, \$9,601,528,000, 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 -----
Other Procurement, Navy	6,651,966	6,585,009	6,210,084	251,083
Total Department of the Navy	6,651,966	6,585,009	6,210,084	251,083

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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 -----
Other Procurement, Navy	251,083	25,750		25,750
Total Department of the Navy	251,083	25,750		25,750

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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 -----
Other Procurement, Navy	6,461,167		6,461,167
Total Department of the Navy	6,461,167		6,461,167

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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 -----
Other Procurement, Navy	9,414,355	187,173	9,601,528
Total Department of the Navy	9,414,355	187,173	9,601,528

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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: Other 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. Ships Support Equipment	2,145,022	3,076,818	2,711,893	30,348
02. Communications & Electronics Equip	2,088,792	2,565,260	2,555,260	62,622
03. Aviation Support Equipment	418,972	441,542	441,542	29,245
04. Ordnance Support Equipment	1,010,342	929,371	929,371	34,406
05. Civil Engineering Support Equip	80,041	99,619	99,619	5,136
06. Supply Support Equipment	317,564	510,285	510,285	584
07. Personnel & Command Support Equip	391,606	376,329	376,329	56,540
08. Spares and Repair Parts	199,627	278,565	278,565	1,178
20. Undistributed		-1,692,780	-1,692,780	31,024
Total Other Procurement, Navy	6,651,966	6,585,009	6,210,084	251,083

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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: Other 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. Ships Support Equipment	30,348			
02. Communications & Electronics Equip	65,722	15,000		15,000
03. Aviation Support Equipment	29,245			
04. Ordnance Support Equipment	62,806			
05. Civil Engineering Support Equip	5,136			
06. Supply Support Equipment	584			
07. Personnel & Command Support Equip	56,540	10,750		10,750
08. Spares and Repair Parts	1,178			
20. Undistributed	-476			
Total Other Procurement, Navy	251,083	25,750		25,750

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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: Other 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. Ships Support Equipment	2,742,241		2,742,241
02. Communications & Electronics Equip	2,635,982		2,635,982
03. Aviation Support Equipment	470,787		470,787
04. Ordnance Support Equipment	992,177		992,177
05. Civil Engineering Support Equip	104,755		104,755
06. Supply Support Equipment	510,869		510,869
07. Personnel & Command Support Equip	443,619		443,619
08. Spares and Repair Parts	279,743		279,743
20. Undistributed	-1,719,006		-1,719,006
Total Other Procurement, Navy	6,461,167		6,461,167

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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: Other Procurement, Navy

Budget Activity -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
01. Ships Support Equipment	3,180,536	28,260	3,208,796
02. Communications & Electronics Equip	3,176,305	62,150	3,238,455
03. Aviation Support Equipment	502,933	21,156	524,089
04. Ordnance Support Equipment	1,047,675	33,580	1,081,255
05. Civil Engineering Support Equip	112,448	8,638	121,086
06. Supply Support Equipment	604,532	500	605,032
07. Personnel & Command Support Equip	463,088	32,889	495,977
08. Spares and Repair Parts	326,838		326,838
20. Undistributed			
Total Other Procurement, Navy	9,414,355	187,173	9,601,528

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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: 1810N Other 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 01: Ships Support Equipment							

Ship Propulsion Equipment							
1	Surface Power Equipment	A	15,514	41,910	41,910		U
2	Hybrid Electric Drive (HED)		10,983	6,331	6,331		U
Generators							
3	Surface Combatant HM&E	A	27,447	27,392	27,392		U
Navigation Equipment							
4	Other Navigation Equipment	A	62,970	65,943	65,943		U
Other Shipboard Equipment							
5	Sub Periscope, Imaging and Supt Equip Prog	A	151,963	151,240	151,240		U
6	DDG Mod	A	429,614	603,355	603,355		U
7	Firefighting Equipment	A	13,752	15,887	15,887		U
8	Command and Control Switchboard	A	2,140	2,240	2,240		U
9	LHA/LHD Midlife	A	22,768	30,287	4,287		U
10	Pollution Control Equipment	B	16,510	17,293	17,293		U
11	Submarine Support Equipment	A	8,995	27,990	27,990		U
12	Virginia Class Support Equipment	A	63,908	46,610	46,610		U
13	LCS Class Support Equipment		43,819	47,955	47,955		U
14	Submarine Batteries		22,459	17,594	17,594		U

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

Appropriation: 1810N Other 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
Budget Activity 01: Ships Support Equipment											
Ship Propulsion Equipment											
1	Surface Power Equipment	A									U
2	Hybrid Electric Drive (HED)										U
Generators											
3	Surface Combatant HM&E	A									U
Navigation Equipment											
4	Other Navigation Equipment	A									U
Other Shipboard Equipment											
5	Sub Periscope, Imaging and Supt Equip Prog	A									U
6	DDG Mod	A									U
7	Firefighting Equipment	A									U
8	Command and Control Switchboard	A									U
9	LHA/LHD Midlife	A									U
10	Pollution Control Equipment	B									U
11	Submarine Support Equipment	A									U
12	Virginia Class Support Equipment	A									U
13	LCS Class Support Equipment										U
14	Submarine Batteries										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: 1810N Other 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
----	-----	-----	-----	-----	-----	-
Budget Activity 01: Ships Support Equipment						

Ship Propulsion Equipment						
1	Surface Power Equipment	A	41,910		41,910	U
2	Hybrid Electric Drive (HED)		6,331		6,331	U
Generators						
3	Surface Combatant HM&E	A	27,392		27,392	U
Navigation Equipment						
4	Other Navigation Equipment	A	65,943		65,943	U
Other Shipboard Equipment						
5	Sub Periscope, Imaging and Supt Equip Prog	A	151,240		151,240	U
6	DDG Mod	A	603,355		603,355	U
7	Firefighting Equipment	A	15,887		15,887	U
8	Command and Control Switchboard	A	2,240		2,240	U
9	LHA/LHD Midlife	A	4,287		4,287	U
10	Pollution Control Equipment	B	17,293		17,293	U
11	Submarine Support Equipment	A	27,990		27,990	U
12	Virginia Class Support Equipment	A	46,610		46,610	U
13	LCS Class Support Equipment		47,955		47,955	U
14	Submarine Batteries		17,594		17,594	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: 1810N Other 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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Budget Activity 01: Ships Support Equipment									

Ship Propulsion Equipment									
1	Surface Power Equipment	A		19,700			19,700		U
2	Hybrid Electric Drive (HED)								U
Generators									
3	Surface Combatant HM&E	A		23,495			23,495		U
Navigation Equipment									
4	Other Navigation Equipment	A		63,330			63,330		U
Other Shipboard Equipment									
5	Sub Periscope, Imaging and Supt Equip Prog	A		178,421			178,421		U
6	DDG Mod	A		487,999			487,999		U
7	Firefighting Equipment	A		28,143			28,143		U
8	Command and Control Switchboard	A		2,248			2,248		U
9	LHA/LHD Midlife	A		37,694			37,694		U
10	Pollution Control Equipment	B		20,883			20,883		U
11	Submarine Support Equipment	A		37,155			37,155		U
12	Virginia Class Support Equipment	A		66,328			66,328		U
13	LCS Class Support Equipment			47,241			47,241		U
14	Submarine Batteries			27,987			27,987		U

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

Appropriation: 1810N Other 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
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15	LPD Class Support Equipment		32,052	61,908	61,908		U
16	DDG 1000 Class Support Equipment	A	33,404				U
17	Strategic Platform Support Equip	A	14,571	15,812	15,812		U
18	DSSP Equipment	A	806	4,178	4,178		U
19	CG Modernization	A	319,920	306,050	306,050		U
20	LCAC	A	3,090	5,507	5,507		U
21	Underwater EOD Programs		34,650	55,922	55,922	12,348	U
22	Items Less Than \$5 Million	A	65,994	96,909	96,909		U
23	Chemical Warfare Detectors	A	2,873	3,036	3,036		U
24	Submarine Life Support System	A	4,543	10,364	10,364		U
	Reactor Plant Equipment						
25	Reactor Power Units	A		324,925			U
26	Reactor Components	A	342,158	534,468	534,468		U
	Ocean Engineering						
27	Diving and Salvage Equipment	A	8,176	10,619	10,619		U
	Small Boats						
28	Standard Boats	A	59,033	46,094	46,094	18,000	U
	Production Facilities Equipment						
29	Operating Forces Ipe	A	71,921	191,541	191,541		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: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
15	LPD Class Support Equipment										U
16	DDG 1000 Class Support Equipment	A									U
17	Strategic Platform Support Equip	A									U
18	DSSP Equipment	A									U
19	CG Modernization	A									U
20	LCAC	A									U
21	Underwater EOD Programs			12,348							U
22	Items Less Than \$5 Million	A									U
23	Chemical Warfare Detectors	A									U
24	Submarine Life Support System	A									U
	Reactor Plant Equipment										
25	Reactor Power Units	A									U
26	Reactor Components	A									U
	Ocean Engineering										
27	Diving and Salvage Equipment	A									U
	Small Boats										
28	Standard Boats	A		18,000							U
	Production Facilities Equipment										
29	Operating Forces Ipe	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: 1810N Other 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
----	-----	-----	-----	-----	-----	-
15	LPD Class Support Equipment		61,908		61,908	U
16	DDG 1000 Class Support Equipment	A				U
17	Strategic Platform Support Equip	A	15,812		15,812	U
18	DSSP Equipment	A	4,178		4,178	U
19	CG Modernization	A	306,050		306,050	U
20	LCAC	A	5,507		5,507	U
21	Underwater EOD Programs		68,270		68,270	U
22	Items Less Than \$5 Million	A	96,909		96,909	U
23	Chemical Warfare Detectors	A	3,036		3,036	U
24	Submarine Life Support System	A	10,364		10,364	U
	Reactor Plant Equipment					
25	Reactor Power Units	A				U
26	Reactor Components	A	534,468		534,468	U
	Ocean Engineering					
27	Diving and Salvage Equipment	A	10,619		10,619	U
	Small Boats					
28	Standard Boats	A	64,094		64,094	U
	Production Facilities Equipment					
29	Operating Forces Ipe	A	191,541		191,541	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: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-
15	LPD Class Support Equipment			65,033				65,033	U
16	DDG 1000 Class Support Equipment	A		89,700				89,700	U
17	Strategic Platform Support Equip	A		22,254				22,254	U
18	DSSP Equipment	A		3,629				3,629	U
19	CG Modernization	A		276,446				276,446	U
20	LCAC	A		3,709				3,709	U
21	Underwater EOD Programs			78,807		9,200		88,007	U
22	Items Less Than \$5 Million	A		126,865				126,865	U
23	Chemical Warfare Detectors	A		2,966				2,966	U
24	Submarine Life Support System	A		11,968				11,968	U
	Reactor Plant Equipment								
25	Reactor Power Units	A		346,325				346,325	U
26	Reactor Components	A		497,063				497,063	U
	Ocean Engineering								
27	Diving and Salvage Equipment	A		10,706				10,706	U
	Small Boats								
28	Standard Boats	A		49,771		19,060		68,831	U
	Production Facilities Equipment								
29	Operating Forces Ipe	A		225,181				225,181	U

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

Appropriation: 1810N Other 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
----	-----	-----	-----	-----	-----	-----	-
	Other Ship Support						
30	Nuclear Alterations	A	172,718				U
31	LCS Common Mission Modules Equipment		14,670	34,666	34,666		U
32	LCS MCM Mission Modules		29,724	55,870	55,870		U
33	LCS ASW Mission Modules						U
34	LCS SUW Mission Modules		21,064	52,960	52,960		U
35	LCS In-Service Modernization	A		74,426	74,426		U
	Logistic Support						
36	LSD Midlife & Modernization		20,813	89,536	75,536		U
	Total Ships Support Equipment		2,145,022	3,076,818	2,711,893	30,348	
	Budget Activity 02: Communications & Electronics Equip						
	Ship Sonars						
37	SPQ-9B Radar	A	10,376	30,086	20,086		U
38	AN/SQQ-89 Surf ASW Combat System	A	87,824	102,222	102,222		U
39	SSN Acoustic Equipment	A	288,265	287,553	287,553	43,500	U
40	Undersea Warfare Support Equipment	A	7,163	13,653	13,653		U
	ASW Electronic Equipment						
41	Submarine Acoustic Warfare System	A	21,291	21,449	21,449		U
42	SSTD	A	6,893	12,867	12,867		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: 1810N Other 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	
Other Ship Support											
30	Nuclear Alterations	A									U
31	LCS Common Mission Modules Equipment										U
32	LCS MCM Mission Modules										U
33	LCS ASW Mission Modules										U
34	LCS SUW Mission Modules										U
35	LCS In-Service Modernization	A									U
Logistic Support											
36	LSD Midlife & Modernization										U
Total Ships Support Equipment				30,348							
Budget Activity 02: Communications & Electronics Equip											
Ship Sonars											
37	SPQ-9B Radar	A									U
38	AN/SQQ-89 Surf ASW Combat System	A									U
39	SSN Acoustic Equipment	A		43,500							U
40	Undersea Warfare Support Equipment	A									U
ASW Electronic Equipment											
41	Submarine Acoustic Warfare System	A									U
42	SSTD	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: 1810N Other 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
----	-----	-----	-----	-----	-----	-
	Other Ship Support					
30	Nuclear Alterations	A				U
31	LCS Common Mission Modules Equipment		34,666		34,666	U
32	LCS MCM Mission Modules		55,870		55,870	U
33	LCS ASW Mission Modules					U
34	LCS SUW Mission Modules		52,960		52,960	U
35	LCS In-Service Modernization	A	74,426		74,426	U
	Logistic Support					
36	LSD Midlife & Modernization		75,536		75,536	U
	Total Ships Support Equipment		2,742,241		2,742,241	
	Budget Activity 02: Communications & Electronics Equip					
	Ship Sonars					
37	SPQ-9B Radar	A	20,086		20,086	U
38	AN/SQQ-89 Surf ASW Combat System	A	102,222		102,222	U
39	SSN Acoustic Equipment	A	331,053		331,053	U
40	Undersea Warfare Support Equipment	A	13,653		13,653	U
	ASW Electronic Equipment					
41	Submarine Acoustic Warfare System	A	21,449		21,449	U
42	SSTD	A	12,867		12,867	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: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-
	Other Ship Support								
30	Nuclear Alterations	A							U
31	LCS Common Mission Modules Equipment			46,732			46,732		U
32	LCS MCM Mission Modules			124,147			124,147		U
33	LCS ASW Mission Modules			57,294			57,294		U
34	LCS SUW Mission Modules			26,006			26,006		U
35	LCS In-Service Modernization	A		70,526			70,526		U
	Logistic Support								
36	LSD Midlife & Modernization			4,784			4,784		U
				-----		-----	-----		
	Total Ships Support Equipment			3,180,536		28,260	3,208,796		
	Budget Activity 02: Communications & Electronics Equip								

	Ship Sonars								
37	SPQ-9B Radar	A		20,309			20,309		U
38	AN/SQQ-89 Surf ASW Combat System	A		115,459			115,459		U
39	SSN Acoustic Equipment	A		318,189			318,189		U
40	Undersea Warfare Support Equipment	A		10,134			10,134		U
	ASW Electronic Equipment								
41	Submarine Acoustic Warfare System	A		23,815			23,815		U
42	SSTD	A		11,277			11,277		U

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

Appropriation: 1810N Other 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
----	-----	-----	-----	-----	-----	-----	-
43	Fixed Surveillance System	A	145,701	300,102	300,102		U
44	SURTASS	A	43,743	30,180	30,180		U
	Electronic Warfare Equipment						
45	AN/SLQ-32	A	244,001	240,433	240,433		U
	Reconnaissance Equipment						
46	Shipboard IW Exploit	A	169,021	187,007	187,007		U
47	Automated Identification System (AIS)		764	510	510		U
	Other Ship Electronic Equipment						
48	Cooperative Engagement Capability	B	17,965	23,892	23,892		U
49	Naval Tactical Command Support System (NTCSS)	A	12,336	10,741	10,741		U
50	ATDLS	A	24,395	38,016	38,016		U
51	Navy Command and Control System (NCCS)		4,556	4,512	4,512		U
52	Minesweeping System Replacement	A	26,764	31,531	31,531		U
53	Shallow Water MCM	B	8,875	8,796	8,796		U
54	Navstar GPS Receivers (SPACE)	A	7,102	15,923	15,923		U
55	American Forces Radio and TV Service	A	4,577	2,730	2,730		U
56	Strategic Platform Support Equip	A	8,972	6,889	6,889		U
	Aviation Electronic Equipment						
57	Ashore ATC Equipment	A	68,392	71,882	71,882		U

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Total Obligational Authority
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Appropriation: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
43	Fixed Surveillance System	A									U
44	SURTASS	A									U
	Electronic Warfare Equipment										
45	AN/SLQ-32	A									U
	Reconnaissance Equipment										
46	Shipboard IW Exploit	A									U
47	Automated Identification System (AIS)										U
	Other Ship Electronic Equipment										
48	Cooperative Engagement Capability	B									U
49	Naval Tactical Command Support System (NTCSS)	A									U
50	ATDLS	A									U
51	Navy Command and Control System (NCCS)										U
52	Minesweeping System Replacement	A									U
53	Shallow Water MCM	B									U
54	Navstar GPS Receivers (SPACE)	A									U
55	American Forces Radio and TV Service	A									U
56	Strategic Platform Support Equip	A									U
	Aviation Electronic Equipment										
57	Ashore ATC Equipment	A									U

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

Appropriation: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-
43	Fixed Surveillance System	A		300,102			300,102		U
44	SURTASS	A		30,180			30,180		U
	Electronic Warfare Equipment								
45	AN/SLQ-32	A		240,433			240,433		U
	Reconnaissance Equipment								
46	Shipboard IW Exploit	A		187,007			187,007		U
47	Automated Identification System (AIS)			510			510		U
	Other Ship Electronic Equipment								
48	Cooperative Engagement Capability	B		23,892			23,892		U
49	Naval Tactical Command Support System (NTCSS)	A		10,741			10,741		U
50	ATDLS	A		38,016			38,016		U
51	Navy Command and Control System (NCCS)			4,512			4,512		U
52	Minesweeping System Replacement	A		31,531			31,531		U
53	Shallow Water MCM	B		8,796			8,796		U
54	Navstar GPS Receivers (SPACE)	A		15,923			15,923		U
55	American Forces Radio and TV Service	A		2,730			2,730		U
56	Strategic Platform Support Equip	A		6,889			6,889		U
	Aviation Electronic Equipment								
57	Ashore ATC Equipment	A		71,882			71,882		U

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Appropriation: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-
43	Fixed Surveillance System	A		237,780		56,950		294,730	U
44	SURTASS	A		57,872				57,872	U
	Electronic Warfare Equipment								
45	AN/SLQ-32	A		420,344				420,344	U
	Reconnaissance Equipment								
46	Shipboard IW Exploit	A		220,883				220,883	U
47	Automated Identification System (AIS)			4,028				4,028	U
	Other Ship Electronic Equipment								
48	Cooperative Engagement Capability	B		44,173				44,173	U
49	Naval Tactical Command Support System (NTCSS)	A		10,991				10,991	U
50	ATDLS	A		34,526				34,526	U
51	Navy Command and Control System (NCCS)			3,769				3,769	U
52	Minesweeping System Replacement	A		35,709				35,709	U
53	Shallow Water MCM	B		8,616				8,616	U
54	Navstar GPS Receivers (SPACE)	A		10,703				10,703	U
55	American Forces Radio and TV Service	A		2,626				2,626	U
56	Strategic Platform Support Equip	A		9,467				9,467	U
	Aviation Electronic Equipment								
57	Ashore ATC Equipment	A		70,849				70,849	U

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Appropriation: 1810N Other 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
----	-----	-----	-----	-----	-----	-----	-
58	Afloat ATC Equipment	A	29,411	44,611	44,611		U
59	ID Systems	A	22,177	21,239	21,239		U
60	Joint Precision Approach And Landing System (						U
61	Naval Mission Planning Systems	A	13,910	11,976	11,976	2,550	U
	Other Shore Electronic Equipment						
62	Tactical/Mobile C4I Systems	A	23,908	32,425	32,425	7,900	U
63	DCGS-N	A	23,610	13,790	13,790	6,392	U
64	CANES		207,730	322,754	322,754		U
65	RADIAC	A	8,092	10,718	10,718		U
66	CANES-Intell		35,313	48,028	48,028		U
67	GPETE	A	6,428	6,861	6,861		U
68	MASF			8,081	8,081		U
69	Integ Combat System Test Facility	A	8,376	5,019	5,019		U
70	EMI Control Instrumentation	A	3,971	4,188	4,188		U
71	Items Less Than \$5 Million	A	47,664	105,292	105,292		U
	Shipboard Communications						
72	Shipboard Tactical Communications	A	9,671	23,695	23,695		U
73	Ship Communications Automation	A	109,191	103,990	103,990		U
74	Communications Items Under \$5M	A	10,077	18,577	18,577		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
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58	Afloat ATC Equipment	A									U
59	ID Systems	A									U
60	Joint Precision Approach And Landing System (										U
61	Naval Mission Planning Systems	A		2,550							U
	Other Shore Electronic Equipment										
62	Tactical/Mobile C4I Systems	A		7,900							U
63	DCGS-N	A		6,392							U
64	CANES										U
65	RADIAC	A									U
66	CANES-Intell										U
67	GPETE	A									U
68	MASF										U
69	Integ Combat System Test Facility	A									U
70	EMI Control Instrumentation	A									U
71	Items Less Than \$5 Million	A									U
	Shipboard Communications										
72	Shipboard Tactical Communications	A									U
73	Ship Communications Automation	A									U
74	Communications Items Under \$5M	A									U

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Appropriation: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-
58	Afloat ATC Equipment	A		44,611			44,611		U
59	ID Systems	A		21,239			21,239		U
60	Joint Precision Approach And Landing System (								U
61	Naval Mission Planning Systems	A		14,526			14,526		U
	Other Shore Electronic Equipment								
62	Tactical/Mobile C4I Systems	A		40,325			40,325		U
63	DCGS-N	A		20,182			20,182		U
64	CANES			322,754			322,754		U
65	RADIAC	A		10,718			10,718		U
66	CANES-Intell			48,028			48,028		U
67	GPETE	A		6,861			6,861		U
68	MASF			8,081			8,081		U
69	Integ Combat System Test Facility	A		5,019			5,019		U
70	EMI Control Instrumentation	A		4,188			4,188		U
71	Items Less Than \$5 Million	A		105,292			105,292		U
	Shipboard Communications								
72	Shipboard Tactical Communications	A		23,695			23,695		U
73	Ship Communications Automation	A		103,990			103,990		U
74	Communications Items Under \$5M	A		18,577			18,577		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
----	-----	-----	-----	----	-----	----	-----	----	-
58	Afloat ATC Equipment	A		47,890			47,890		U
59	ID Systems	A		26,163			26,163		U
60	Joint Precision Approach And Landing System (			38,094			38,094		U
61	Naval Mission Planning Systems	A		11,966			11,966		U
	Other Shore Electronic Equipment								
62	Tactical/Mobile C4I Systems	A		42,010			42,010		U
63	DCGS-N	A		12,896			12,896		U
64	CANES			423,027			423,027		U
65	RADIAC	A		8,175			8,175		U
66	CANES-Intell			54,465			54,465		U
67	GPETE	A		5,985			5,985		U
68	MASF			5,413			5,413		U
69	Integ Combat System Test Facility	A		6,251			6,251		U
70	EMI Control Instrumentation	A		4,183			4,183		U
71	Items Less Than \$5 Million	A		148,350			148,350		U
	Shipboard Communications								
72	Shipboard Tactical Communications	A		45,450			45,450		U
73	Ship Communications Automation	A		105,087			105,087		U
74	Communications Items Under \$5M	A		41,123			41,123		U

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Appropriation: 1810N Other 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
----	-----	-----	-----	-----	-----	-----	-
	Submarine Communications						
75	Submarine Broadcast Support	A	31,068	29,669	29,669		U
76	Submarine Communication Equipment	A	62,305	86,204	86,204		U
	Satellite Communications						
77	Satellite Communications Systems	A	14,414	14,654	14,654		U
78	Navy Multiband Terminal (NMT)		33,992	69,764	69,764		U
	Shore Communications						
79	Joint Communications Support Element (JCSE)	A	4,156	4,256	4,256		U
	Cryptographic Equipment						
80	Info Systems Security Program (ISSP)	A	92,454	89,663	89,663		U
81	MIO Intel Exploitation Team	A	920	961	961		U
	Cryptologic Equipment						
82	Cryptologic Communications Equip	A	23,698	11,287	11,287	2,280	U
	Other Electronic Support						
83	DON UAS 1***	A	2,517				U
84	DON UAS 2***	A	4,927				U
85	DON ACTS***	A	1,545				U
86	Coast Guard Equipment	A	32,291	36,584	36,584		U

***Funding in this line item was transferred during the year of execution from the Spectrum Relocation Fund (SRF) in support of the Advanced Wireless Services 3 (AWS-3) auction and is associated with the reallocation or sharing of the 1755-1780 MHz and 1695-1710 MHz bands. The SRF is administered by the Office of Management and Budget (OMB), which approves SRF transfers to federal agencies on an annual basis in consultation with the National Telecommunications and Information Administration (NTIA).

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Submarine Communications											
75	Submarine Broadcast Support	A			15,000				15,000		U
76	Submarine Communication Equipment	A									U
Satellite Communications											
77	Satellite Communications Systems	A									U
78	Navy Multiband Terminal (NMT)										U
Shore Communications											
79	Joint Communications Support Element (JCSE)	A									U
Cryptographic Equipment											
80	Info Systems Security Program (ISSP)	A									U
81	MIO Intel Exploitation Team	A									U
Cryptologic Equipment											
82	Cryptologic Communications Equip	A		5,380							U
Other Electronic Support											
83	DON UAS 1***	A									U
84	DON UAS 2***	A									U
85	DON ACTS***	A									U
86	Coast Guard Equipment	A									U

***Funding in this line item was transferred during the year of execution from the Spectrum Relocation Fund (SRF) in support of the Advanced Wireless Services 3 (AWS-3) auction and is associated with the reallocation or sharing of the 1755-1780 MHz and 1695-1710 MHz bands. The SRF is administered by the Office of Management and Budget (OMB), which approves SRF transfers to federal agencies on an annual basis in consultation with the National Telecommunications and Information Administration (NTIA).

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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
----	-----	-----	-----	-----	-----	-
Submarine Communications						
75	Submarine Broadcast Support	A	44,669		44,669	U
76	Submarine Communication Equipment	A	86,204		86,204	U
Satellite Communications						
77	Satellite Communications Systems	A	14,654		14,654	U
78	Navy Multiband Terminal (NMT)		69,764		69,764	U
Shore Communications						
79	Joint Communications Support Element (JCSE)	A	4,256		4,256	U
Cryptographic Equipment						
80	Info Systems Security Program (ISSP)	A	89,663		89,663	U
81	MIO Intel Exploitation Team	A	961		961	U
Cryptologic Equipment						
82	Cryptologic Communications Equip	A	16,667		16,667	U
Other Electronic Support						
83	DON UAS 1***	A				U
84	DON UAS 2***	A				U
85	DON ACTS***	A				U
86	Coast Guard Equipment	A	36,584		36,584	U

***Funding in this line item was transferred during the year of execution from the Spectrum Relocation Fund (SRF) in support of the Advanced Wireless Services 3 (AWS-3) auction and is associated with the reallocation or sharing of the 1755-1780 MHz and 1695-1710 MHz bands. The SRF is administered by the Office of Management and Budget (OMB), which approves SRF transfers to federal agencies on an annual basis in consultation with the National Telecommunications and Information Administration (NTIA).

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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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	Submarine Communications								
75	Submarine Broadcast Support	A		30,897			30,897		U
76	Submarine Communication Equipment	A		78,580			78,580		U
	Satellite Communications								
77	Satellite Communications Systems	A		41,205	3,200		44,405		U
78	Navy Multiband Terminal (NMT)			113,885			113,885		U
	Shore Communications								
79	Joint Communications Support Element (JCSE)	A		4,292			4,292		U
	Cryptographic Equipment								
80	Info Systems Security Program (ISSP)	A		153,526			153,526		U
81	MIO Intel Exploitation Team	A		951			951		U
	Cryptologic Equipment								
82	Cryptologic Communications Equip	A		14,209	2,000		16,209		U
	Other Electronic Support								
83	DON UAS 1***	A							U
84	DON UAS 2***	A							U
85	DON ACTS***	A							U
86	Coast Guard Equipment	A		40,713			40,713		U

***Funding in this line item was transferred during the year of execution from the Spectrum Relocation Fund (SRF) in support of the Advanced Wireless Services 3 (AWS-3) auction and is associated with the reallocation or sharing of the 1755-1780 MHz and 1695-1710 MHz bands. The SRF is administered by the Office of Management and Budget (OMB), which approves SRF transfers to federal agencies on an annual basis in consultation with the National Telecommunications and Information Administration (NTIA).

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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
	Drug Interdiction Support						
87	Other Drug Interdiction Support	A	16,000				U
	Total Communications & Electronics Equip		2,088,792	2,565,260	2,555,260	62,622	
	Budget Activity 03: Aviation Support Equipment						
	Sonobuoys						
88	Sonobuoys - All Types	A	158,588	173,616	173,616		U
	Aircraft Support Equipment						
89	Weapons Range Support Equipment	A	58,116	72,110	72,110		U
90	Aircraft Support Equipment	A	115,551	108,482	108,482		U
91	Advanced Arresting Gear (AAG)	A		10,900	10,900		U
92	Meteorological Equipment	A	29,015	21,137	21,137		U
93	DCRS/DPL	A	632	660	660		U
94	Airborne Mine Countermeasures	A	27,542	20,605	20,605		U
95	Lamps Equipment						U
96	Aviation Support Equipment	A	29,528	34,032	34,032	29,245	U
97	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	A					U
	Total Aviation Support Equipment		418,972	441,542	441,542	29,245	

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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
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
	Drug Interdiction Support										
87	Other Drug Interdiction Support	A									U
	Total Communications & Electronics Equip			65,722		15,000				15,000	
	Budget Activity 03: Aviation Support Equipment										
	Sonobuoys										
88	Sonobuoys - All Types	A									U
	Aircraft Support Equipment										
89	Weapons Range Support Equipment	A									U
90	Aircraft Support Equipment	A									U
91	Advanced Arresting Gear (AAG)	A									U
92	Meteorological Equipment	A									U
93	DCRS/DPL	A									U
94	Airborne Mine Countermeasures	A									U
95	Lamps Equipment										U
96	Aviation Support Equipment	A		29,245							U
97	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	A									U
	Total Aviation Support Equipment			29,245							

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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
----	-----	-----	-----	-----	-----	-
	Drug Interdiction Support					
87	Other Drug Interdiction Support	A				U
	Total Communications & Electronics Equip		2,635,982		2,635,982	
	Budget Activity 03: Aviation Support Equipment					
	Sonobuoys					
88	Sonobuoys - All Types	A	173,616		173,616	U
	Aircraft Support Equipment					
89	Weapons Range Support Equipment	A	72,110		72,110	U
90	Aircraft Support Equipment	A	108,482		108,482	U
91	Advanced Arresting Gear (AAG)	A	10,900		10,900	U
92	Meteorological Equipment	A	21,137		21,137	U
93	DCRS/DPL	A	660		660	U
94	Airborne Mine Countermeasures	A	20,605		20,605	U
95	Lamps Equipment					U
96	Aviation Support Equipment	A	63,277		63,277	U
97	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	A				U
	Total Aviation Support Equipment		470,787		470,787	

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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: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-
	Drug Interdiction Support								
87	Other Drug Interdiction Support	A							U
	Total Communications & Electronics Equip		3,176,305		62,150		3,238,455		
	Budget Activity 03: Aviation Support Equipment								

	Sonobuoys								
88	Sonobuoys - All Types	A	177,891		21,156		199,047		U
	Aircraft Support Equipment								
89	Weapons Range Support Equipment	A	93,864				93,864		U
90	Aircraft Support Equipment	A	111,724				111,724		U
91	Advanced Arresting Gear (AAG)	A	11,054				11,054		U
92	Meteorological Equipment	A	21,072				21,072		U
93	DCRS/DPL	A	656				656		U
94	Airborne Mine Countermeasures	A	11,299				11,299		U
95	Lamps Equipment		594				594		U
96	Aviation Support Equipment	A	39,374				39,374		U
97	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	A	35,405				35,405		U
	Total Aviation Support Equipment		502,933		21,156		524,089		

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

Appropriation: 1810N Other 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 04: Ordnance Support Equipment							

Ship Gun System Equipment							
98	Ship Gun Systems Equipment	A	6,191	5,277	5,277		U
Ship Missile Systems Equipment							
99	Ship Missile Support Equipment	A	307,447	272,359	272,359	2,436	U
100	Tomahawk Support Equipment	A	67,062	73,184	73,184		U
FBM Support Equipment							
101	Strategic Missile Systems Equip	A	215,138	246,221	246,221		U
ASW Support Equipment							
102	SSN Combat Control Systems	A	144,715	129,972	129,972		U
103	ASW Support Equipment	A	36,431	23,209	23,209		U
Other Ordnance Support Equipment							
104	Explosive Ordnance Disposal Equip	B	92,655	15,596	15,596	31,970	U
105	Items Less Than \$5 Million	A	6,243	5,981	5,981		U
Other Expendable Ordnance							
106	Submarine Training Device Mods	A	46,746	74,550	74,550		U
107	Surface Training Equipment	A	87,714	83,022	83,022		U
Total Ordnance Support Equipment			1,010,342	929,371	929,371	34,406	

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

Appropriation: 1810N Other 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
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
Budget Activity 04: Ordnance Support Equipment											

	Ship Gun System Equipment										
98	Ship Gun Systems Equipment	A									U
	Ship Missile Systems Equipment										
99	Ship Missile Support Equipment	A		2,436							U
100	Tomahawk Support Equipment	A									U
	FBM Support Equipment										
101	Strategic Missile Systems Equip	A									U
	ASW Support Equipment										
102	SSN Combat Control Systems	A									U
103	ASW Support Equipment	A									U
	Other Ordnance Support Equipment										
104	Explosive Ordnance Disposal Equip	B		60,370							U
105	Items Less Than \$5 Million	A									U
	Other Expendable Ordnance										
106	Submarine Training Device Mods	A									U
107	Surface Training Equipment	A									U
				-----		-----		-----		-----	
	Total Ordnance Support Equipment			62,806							

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

Appropriation: 1810N Other 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 -
Budget Activity 04: Ordnance Support Equipment						
Ship Gun System Equipment						
98	Ship Gun Systems Equipment	A	5,277		5,277	U
Ship Missile Systems Equipment						
99	Ship Missile Support Equipment	A	274,795		274,795	U
100	Tomahawk Support Equipment	A	73,184		73,184	U
FBM Support Equipment						
101	Strategic Missile Systems Equip	A	246,221		246,221	U
ASW Support Equipment						
102	SSN Combat Control Systems	A	129,972		129,972	U
103	ASW Support Equipment	A	23,209		23,209	U
Other Ordnance Support Equipment						
104	Explosive Ordnance Disposal Equip	B	75,966		75,966	U
105	Items Less Than \$5 Million	A	5,981		5,981	U
Other Expendable Ordnance						
106	Submarine Training Device Mods	A	74,550		74,550	U
107	Surface Training Equipment	A	83,022		83,022	U
Total Ordnance Support Equipment			992,177		992,177	

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1810N Other 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 04: Ordnance Support Equipment -----									
Ship Gun System Equipment									
98	Ship Gun Systems Equipment	A		5,337			5,337		U
Ship Missile Systems Equipment									
99	Ship Missile Support Equipment	A		213,090			213,090		U
100	Tomahawk Support Equipment	A		92,890			92,890		U
FBM Support Equipment									
101	Strategic Missile Systems Equip	A		271,817			271,817		U
ASW Support Equipment									
102	SSN Combat Control Systems	A		129,501			129,501		U
103	ASW Support Equipment	A		19,436			19,436		U
Other Ordnance Support Equipment									
104	Explosive Ordnance Disposal Equip	B		14,258	33,580		47,838		U
105	Items Less Than \$5 Million	A		5,378			5,378		U
Other Expendable Ordnance									
106	Submarine Training Device Mods	A		65,543			65,543		U
107	Surface Training Equipment	A		230,425			230,425		U
Total Ordnance Support Equipment				1,047,675	33,580		1,081,255		

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

Appropriation: 1810N Other 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 05: Civil Engineering Support Equip -----							
Civil Engineering Support Equipment							
108	Passenger Carrying Vehicles	A	9,078	5,299	5,299		U
109	General Purpose Trucks	A	4,794	2,946	2,946	496	U
110	Construction & Maintenance Equip	A	18,553	34,970	34,970		U
111	Fire Fighting Equipment	A	14,199	2,541	2,541	2,304	U
112	Tactical Vehicles	B	13,824	19,699	19,699	2,336	U
113	Amphibious Equipment	A	7,676	12,162	12,162		U
114	Pollution Control Equipment	A	2,321	2,748	2,748		U
115	Items Under \$5 Million	A	8,501	18,084	18,084		U
116	Physical Security Vehicles	A	1,095	1,170	1,170		U
Total Civil Engineering Support Equip			80,041	99,619	99,619	5,136	
Budget Activity 06: Supply Support Equipment -----							
Supply Support Equipment							
117	Supply Equipment	A	16,978	21,797	21,797	164	U
118	First Destination Transportation	A	5,115	5,572	5,572	420	U
119	Special Purpose Supply Systems	A	295,471	482,916	482,916		U
Total Supply Support Equipment			317,564	510,285	510,285	584	

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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: 1810N Other 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
Budget Activity 05: Civil Engineering Support Equip											
Civil Engineering Support Equipment											
108	Passenger Carrying Vehicles	A									U
109	General Purpose Trucks	A		496							U
110	Construction & Maintenance Equip	A									U
111	Fire Fighting Equipment	A		2,304							U
112	Tactical Vehicles	B		2,336							U
113	Amphibious Equipment	A									U
114	Pollution Control Equipment	A									U
115	Items Under \$5 Million	A									U
116	Physical Security Vehicles	A									U
Total Civil Engineering Support Equip				5,136							
Budget Activity 06: Supply Support Equipment											
Supply Support Equipment											
117	Supply Equipment	A		164							U
118	First Destination Transportation	A		420							U
119	Special Purpose Supply Systems	A									U
Total Supply Support Equipment				584							

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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: 1810N Other 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
-----	-----	-----	-----	-----	-----	-
Budget Activity 05: Civil Engineering Support Equip -----						
Civil Engineering Support Equipment						
108	Passenger Carrying Vehicles	A	5,299		5,299	U
109	General Purpose Trucks	A	3,442		3,442	U
110	Construction & Maintenance Equip	A	34,970		34,970	U
111	Fire Fighting Equipment	A	4,845		4,845	U
112	Tactical Vehicles	B	22,035		22,035	U
113	Amphibious Equipment	A	12,162		12,162	U
114	Pollution Control Equipment	A	2,748		2,748	U
115	Items Under \$5 Million	A	18,084		18,084	U
116	Physical Security Vehicles	A	1,170		1,170	U
	Total Civil Engineering Support Equip		104,755	-----	104,755	
Budget Activity 06: Supply Support Equipment -----						
Supply Support Equipment						
117	Supply Equipment	A	21,961		21,961	U
118	First Destination Transportation	A	5,992		5,992	U
119	Special Purpose Supply Systems	A	482,916		482,916	U
	Total Supply Support Equipment		510,869	-----	510,869	

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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: 1810N Other 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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Budget Activity 05: Civil Engineering Support Equip -----									
Civil Engineering Support Equipment									
108	Passenger Carrying Vehicles	A	4,867		170		5,037		U
109	General Purpose Trucks	A	2,674		400		3,074		U
110	Construction & Maintenance Equip	A	20,994				20,994		U
111	Fire Fighting Equipment	A	17,189		770		17,959		U
112	Tactical Vehicles	B	19,916		7,298		27,214		U
113	Amphibious Equipment	A	7,400				7,400		U
114	Pollution Control Equipment	A	2,713				2,713		U
115	Items Under \$5 Million	A	35,540				35,540		U
116	Physical Security Vehicles	A	1,155				1,155		U
	Total Civil Engineering Support Equip		112,448		8,638		121,086		
Budget Activity 06: Supply Support Equipment -----									
Supply Support Equipment									
117	Supply Equipment	A	18,786				18,786		U
118	First Destination Transportation	A	5,375		500		5,875		U
119	Special Purpose Supply Systems	A	580,371				580,371		U
	Total Supply Support Equipment		604,532		500		605,032		

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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: 1810N Other 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 07: Personnel & Command Support Equip -----							
Training Devices							
120	Training Support Equipment	A					U
121	Training and Education Equipment	A	6,347	25,624	25,624		U
Command Support Equipment							
122	Command Support Equipment	A	44,666	59,076	59,076	21,650	U
123	Medical Support Equipment	A	11,959	4,383	4,383		U
125	Naval MIP Support Equipment	A	1,925	2,030	2,030		U
126	Operating Forces Support Equipment	A	3,822	7,500	7,500	15,800	U
127	C4ISR Equipment	A	9,073	4,010	4,010		U
128	Environmental Support Equipment	A	19,439	23,644	23,644	1,000	U
129	Physical Security Equipment	A	109,825	101,982	101,982	15,890	U
130	Enterprise Information Technology	A	88,799	19,789	19,789		U
Other							
133	Next Generation Enterprise Service	A	84,176	104,584	104,584		U
999	Classified Programs		11,575	23,707	23,707	2,200	U
Total Personnel & Command Support Equip			391,606	376,329	376,329	56,540	

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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: 1810N Other 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
Budget Activity 07: Personnel & Command Support Equip											
Training Devices											
120	Training Support Equipment	A									U
121	Training and Education Equipment	A									U
Command Support Equipment											
122	Command Support Equipment	A	21,650		7,650				7,650		U
123	Medical Support Equipment	A									U
125	Naval MIP Support Equipment	A									U
126	Operating Forces Support Equipment	A	15,800								U
127	C4ISR Equipment	A									U
128	Environmental Support Equipment	A	1,000								U
129	Physical Security Equipment	A	15,890		3,100				3,100		U
130	Enterprise Information Technology	A									U
Other											
133	Next Generation Enterprise Service	A									U
999	Classified Programs		2,200								U
Total Personnel & Command Support Equip			56,540		10,750				10,750		

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

Appropriation: 1810N Other 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
-----	-----	-----	-----	-----	-----	-
Budget Activity 07: Personnel & Command Support Equip -----						
Training Devices						
120	Training Support Equipment	A				U
121	Training and Education Equipment	A	25,624		25,624	U
Command Support Equipment						
122	Command Support Equipment	A	88,376		88,376	U
123	Medical Support Equipment	A	4,383		4,383	U
125	Naval MIP Support Equipment	A	2,030		2,030	U
126	Operating Forces Support Equipment	A	23,300		23,300	U
127	C4ISR Equipment	A	4,010		4,010	U
128	Environmental Support Equipment	A	24,644		24,644	U
129	Physical Security Equipment	A	120,972		120,972	U
130	Enterprise Information Technology	A	19,789		19,789	U
Other						
133	Next Generation Enterprise Service	A	104,584		104,584	U
999	Classified Programs		25,907		25,907	U
			-----	-----	-----	
Total Personnel & Command Support Equip			443,619		443,619	

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

Appropriation: 1810N Other 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 07: Personnel & Command Support Equip -----									
Training Devices									
120	Training Support Equipment	A		3,400			3,400		U
121	Training and Education Equipment	A		24,283			24,283		U
Command Support Equipment									
122	Command Support Equipment	A		66,681			66,681		U
123	Medical Support Equipment	A		3,352		6,500	9,852		U
125	Naval MIP Support Equipment	A		1,984			1,984		U
126	Operating Forces Support Equipment	A		15,131			15,131		U
127	C4ISR Equipment	A		3,576			3,576		U
128	Environmental Support Equipment	A		31,902		2,200	34,102		U
129	Physical Security Equipment	A		175,436		19,389	194,825		U
130	Enterprise Information Technology	A		25,393			25,393		U
Other									
133	Next Generation Enterprise Service	A		96,269			96,269		U
999	Classified Programs			15,681		4,800	20,481		U
			-----		-----		-----		
Total Personnel & Command Support Equip				463,088		32,889	495,977		

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

Appropriation: 1810N Other 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 08: Spares and Repair Parts							

Spares and Repair Parts							
134	Spares and Repair Parts	A	199,627	278,565	278,565	1,178	U
			-----	-----	-----	-----	
	Total Spares and Repair Parts		199,627	278,565	278,565	1,178	
Budget Activity 20: Undistributed							

Undistributed							
135	Adj to Match Continuing Resolution	A		-1,692,780	-1,692,780	31,024	U
			-----	-----	-----	-----	
	Total Undistributed			-1,692,780	-1,692,780	31,024	
			-----	-----	-----	-----	
	Total Other Procurement, Navy		6,651,966	6,585,009	6,210,084	251,083	

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(Dollars in Thousands)

Appropriation: 1810N Other 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
Budget Activity 08: Spares and Repair Parts											

Spares and Repair Parts											
134	Spares and Repair Parts	A	1,178								U
			-----		-----		-----		-----		
Total Spares and Repair Parts			1,178								
Budget Activity 20: Undistributed											

Undistributed											
135	Adj to Match Continuing Resolution	A	-476								U
			-----		-----		-----		-----		
Total Undistributed			-476								
			-----		-----		-----		-----		
Total Other Procurement, Navy			251,083		25,750				25,750		

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Appropriation: 1810N Other 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 -
Budget Activity 08: Spares and Repair Parts						

Spares and Repair Parts						
134	Spares and Repair Parts	A	279,743		279,743	U
			-----	-----	-----	
	Total Spares and Repair Parts		279,743		279,743	
Budget Activity 20: Undistributed						

Undistributed						
135	Adj to Match Continuing Resolution	A	-1,719,006		-1,719,006	U
			-----	-----	-----	
	Total Undistributed		-1,719,006		-1,719,006	
			-----	-----	-----	
	Total Other Procurement, Navy		6,461,167		6,461,167	

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(Dollars in Thousands)

Appropriation: 1810N Other 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 08: Spares and Repair Parts									

Spares and Repair Parts									
134	Spares and Repair Parts	A	326,838				326,838		U
			-----		-----		-----		
	Total Spares and Repair Parts		326,838				326,838		
Budget Activity 20: Undistributed									

Undistributed									
135	Adj to Match Continuing Resolution	A							U
			-----		-----		-----		
	Total Undistributed								
			-----		-----		-----		
	Total Other Procurement, Navy		9,414,355		187,173		9,601,528		

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27	01	11	1130	Diving and Salvage Equipment.....	Volume 1 - 617
28	01	12	1210	Standard Boats.....	Volume 1 - 635
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44	02	03	2237	SURTASS.....	Volume 2 - 133
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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment	P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles

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>)	2.436	9.078	5.299	4.867	0.170	5.037	4.562	4.386	4.234	4.334	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2.436	9.078	5.299	4.867	0.170	5.037	4.562	4.386	4.234	4.334	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2.436	9.078	5.299	4.867	0.170	5.037	4.562	4.386	4.234	4.334	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 budget line item funds procurement of passenger-carrying vehicles consisting of buses, automobiles, ambulances, and various utility and carryall trucks up to 9200 lbs. Gross Vehicle Weight Rating (GVWR). These vehicles are utilized by Naval operating forces and shore activities for essential transportation of personnel in the execution of official Navy business. Funding in this line also supports the Joint POW/MIA Accounting Command (JPAC).

Buses procured are 20 to 60 passenger school buses, shuttle buses, intercity buses, and ambulance buses, which provide the most cost effective means to transport groups of people between various locations. Buses are used to transport sailors/airmen and reserve personnel for flight/ship logistic related assignments, mandatory military training and exercises, and for transportation of personnel between administrative areas, ships/airfields, and industrial areas on a daily basis (both scheduled and intermittent).

Automobiles are used to transport small groups of personnel, on and off base, for various work related activities. Law enforcement automobiles provide essential transportation services to insure optimum responsiveness in support of DOD intelligence and base security missions. They are used in Naval intelligence, investigative and surveillance operations, security patrols, and other law enforcement activities.

Ambulances are used by the Medical Corps at Navy hospitals, clinics, and by Naval Expeditionary Medical Command Units. Modular ambulances are used for emergency transport of personnel where emergency medical services are provided in route. Field ambulances provide the same emergency service, but are four-wheel drive to access remote sites in support of field units. Patient transport ambulances are used for transporting stabilized patients to specialized care/other medical facilities. Ambulance conversion buses are used to move mixed loads of ambulatory and/or stretcher-borne patients.

Maintenance/utility trucks are utilized to transport tools, supplies, materials, and equipment necessary for maintenance personnel performing facility maintenance at shore facilities. Carryalls are used for transporting sailors, flight crews, maintenance, and civilian personnel to work sites or for other mission related activities.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles				
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-40a	Passenger Carrying Vehicles	P-5a			- / 2.436	- / 9.078	- / 5.299	- / 4.867	- / 0.170	- / 5.037
P-40	Total Gross/Weapon System Cost				- / 2.436	- / 9.078	- / 5.299	- / 4.867	- / 0.170	- / 5.037
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The funds requested in FY 2019 will provide for recapitalization requirements to support fielding a fleet of equipment within useful life expectancy. OCO: Included in this request is FY 2019 Overseas Contingency Operations (OCO) funding for Operation Enduring Freedom - Horn of Africa (OEF-H) in the amount of \$0.170M for Camp Lemonnier, Djibouti. Funds for Isa Air Base will procure replacement vehicles (beyond serviceable life) for a core installation that provides key logistics services supporting ship and aircraft movements and command and control services for the warfighter in support of Overseas Contingency Operations. The OCO funds will be specifically applied to: SPORT UTILITY VEHICLE 4X4 RHD QTY=2, \$.070M 106, SPORT UTILITY VEHICLE 4X4 , QTY=2, \$0.100M										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles							Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Buses																				
1.1) 332A 44 PASSENGER CARRYING BUS ^(†)	A		-	-	-	-	-	-	119,107.00	4	0.476	121,489.00	3	0.364	-	-	-	121,489.00	3	0.364
1.4) BUS BOC 25 PASSENGER RHD ^(†)	A		-	-	-	-	-	-	62,000.00	1	0.062	63,240.00	1	0.063	-	-	-	63,240.00	1	0.063
1.5) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC ^(†)	A		126,000.00	1	0.126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC (AFV) ^(†)	A		115,500.00	2	0.231	116,886.00	9	1.052	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Buses			-	-	0.357	-	-	1.052	-	-	0.538	-	-	0.427	-	-	-	-	-	0.427
2) Automobiles																				
2.1) SEDAN AUTO ^(†)	A		-	-	-	-	-	-	37,240.00	11	0.410	37,866.00	11	0.417	-	-	-	37,866.00	11	0.417
2.2) SEDAN COMPACT 5 PASSENGER 4 DOOR (AFV) ^(†)	A		36,000.00	3	0.108	36,467.00	12	0.438	-	-	-	-	-	-	-	-	-	-	-	-
2.3) SEDAN COMPACT 5 PASSENGER 4 DOOR AC ^(†)	A		-	-	-	-	-	-	22,350.00	16	0.358	22,950.00	6	0.138	-	-	-	22,950.00	6	0.138
2.4) SEDAN COMPACT 5 PASSENGER 4 DOOR RHD ^(†)	A		-	-	-	-	-	-	32,000.00	4	0.128	32,640.00	2	0.065	-	-	-	32,640.00	2	0.065
2.5) SEDAN COMPACT FOREIGN ^(†)	A		27,333.33	3	0.082	28,033.00	10	0.280	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) Automobiles			-	-	0.190	-	-	0.718	-	-	0.896	-	-	0.620	-	-	-	-	-	0.620
3) Ambulances																				
3.1) AMBULANCE BUS CONV FC 8-12L R/LOAD NONSTANDARD RHD ^(†)	A		-	-	-	-	-	-	-	-	-	64,000.00	1	0.064	-	-	-	64,000.00	1	0.064
3.2) TRUCK AMB VAN CONV 4X2 2 LITTER RHD JAPAN ^(†)	A		-	-	-	-	-	-	70,000.00	9	0.630	71,400.00	2	0.143	-	-	-	71,400.00	2	0.143

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles								Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
3.3) TRUCK AMBULANCE FIELD COM 4 LITTER 4X4 RIGHT HAND DRIVE ^(†)	A		86,000.00	2	0.172	85,988.00	9	0.774	-	-	-	-	-	-	-	-	-	-	-	-	
3.4) TRUCK AMBULANCE FIELD COM 4X4 DED ^(†)	A		93,000.00	2	0.186	94,943.00	2	0.190	-	-	-	-	-	-	-	-	-	-	-	-	
3.5) TRUCK AMBULANCE MODULAR BODY 4X4 2 LITTER (AFV) ^(†)	A		114,500.00	2	0.229	114,840.00	8	0.919	-	-	-	-	-	-	-	-	-	-	-	-	
3.6) TRUCK AMBULANCE TYPE 1 CONV CAB-CHASSIS NARROW MODULAR BODY NONSTANDARD ^(†)	A		-	-	-	-	-	-	70,000.00	1	0.070	-	-	-	-	-	-	-	-	-	
3.7) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER (AFV) ^(†)	A		63,500.00	2	0.127	64,960.00	9	0.585	-	-	-	-	-	-	-	-	-	-	-	-	
3.8) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER RIGHT HAND DRIVE ^(†)	A		64,000.00	1	0.064	65,413.00	9	0.589	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) Ambulances			-	-	0.778	-	-	3.057	-	-	0.700	-	-	0.207	-	-	-	-	-	0.207	
4) Utility and Carryall Trucks																					
4.2) 105A, SPORT UTILITY VEHICLE 4X4 MIDSIZE ^(†)	A		-	-	-	-	-	-	28,210.00	7	0.197	-	-	-	-	-	-	-	-	-	
4.3) 105B, SPORT UTILITY VEHICLE 4X4 MIDSIZE ^(†)	A		-	-	-	-	-	-	34,040.00	5	0.170	34,721.00	10	0.347	-	-	-	34,721.00	10	0.347	
4.4) 106, SPORT UTILITY VEHICLE 4X4 ^(†)	A		-	-	-	-	-	-	35,218.00	8	0.282	35,922.00	3	0.108	35,922.00	2	0.072	35,922.00	5	0.180	
4.8) 24, TRUCK VAN 15 PASSENGER 4X2 ^(†)	A		-	-	-	-	-	-	25,457.00	18	0.458	26,119.00	8	0.209	-	-	-	26,119.00	8	0.209	
4.10) 24X, TRUCK VAN 15 PASSENGER AWD ^(†)	A		-	-	-	-	-	-	-	-	-	28,000.00	1	0.028	-	-	-	28,000.00	1	0.028	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles										Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
4.11) SPORT UTILITY VEHICLE 4X2 ^(†)	A		-	-	-	-	-	-	41,000.00	2	0.082	-	-	-	-	-	-	-	-	-	
4.12) SPORT UTILITY VEHICLE 4X2 COMPACT TO 5400 GVWR ^(†)	A		-	-	-	-	-	-	-	-	-	22,000.00	10	0.220	-	-	-	22,000.00	10	0.220	
4.13) SPORT UTILITY VEHICLE 4X2 LARGE 8501 GVWR AND UP (CLASS IV) ^(†)	A		-	-	-	-	-	-	-	-	-	30,500.00	10	0.305	-	-	-	30,500.00	10	0.305	
4.16) SPORT UTILITY VEHICLE 4X4 ^(†)	A		-	-	-	-	-	-	36,250.00	11	0.399	36,975.00	21	0.776	-	-	-	36,975.00	21	0.776	
4.17) SPORT UTILITY VEHICLE 4X4 LARGE 8501 GVWR AND UP (CLASS IV) ^(†)	A		-	-	-	30,733.00	1	0.031	-	-	-	32,000.00	10	0.320	-	-	-	32,000.00	10	0.320	
4.18) SPORT UTILITY VEHICLE 4X4 MIDSIZE 5401-6799 GVWR (CLASS III) ^(†)	A		-	-	-	-	-	-	28,000.00	6	0.168	28,560.00	3	0.086	-	-	-	28,560.00	3	0.086	
4.19) SPORT UTILITY VEHICLE 4X4 RHD ^(†)	A		-	-	-	-	-	-	48,000.00	4	0.192	48,960.00	3	0.147	48,960.00	2	0.098	48,960.00	5	0.245	
4.20) SPORT UTILITY VEHICLE 4X4 TO 8500 GVWR LAW ENFORCEMENT ^(†)	A		-	-	-	-	-	-	31,895.00	7	0.223	32,000.00	6	0.192	-	-	-	32,000.00	6	0.192	
4.21) TRUCK UTILITY COMM 4X4 4500 GVW (AFV) ^(†)	A		40,333.33	3	0.121	41,096.00	11	0.452	-	-	-	-	-	-	-	-	-	-	-	-	
4.22) TRUCK UTILITY COMM 4 DOOR 5 PASSENGER (AFV) ^(†)	A		47,666.67	3	0.143	48,698.00	16	0.779	-	-	-	-	-	-	-	-	-	-	-	-	
4.23) TRUCK UTILITY COMM 4500 GVW (AFV) ^(†)	A		31,000.00	1	0.031	31,322.00	10	0.313	-	-	-	-	-	-	-	-	-	-	-	-	
4.24) TRUCK UTILITY COMM 4X4 4500 GVW RHD JAPAN ^(†)	A		27,750.00	4	0.111	28,401.00	10	0.284	-	-	-	-	-	-	-	-	-	-	-	-	
4.25) TRUCK UTILITY COMMERCIAL 4X4 4 DOOR (AFV) ^(†)	A		62,250.00	4	0.249	63,511.00	11	0.699	-	-	-	-	-	-	-	-	-	-	-	-	
4.27) TRUCK VAN COMPACT F/C 7	A		24,250.00	4	0.097	24,853.00	14	0.348	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles									Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
PASSENGER 4200 GVW (AFV) ^(†)																				
4.28) TRUCK VAN COMPACT FORWARD CONTROL 7 PASSENGER 4X2 6000 GVWR ^(†)	A		-	-	-	-	-	-	26,000.00	5	0.130	-	-	-	-	-	-	-	-	-
4.29) TRUCK VAN F/ C 12 PASSENGER 8500 GVW (AFV) ^(†)	A		19,500.00	4	0.078	19,993.00	15	0.300	-	-	-	-	-	-	-	-	-	-	-	
4.30) TRUCK VAN F/ C 12 PASSENGER 8600 GVW AC ^(†)	A		-	-	-	-	-	-	30,000.00	5	0.150	-	-	-	-	-	-	-	-	
4.32) TRUCK VAN F/ C 15 PASSENGER 8500 GVW (AFV) ^(†)	A		26,000.00	4	0.104	27,434.00	15	0.412	-	-	-	28,854.00	23	0.664	-	-	-	28,854.00	23	0.664
4.33) TRUCK VAN F/C 8 PASSENGER 6000 GVW (AFV) ^(†)	A		21,000.00	4	0.084	21,567.00	14	0.302	-	-	-	-	-	-	-	-	-	-	-	
4.34) TRUCK VAN F/C 8 PASSENGER RIGHT HAND DRIVE ^(†)	A		28,666.67	3	0.086	29,112.00	11	0.320	-	-	-	-	-	-	-	-	-	-	-	
4.35) TRUCK VAN FORWARD CONTROL 12 PASSENGER 4X2 8501 AND UP GVWR ^(†)	A		-	-	-	-	-	-	24,000.00	4	0.096	-	-	-	-	-	-	-	-	
4.37) TRUCK VAN FORWARD CONTROL 4X2 NONSTANDARD ^(†)	A		-	-	-	-	-	-	40,402.00	2	0.081	-	-	-	-	-	-	-	-	
4.38) TRUCK VAN FORWARD CONTROL 8 PASSENGER 4X2 TO 8500 GVWR ^(†)	A		-	-	-	-	-	-	21,500.00	6	0.129	21,930.00	2	0.044	-	-	-	21,930.00	2	0.044
4.40) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER 4X2 ^(†)	A		-	-	-	-	-	-	-	-	-	50,000.00	3	0.150	-	-	-	50,000.00	3	0.150
4.41) TRUCK VAN FORWARD	A		-	-	-	-	-	-	28,000.00	14	0.392	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles								Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
CONTROL 8-12 PASSENGER RHD ^(†)																				
Subtotal: 4) Utility and Carryall Trucks			-	-	1.104	-	-	4.240	-	-	3.149	-	-	3.596	-	-	0.170	-	-	3.766
5) Support Costs																				
5.1) ILS Support Cost			A		-	-	0.007	-	-	0.011	-	-	0.016	-	-	0.017	-	-	-	0.017
Subtotal: 5) Support Costs					-	-	0.007	-	-	0.011	-	-	0.016	-	-	0.017	-	-	-	0.017
Total					-	-	2.436	-	-	9.078	-	-	5.299	-	-	4.867	-	-	0.170	5.037

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

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles					Aggregated Items: Passenger Carrying Vehicles			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Buses												
1.1) 332A 44 PASSENGER CARRYING BUS		2018	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Sep 2018	4	119,107.00	Y		
1.4) BUS BOC 25 PASSENGER RHD		2018	UNKNOWN / UNKNOWN	C / FP	FEAD Yokosuka	Mar 2018	Sep 2018	1	62,000.00	Y		
1.5) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC		2016	BLUE BIRD / FORT VALLEY, GA	MIPR	GSA	Aug 2016	Oct 2016	1	126,000.00	Y		
1.6) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC (AFV)		2016	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	2	115,688.00	Y		
1.6) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC (AFV)		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	9	116,886.00	Y		
2) Automobiles												
2.1) SEDAN AUTO		2018	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Sep 2018	11	37,240.00	Y		
2.2) SEDAN COMPACT 5 PASSENGER 4 DOOR (AFV)		2016	RP AUTOMOTIVE/WEST COVINA, CA / Unknown	MIPR	GSA	Aug 2016	Feb 2017	3	35,873.00	Y		
2.2) SEDAN COMPACT 5 PASSENGER 4 DOOR (AFV)		2017	RP AUTOMOTIVE/WEST COVINA, CA / Unknown	MIPR	GSA	Mar 2017	Sep 2017	12	36,467.00	Y		
2.3) SEDAN COMPACT 5 PASSENGER 4 DOOR AC		2018	Unknown / Unknown	MIPR	Various	Mar 2018	Sep 2018	16	22,350.00	Y		
2.4) SEDAN COMPACT 5 PASSENGER 4 DOOR RHD		2018	Unknown / Unknown	C / FP	Various	Mar 2018	Sep 2018	4	32,000.00	Y		
2.5) SEDAN COMPACT FOREIGN		2016	Okinawa Mazda / Unknown	C / FP	FEAD Yokosuka	Sep 2016	Mar 2017	3	27,496.00	Y		
2.5) SEDAN COMPACT FOREIGN		2017	Okinawa Mazda / Unknown	C / FP	FEAD Yokosuka	Mar 2017	Sep 2017	10	28,033.00	Y		
3) Ambulances												
3.1) AMBULANCE BUS CONV FC 8-12L R/LOAD NONSTANDARD RHD		2019	Unknown / Unknown	C / TBD	** NO PCO **	Oct 2018	Oct 2019	1	64,000.00	Y		
3.2) TRUCK AMB VAN CONV 4X2 2 LITTER RHD JAPAN		2018	Unknown / Unknown	C / FP	FEAD Yokosuka	Mar 2018	Sep 2018	9	70,000.00	Y		
3.3) TRUCK AMBULANCE FIELD COM 4 LITTER 4X4 RIGHT HAND DRIVE		2016	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Sep 2016	Mar 2017	2	85,912.00	Y		
3.3) TRUCK AMBULANCE FIELD COM 4 LITTER 4X4 RIGHT HAND DRIVE		2017	Unknown / Unknown	C / FP	FEAD Yokosuka	Mar 2018	Sep 2018	9	85,988.00	Y		
3.4) TRUCK AMBULANCE FIELD COM 4X4 DED	✓	2016	Unknown / Unknown	MIPR	GSA	Mar 2018	Nov 2018	2	93,081.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles					Aggregated Items: Passenger Carrying Vehicles				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.4) TRUCK AMBULANCE FIELD COM 4X4 DED		2017	Unknown / Unknown	C / TBD	** NO PCO **	Oct 2016	Oct 2016	2	94,943.00	N		
3.5) TRUCK AMBULANCE MODULAR BODY 4X4 2 LITTER (AFV)		2016	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	2	114,326.00	Y		
3.5) TRUCK AMBULANCE MODULAR BODY 4X4 2 LITTER (AFV)		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	8	114,840.00	Y		
3.6) TRUCK AMBULANCE TYPE 1 CONV CAB-CHASSIS NARROW MODULAR BODY NONSTANDARD		2018	Unknown / Unknown	MIPR	Various	Mar 2018	Sep 2018	1	70,000.00	Y		
3.7) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER (AFV)		2016	Wheeled Coach Ind. Inc. / Winter Park, FL	MIPR	GSA	Jul 2017	Sep 2018	2	63,735.00	Y		
3.7) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER (AFV)		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	9	64,960.00	Y		
3.8) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER RIGHT HAND DRIVE		2016	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Aug 2016	Feb 2017	1	64,179.00	Y		
3.8) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER RIGHT HAND DRIVE		2017	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Mar 2017	Sep 2017	9	65,413.00	Y		
4) Utility and Carryall Trucks												
4.2) 105A, SPORT UTILITY VEHICLE 4X4 MIDSIZE		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	7	28,210.00	Y		
4.3) 105B, SPORT UTILITY VEHICLE 4X4 MIDSIZE		2018	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Sep 2018	5	34,040.00	Y		
4.4) 106, SPORT UTILITY VEHICLE 4X4		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	8	35,218.00	Y		
4.8) 24, TRUCK VAN 15 PASSENGER 4X2		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	18	25,457.00	Y		
4.10) 24X, TRUCK VAN 15 PASSENGER AWD		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	1	28,000.00	Y		
4.11) SPORT UTILITY VEHICLE 4X2		2018	Unknown / Unknown	Various	Various	Mar 2018	Sep 2018	2	41,000.00	Y		
4.12) SPORT UTILITY VEHICLE 4X2 COMPACT TO 5400 GVWR		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	10	22,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles				Aggregated Items: Passenger Carrying Vehicles				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.13) SPORT UTILITY VEHICLE 4X2 LARGE 8501 GVWR AND UP (CLASS IV)		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	10	30,500.00	Y		
4.16) SPORT UTILITY VEHICLE 4X4		2018	UNKNOWN / UNKNOWN	Various	Various	Mar 2018	Sep 2018	11	36,250.00	Y		
4.17) SPORT UTILITY VEHICLE 4X4 LARGE 8501 GVWR AND UP (CLASS IV)		2017	Ford Motor Company / Dearborn, MI	C / TBD	** NO PCO **	Nov 2016	Feb 2017	1	30,733.00	N		
4.17) SPORT UTILITY VEHICLE 4X4 LARGE 8501 GVWR AND UP (CLASS IV)		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	10	32,000.00	Y		
4.18) SPORT UTILITY VEHICLE 4X4 MIDSIZE 5401-6799 GVWR (CLASS III)		2018	UNKNOWN / UNKNOWN	Various	Various	Mar 2018	Sep 2018	6	28,000.00	Y		
4.19) SPORT UTILITY VEHICLE 4X4 RHD		2018	Unknown / Unknown	C / FP	FEAD Yokosuka	Mar 2018	Sep 2018	4	48,000.00	Y		
4.20) SPORT UTILITY VEHICLE 4X4 TO 8500 GVWR LAW ENFORCEMENT		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	7	31,895.00	Y		
4.21) TRUCK UTILITY COMM 4X4 4500 GVW (AFV)		2016	Unknown / Unknown	Various	GSA	Mar 2018	Sep 2018	3	40,249.00	Y		
4.21) TRUCK UTILITY COMM 4X4 4500 GVW (AFV)		2017	Unknown / Unknown	Various	GSA	Mar 2018	Sep 2018	11	41,096.00	Y		
4.22) TRUCK UTILITY COMM 4 DOOR 5 PASSENGER (AFV)		2016	GM MOTORS / Detroit, MI	MIPR	GSA	Sep 2016	Mar 2017	3	47,753.00	Y		
4.22) TRUCK UTILITY COMM 4 DOOR 5 PASSENGER (AFV)		2017	GM MOTORS / Detroit, MI	MIPR	GSA	Mar 2017	Sep 2017	16	48,698.00	Y		
4.23) TRUCK UTILITY COMM 4500 GVW (AFV)		2016	Unknown / Unknown	Various	GSA	Mar 2018	Sep 2018	1	30,684.00	Y		
4.23) TRUCK UTILITY COMM 4500 GVW (AFV)		2017	Unknown / Unknown	Various	GSA	Mar 2018	Sep 2018	10	31,322.00	Y		
4.24) TRUCK UTILITY COMM 4X4 4500 GVW RHD JAPAN		2016	GLOBAL FLEET SALES / Unknown	C / FP	FEAD Yokosuka	Aug 2016	Feb 2017	4	27,787.00	Y		
4.24) TRUCK UTILITY COMM 4X4 4500 GVW RHD JAPAN		2017	GLOBAL FLEET SALES / Unknown	C / FP	FEAD Yokosuka	Mar 2017	Sep 2017	10	28,401.00	Y		
4.25) TRUCK UTILITY COMMERCIAL 4X4 4 DOOR (AFV)		2016	Unknown / Unknown	Various	GSA	Mar 2018	Sep 2018	4	62,327.00	Y		
4.25) TRUCK UTILITY COMMERCIAL 4X4 4 DOOR (AFV)		2017	Unknown / Unknown	Various	GSA	Mar 2018	Sep 2018	11	63,511.00	Y		
4.27) TRUCK VAN COMPACT F/C 7 PASSENGER 4200 GVW (AFV)		2016	Chrysler Group / Auburn Hill, MI	MIPR	GSA	Mar 2016	Sep 2016	4	24,336.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles					Aggregated Items: Passenger Carrying Vehicles			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.27) TRUCK VAN COMPACT F/C 7 PASSENGER 4200 GVW (AFV)		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Aug 2017	Feb 2018	14	24,853.00	Y		
4.28) TRUCK VAN COMPACT FORWARD CONTROL 7 PASSENGER 4X2 6000 GVWR		2018	Unknown / Unknown	MIPR	Various	Mar 2018	Sep 2018	5	26,000.00	Y		
4.29) TRUCK VAN F/C 12 PASSENGER 8500 GVW (AFV)		2016	GM MOTORS / Detroit, MI	MIPR	GSA	Mar 2017	Jul 2017	4	19,620.00	Y		
4.29) TRUCK VAN F/C 12 PASSENGER 8500 GVW (AFV)		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	15	19,993.00	Y		
4.30) TRUCK VAN F/C 12 PASSENGER 8600 GVW AC		2018	Unknown / Unknown	Various	Various	Mar 2018	Sep 2018	5	30,000.00	Y		
4.32) TRUCK VAN F/C 15 PASSENGER 8500 GVW (AFV)		2016	Carter Chevrolet / Okarche, OK	MIPR	GSA	Mar 2016	Oct 2016	4	26,030.00	Y		
4.32) TRUCK VAN F/C 15 PASSENGER 8500 GVW (AFV)		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	15	27,434.00	Y		
4.32) TRUCK VAN F/C 15 PASSENGER 8500 GVW (AFV)		2019	Unknown / Unknown	C / TBD	** NO PCO **	Oct 2018	Oct 2018	23	28,854.00	N		
4.33) TRUCK VAN F/C 8 PASSENGER 6000 GVW (AFV)		2016	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	Various	Various	Sep 2017	Mar 2018	4	21,098.00	Y		
4.33) TRUCK VAN F/C 8 PASSENGER 6000 GVW (AFV)		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	Various	Various	Sep 2017	Mar 2018	14	21,567.00	Y		
4.34) TRUCK VAN F/C 8 PASSENGER RIGHT HAND DRIVE		2016	NEW INDUSTRIAL TECH DEVELOPMENT / MACHIDA, JAPAN	C / FP	Various	Jun 2016	Dec 2016	3	28,539.00	Y		
4.34) TRUCK VAN F/C 8 PASSENGER RIGHT HAND DRIVE		2017	Nissan Motor Sales Co., LTD / Minato-Ku	C / FP	Various	Jun 2017	Dec 2017	11	29,112.00	Y		
4.35) TRUCK VAN FORWARD CONTROL 12 PASSENGER 4X2 8501 AND UP GVWR		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	4	24,000.00	Y		
4.37) TRUCK VAN FORWARD CONTROL 4X2 NONSTANDARD		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	2	40,402.00	Y		
4.38) TRUCK VAN FORWARD CONTROL 8 PASSENGER 4X2 TO 8500 GVWR		2018	Unknown / Unknown	Various	Various	Mar 2018	Sep 2018	6	21,500.00	Y		
4.40) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER 4X2		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	3	50,000.00	Y		
4.41) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER RHD		2018	Unknown / Unknown	C / FP	FEAD Yokosuka	Mar 2018	Sep 2018	14	28,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1	P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles	Aggregated Items: Passenger Carrying Vehicles

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment	P-1 Line Item Number / Title: 6007 / General Purpose Trucks

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>)	2.493	4.794	3.442	2.674	0.400	3.074	3.857	3.594	3.022	3.081	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2.493	4.794	3.442	2.674	0.400	3.074	3.857	3.594	3.022	3.081	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2.493	4.794	3.442	2.674	0.400	3.074	3.857	3.594	3.022	3.081	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 budget line item procures various sizes of utility and cargo trucks of commercial design.

Cargo pickup trucks are used to transport personnel and equipment in support of fleet operations where such mobility is necessary to support the mission. The maintenance/utility trucks are used to transport tools/materials necessary for maintenance personnel performing facility maintenance. Panel and multi-stop trucks are used primarily for the movement of material/equipment requiring protection in an enclosed van-type body and freight trucks are used to move palletized material from warehouses to users. Funding is also included in this line for specialized operations such as the Joint POW/MIA Accounting Command (JPAC), and other mission specific equipment.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6007 / General Purpose Trucks				
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-40a	General Purpose Trucks	P-5a			- / 2.493	- / 4.794	- / 3.441	- / 2.674	- / 0.400	- / 3.074
P-40	Total Gross/Weapon System Cost				- / 2.493	- / 4.794	- / 3.442	- / 2.674	- / 0.400	- / 3.074
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The funds requested in FY 2019 will provide for recapitalization requirements to support fielding a fleet of equipment within useful life expectancy. The FY 2019 funding request was reduced by \$1.511 million to account for the availability of prior year execution balances. OCO: Included in this request is FY 2019 Overseas Contingency Operations (OCO) funding for Operation Enduring Freedom - Horn of Africa (OEF-H) in the amount of \$0.400M for Camp Lemonnier, Djibouti. Funds requested are for replacement of general purpose trucks at a core installation that provides key logistics services supporting ship and aircraft movements and command and control services for the warfighter in support of Overseas Contingency Operations. The life expectancy of the cargo trucks being replaced is 6-7 years and the average age is 16 years. Replacing inventory will minimize mission impact by moving towards equipment standardization of parts-stocking, minimize maintenance downtime waiting on parts from the states, and eliminate the need for costly commercial leasing to meet mission requirements. Cargo Trucks, QTY=11, \$0.400M										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6007 / General Purpose Trucks							Aggregated Items Title: General Purpose Trucks					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Utility Trucks																				
1.1) ILS for UTILITY TRUCKS	A		-	-	0.008	-	-	-	-	-	0.028	-	-	-	-	-	-	-	-	-
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED ^(†)	A		19,083.33	24	0.458	-	-	-	19,624.00	20	0.392	19,735.00	12	0.237	-	-	-	19,735.00	12	0.237
Subtotal: 1) Utility Trucks			-	-	0.466	-	-	-	-	-	0.420	-	-	0.237	-	-	-	-	-	0.237
2) Cargo Trucks																				
2.1) 129F, TRUCK STAKE 8501 AND UP GVWR CREW CAB 4X4 ^(†)	A		-	-	-	-	-	-	53,743.00	8	0.430	54,818.00	7	0.384	-	-	-	54,818.00	7	0.384
2.2) 34X, TRUCK CARGO 4X4 8501 AND UP GVWR ^(†)	A		-	-	-	-	-	-	40,995.00	5	0.205	41,815.00	8	0.335	-	-	-	41,815.00	8	0.335
2.4) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR AND UP 8 FT BED CREW CAB ^(†)	A		-	-	-	-	-	-	23,537.00	4	0.094	24,008.00	17	0.408	-	-	-	24,008.00	17	0.408
2.5) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR CREW CAB ^(†)	A		-	-	-	-	-	-	-	-	-	23,528.00	9	0.212	-	-	-	23,528.00	9	0.212
2.7) 55, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB ^(†)	A		-	-	-	-	-	-	23,421.00	5	0.117	23,889.00	8	0.191	-	-	-	23,889.00	8	0.191
2.8) 55C, TRUCK CARGO PICKUP 4X4 5800 GVWR COMPACT ^(†)	A		-	-	-	-	-	-	23,005.00	6	0.138	-	-	-	-	-	-	-	-	-
2.9) 57A, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB ^(†)	A		-	-	-	-	-	-	28,197.00	38	1.071	28,761.00	26	0.748	-	-	-	28,761.00	26	0.748
2.10) CARGO TRUCK ^(†)	A		-	-	-	-	-	-	27,857.00	14	0.390	-	-	-	-	-	-	-	-	-
2.11) ILS for CARGO TRUCKS	A		-	-	-	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	0.008
2.12) TRK MAINT UTIL 0722 ^(†)	A		33,000.00	3	0.099	35,924.00	4	0.144	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1					P-1 Line Item Number / Title: 6007 / General Purpose Trucks										Aggregated Items Title: General Purpose Trucks					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.13) TRK WRECKER ^(†)	A		-	-	-	92,666.67	3	0.278	-	-	-	-	-	-	-	-	-	-	-	-
2.15) TRUCK CARGO PICKUP 4 DOOR 4X4 9200 GVW ^(†)	A		31,000.00	3	0.093	36,124.00	6	0.217	-	-	-	-	-	0.000	36,363.64	11	0.400	36,363.64	11	0.400
2.16) TRUCK CARGO PICKUP 4 DR 8800 GVW ^(†)	A		30,428.57	7	0.213	29,289.00	5	0.146	-	-	-	-	-	-	-	-	-	-	-	-
2.17) TRUCK CARGO PICKUP 4 DR 9000 GVW W/WINCH ^(†)	A		-	-	-	30,452.00	7	0.213	-	-	-	-	-	-	-	-	-	-	-	-
2.18) TRUCK CARGO PICKUP 4400 GVW 4X4 COMPACT RIGHT HAND DRIVE ^(†)	A		23,750.00	4	0.095	24,917.00	7	0.174	-	-	-	-	-	-	-	-	-	-	-	-
2.21) TRUCK CARGO PICKUP COMPACT 4X4 MIN 5050 GVWR AC CREW CAB ^(†)	A		-	-	-	-	-	-	36,000.00	16	0.576	-	-	-	-	-	-	-	-	-
2.22) TRUCK MAINTENANCE 10 TON W/800GAL FUEL STORAGE ^(†)	A		152,500.00	2	0.305	155,114.00	5	0.776	-	-	-	-	-	-	-	-	-	-	-	-
2.23) TRUCK MULTISTOP DELIVERY GED 14000GVW ^(†)	A		53,000.00	2	0.106	53,731.00	5	0.269	-	-	-	-	-	-	-	-	-	-	-	-
2.24) TRUCK PANEL FORWARD CONTROL ^(†)	A		27,333.33	3	0.082	27,486.00	4	0.110	-	-	-	-	-	-	-	-	-	-	-	-
2.25) TRUCK PANEL FORWARD CONTROL 6000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	21,591.00	7	0.151	-	-	-	21,591.00	7	0.151
2.26) TRUCK PICK-UP CARGO 4X2 3800 GVW ^(†)	A		19,600.00	5	0.098	19,958.00	4	0.080	-	-	-	-	-	-	-	-	-	-	-	-
2.27) TRUCK PICK-UP CARGO 4X2 5050 GVW ^(†)	A		20,000.00	6	0.120	20,378.00	5	0.102	-	-	-	-	-	-	-	-	-	-	-	-
2.28) TRUCK PICK-UP CARGO 4X2 6050 GVW ^(†)	A		21,500.00	4	0.086	21,826.00	7	0.153	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6007 / General Purpose Trucks							Aggregated Items Title: General Purpose Trucks				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.29) TRUCK PICKUP CARGO 4X2 GED AUTOMATIC TRANSMISSION ^(†)	A		18,333.33	6	0.110	18,401.00	5	0.092	-	-	-	-	-	-	-	-	-	-	-	-
2.30) TRUCK PICK-UP CARGO 8FT BED 6250 GVW ^(†)	A		27,600.00	5	0.138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.31) TRUCK STAKE 4X2 GED 25500 GVW ^(†)	A		69,000.00	2	0.138	92,767.00	6	0.557	-	-	-	-	-	-	-	-	-	-	-	-
2.32) TRUCK STAKE 4X2 GED 43000 GVW ^(†)	A		-	-	-	89,382.00	6	0.536	-	-	-	-	-	-	-	-	-	-	-	-
2.33) TRUCK STAKE 4X2 GED 52000 GVW ^(†)	A		-	-	-	121,041.00	3	0.363	-	-	-	-	-	-	-	-	-	-	-	-
2.34) TRUCK STAKE 4X2 GED 8500 GVW ^(†)	A		27,000.00	3	0.081	27,631.00	4	0.111	-	-	-	-	-	-	-	-	-	-	-	-
2.35) TRUCK STAKE 4X2 GED 8600 GVW ^(†)	A		25,000.00	3	0.075	25,535.00	5	0.128	-	-	-	-	-	-	-	-	-	-	-	-
2.36) TRUCK SUV 4 DR 7000 GVW ^(†)	A		37,600.00	5	0.188	38,370.00	9	0.345	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) Cargo Trucks			-	-	2.027	-	-	4.794	-	-	3.021	-	-	2.437	-	-	0.400	-	-	2.837
Total			-	-	2.493	-	-	4.794	-	-	3.441	-	-	2.674	-	-	0.400	-	-	3.074

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

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6007 / General Purpose Trucks						Aggregated Items: General Purpose Trucks			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Utility Trucks												
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED		2016	John Deere / Cary, NC	MIPR	DLA	Mar 2016	Jun 2016	24	19,064.00	Y		
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Aug 2018	15	19,624.00	Y		
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED	✓	2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Mar 2018	5	19,624.00	Y		
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED		2019	Unknown / Unknown	MIPR	GSA	Mar 2019	Mar 2019	12	19,735.00	Y		
2) Cargo Trucks												
2.1) 129F, TRUCK STAKE 8501 AND UP GVWR CREW CAB 4X4		2018	UNKNOWN / UNKNOWN	MIPR	GSA	Apr 2018	Nov 2018	8	53,743.00	Y		
2.2) 34X, TRUCK CARGO 4X4 8501 AND UP GVWR		2018	Unknown / Unknown	MIPR	GSA	Jun 2018	Dec 2018	5	40,995.00	Y		
2.4) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR AND UP 8 FT BED CREW CAB		2018	Unknown / Unknown	MIPR	GSA	Jun 2018	Dec 2018	4	23,537.00	Y		
2.5) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR CREW CAB		2019	Unknown / Unknown	MIPR	GSA	Jan 2019	Jan 2019	9	23,528.00	Y		
2.7) 55, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB		2018	Unknown / Unknown	MIPR	GSA	Jun 2018	Dec 2018	5	23,421.00	Y		
2.8) 55C, TRUCK CARGO PICKUP 4X4 5800 GVWR COMPACT		2018	Unknown / Unknown	MIPR	GSA	Jun 2018	Dec 2018	6	23,005.00	Y		
2.9) 57A, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB		2018	Unknown / Unknown	MIPR	GSA	Jun 2018	Dec 2018	38	28,197.00	Y		
2.10) CARGO TRUCK	✓	2018	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Sep 2018	14	27,857.00	Y		
2.12) TRK MAINT UTIL 0722		2016	JOHNSONS OF KINGFISHER/ KINGFISHER, OK / Unknown	MIPR	GSA	Aug 2016	Dec 2016	3	33,112.00	Y		
2.12) TRK MAINT UTIL 0722		2017	JOHNSONS OF KINGFISHER/ KINGFISHER, OK / Unknown	MIPR	GSA	Sep 2017	Jan 2018	4	35,924.00	Y		
2.13) TRK WRECKER		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Aug 2018	3	92,666.67	Y		
2.15) TRUCK CARGO PICKUP 4 DOOR 4X4 9200 GVW		2016	GM MOTORS / Detroit, MI	MIPR	Various	Mar 2016	Jul 2016	3	30,887.00	Y		
2.15) TRUCK CARGO PICKUP 4 DOOR 4X4 9200 GVW		2017	GM MOTORS / Detroit, MI	MIPR	Various	Dec 2017	Apr 2018	6	36,124.00	Y		
2.15) TRUCK CARGO PICKUP 4 DOOR 4X4 9200 GVW	✓	2019	Unknown / Unknown	C / TBD	** NO PCO **	Oct 2018	Oct 2018	11	36,363.64	N		
2.16) TRUCK CARGO PICKUP 4 DR 8800 GVW		2016	Ford Motor Company / Dearborn, MI	MIPR	GSA	Mar 2016	Oct 2016	7	30,392.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6007 / General Purpose Trucks						Aggregated Items: General Purpose Trucks			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.16) TRUCK CARGO PICKUP 4 DR 8800 GVW		2017	Ford Motor Company / Dearborn, MI	MIPR	GSA	Dec 2017	Jul 2018	5	29,289.00	Y		
2.17) TRUCK CARGO PICKUP 4 DR 9000 GVW W/WINCH		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	7	30,452.00	Y		
2.18) TRUCK CARGO PICKUP 4400 GVW 4X4 COMPACT RIGHT HAND DRIVE		2016	Unknown / Unknown	C / FP	FEAD Yokosuka	Mar 2018	Sep 2018	4	23,658.00	Y		
2.18) TRUCK CARGO PICKUP 4400 GVW 4X4 COMPACT RIGHT HAND DRIVE		2017	Unknown / Unknown	C / FP	FEAD Yokosuka	Mar 2018	Sep 2018	7	24,917.00	Y		
2.21) TRUCK CARGO PICKUP COMPACT 4X4 MIN 5050 GVWR AC CREW CAB		2018	Unknown / Unknown	MIPR	Various	Jun 2018	Dec 2018	16	36,000.00	Y		
2.22) TRUCK MAINTENANCE 10 TON W/800GAL FUEL STORAGE		2016	Unknown / Unknown	MIPR	GSA	Mar 2018	Jul 2018	2	152,739.00	Y		
2.22) TRUCK MAINTENANCE 10 TON W/800GAL FUEL STORAGE		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Jul 2018	5	155,114.00	Y		
2.23) TRUCK MULTISTOP DELIVERY GED 14000GVW		2016	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	2	52,799.00	Y		
2.23) TRUCK MULTISTOP DELIVERY GED 14000GVW		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	5	53,731.00	Y		
2.24) TRUCK PANEL FORWARD CONTROL		2016	Unknown / Unknown	MIPR	GSA	Mar 2018	Jul 2018	3	27,362.00	Y		
2.24) TRUCK PANEL FORWARD CONTROL		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Jul 2018	4	27,486.00	Y		
2.25) TRUCK PANEL FORWARD CONTROL 6000 GVWR RHD		2019	Unknown / Unknown	MIPR	GSA	Jan 2019	Jan 2019	7	21,591.00	Y		
2.26) TRUCK PICK-UP CARGO 4X2 3800 GVW		2016	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2017	Oct 2017	5	19,528.00	Y		
2.26) TRUCK PICK-UP CARGO 4X2 3800 GVW		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2017	Oct 2017	4	19,958.00	Y		
2.27) TRUCK PICK-UP CARGO 4X2 5050 GVW		2016	FCA US/AUBURN HILLS, MI / Unkown	MIPR	GSA	Nov 2016	Jun 2017	6	19,939.00	Y		
2.27) TRUCK PICK-UP CARGO 4X2 5050 GVW		2017	FCA US/AUBURN HILLS, MI / Unkown	MIPR	GSA	Apr 2017	Nov 2017	5	20,378.00	Y		
2.28) TRUCK PICK-UP CARGO 4X2 6050 GVW		2016	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2017	Oct 2017	4	21,384.00	Y		
2.28) TRUCK PICK-UP CARGO 4X2 6050 GVW		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2017	Oct 2017	7	21,826.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6007 / General Purpose Trucks				Aggregated Items: General Purpose Trucks				

Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.29) TRUCK PICKUP CARGO 4X2 GED AUTOMATIC TRANSMISSION		2016	Ford Motor Company / Dearborn, MI	MIPR	GSA	Dec 2017	Dec 2017	6	18,390.00	Y		
2.29) TRUCK PICKUP CARGO 4X2 GED AUTOMATIC TRANSMISSION		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Dec 2017	Dec 2017	5	18,401.00	Y		
2.30) TRUCK PICK-UP CARGO 8FT BED 6250 GVW		2016	GM MOTORS / Detroit, MI	MIPR	GSA	Nov 2016	Apr 2017	5	27,586.00	Y		
2.31) TRUCK STAKE 4X2 GED 25500 GVW		2016	JOHNSONS OF KINGFISHER / KINGFISHER, OK	MIPR	GSA	Sep 2016	Mar 2017	2	69,138.00	Y		
2.31) TRUCK STAKE 4X2 GED 25500 GVW		2017	JOHNSONS OF KINGFISHER / KINGFISHER, OK	MIPR	GSA	Jun 2017	Dec 2017	6	92,767.00	Y		
2.32) TRUCK STAKE 4X2 GED 43000 GVW		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	6	89,382.00	Y		
2.33) TRUCK STAKE 4X2 GED 52000 GVW		2017	Brasada/Northside Ford / San Antonio, TX	MIPR	GSA	Mar 2017	Mar 2017	3	121,041.00	Y		
2.34) TRUCK STAKE 4X2 GED 8500 GVW		2016	Brasada/Northside Ford / San Antonio, TX	MIPR	GSA	Mar 2017	Aug 2017	3	27,133.00	Y		
2.34) TRUCK STAKE 4X2 GED 8500 GVW		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Oct 2018	4	27,631.00	Y		
2.35) TRUCK STAKE 4X2 GED 8600 GVW		2016	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	3	25,059.00	Y		
2.35) TRUCK STAKE 4X2 GED 8600 GVW		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	5	25,535.00	Y		
2.36) TRUCK SUV 4 DR 7000 GVW		2016	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	5	37,595.00	Y		
2.36) TRUCK SUV 4 DR 7000 GVW		2017	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	9	38,370.00	Y		

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment	P-1 Line Item Number / Title: 6024 / Construction & Maint Equip

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>)	1.266	18.553	34.970	20.994	0.000	20.994	21.525	21.930	22.344	22.811	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.266	18.553	34.970	20.994	0.000	20.994	21.525	21.930	22.344	22.811	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.266	18.553	34.970	20.994	0.000	20.994	21.525	21.930	22.344	22.811	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 budget line item funds procurement of equipment used for a variety of construction, maintenance, and repair operations. This equipment is used by the Naval Expeditionary Combat Command, Naval Beach Group, Maritime Prepositioning Force, and other Special Operating Units, in support of advance bases and camp sites.

Earth Moving Equipment includes equipment such as ditching machines, excavators, graders, wheeled and tracked loaders, rollers, compactors, scrapers, off-highway dump trucks, crawler tractors, and industrial tractors. This equipment constitutes the backbone of the Naval Construction Force (NCF) in meeting their advanced base construction mission. Dependable earth moving equipment in the fleet and shore inventories is required for the building and renovation of runways and roads, demolition activities at old building sites, and underground utilities excavation.

Miscellaneous Construction Equipment includes four major categories of construction equipment:

-General mix, batch, concrete and asphalt working equipment consists of equipment such as portable concrete mixers, rock crushers, asphalt and water distributors, aggregate spreaders, and asphalt and rubberized compound heating kettles which are used to provide aggregate materials for asphalt mixing plants and concrete batching plants. This equipment is used by the NCF to provide advance base and forward port facility construction and runway, taxi apron, and work area paving projects.

-Air compressors and drilling operations equipment consists of portable air compressors of various sizes and capacities for construction and maintenance projects; rock drills for quarry production, pile hammers and extractors for construction, repair, and disassembly of causeways, docks, piers, and wharves; earth augers to support electrical distribution and communications systems; well drilling machines to supply water in support of Marine Corps contingencies and construction battalions at camp sites and advance bases.

-Floodlights and generators consists of portable floodlight trailers (with 6kW generators) which are used by the NCF to provide light for around-the-clock construction efforts and generators used as portable power to support power tools, runway lighting, and backup systems for electrical power distribution. This equipment is part of the DOD Mobile Electric Power Program (PM-MEP) which provides reliable standardized generators for all DOD components.

Other miscellaneous maintenance equipment consists of welders, decontamination apparatus, machine shop trailers and shredders. This equipment is used for a variety of maintenance, repair and construction operations and for purification and decontamination of personnel and equipment.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment		P-1 Line Item Number / Title: 6024 / Construction & Maint Equip
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		
Cranes (Weight Handling Equipment) includes truck or wheel-mounted cranes, straddle lifts, and crawler cranes. Truck mounted cranes have either lattice or hydraulic booms and range in size from 25 to 150 tons. Wheel-mounted cranes have hydraulic booms and range in size from 8 to 90 tons. Crawler cranes are used primarily for drag line and clam shell operations on terrain inaccessible with truck or wheel-mounted cranes. Amphibious Construction Battalions (PHIBCBs) use wheel-mounted hydraulic cranes and crawler cranes in over-the-beach operations and on elevated causeways (ELCAS). This program also funds the procurement of Expeditionary Material Handling Equipment (ExMHE) to satisfy operational requirements and replaces overaged non-repairable equipment used in material handling operations at world-wide Navy activities. Expeditionary MHE is used to equip and sustain expeditionary forces to execute combat, combat support, and combat service support missions. Expeditionary MHE belongs to expeditionary activities that are either forward deployed units or whose mission is in direct support of those units. The funds requested in FY18 will provide for, but not limited to: Truck Forklift 5000 LB, TRFK Forklift RT, 11k, EXT Boom, Truck Forklift 12,000 LB Rough Terrain, Truck Forklift t25,000 LBCAP PRT DED W/Top Handler Forklift 53k		

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment	P-1 Line Item Number / Title: 6024 / Construction & Maint Equip

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-40a	Construction & Maint Equip	P-5a			- / 1.266	- / 18.553	- / 34.970	- / 20.994	- / -	- / 20.994
P-40	Total Gross/Weapon System Cost				- / 1.266	- / 18.553	- / 34.970	- / 20.994	- / 0.000	- / 20.994

*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:

The funds requested for FY19 will provide for:

- Cold Form Steel Systems - A method of building that is used commercially and is now planned for military use. This system will increase life safety due to less reliance on convoys to transport building materials through operational environments to operational building sites.
- SLEP of Earthmoving equipment which has reached or is approaching the end of life. The SLEP program will extend the life of the assets without the full cost of recapitalizing/replacing the asset and can be done at a lower cost than replacement.
- Investment in generators which are more fuel efficient than the current deployed assets, which in turn also lessen the burden on convoys for fuel.
- Various Earthmoving equipment which has reached or surpassed its useful life.
- Miscellaneous Construction equipment in need of recapitalization as it has reached or surpassed its useful life.

The requested funding supports the Naval Construction Force, Explosive Ordinance Units, Coastal Riverine Force, Naval Beach Groups and Naval Special Warfare (NSW). The NSW MFP-2 service-common funding provides mission critical commodities to US Navy SEAL combat operations in forward deployed contingency locations. Increase reflects establishment, approval and funding of NSW service-common Table of Allowance (TOA) to begin correcting shortfalls and bring NSW forces into alignment with required outfitting standards in accordance with SOCOM-USN Memorandum of Agreement. These materiel assets support NSW and other Expeditionary Forces core mission requirements and are essential to the readiness and battlefield effectiveness in winning the current fight against ISIS and other extremist elements.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6024 / Construction & Maint Equip										Aggregated Items Title: Construction & Maint Equip				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) EARTHMOVING																				
1.1) ARMORED SKID STEER LOADER ^(†)	A		-	-	-	299,041.00	10	2.990	-	-	-	-	-	-	-	-	-	-	-	-
1.2) SKID STEER LOADER ^(†)	A		-	-	-	183,789.00	10	1.838	-	-	-	-	-	-	-	-	-	-	-	-
1.3) GRADER ROAD 6X4 12 FT BLADE SCARIFIER ^(†)	A		-	-	-	-	-	-	286,305.00	1	0.286	-	-	-	-	-	-	-	-	-
1.4) GRADER MOTORIZED ^(†)	A		-	-	-	200,308.00	1	0.200	-	-	-	-	-	-	-	-	-	-	-	-
1.5) LOADER SCOOP WH ^(†)	A		-	-	-	137,691.00	1	0.138	-	-	-	-	-	-	-	-	-	-	-	-
1.6) LOADER SCOOP WHL 2.5CY MP BKT FKS ^(†)	A		-	-	-	320,890.00	5	1.604	184,804.00	12	2.218	-	-	-	-	-	-	-	-	-
1.7) LOADER SKID CLOSED CAB DED B41/APH/FK ^(†)	A		101,333.33	3	0.304	94,033.00	1	0.094	-	-	-	105,379.00	2	0.211	-	-	-	105,379.00	2	0.211
1.8) LOADER SKID CLOSED CAB DED B41/APH/FK (RESERVE FORCES) ^{(1)(†)}	A		-	-	-	94,033.00	1	0.094	103,313.00	39	4.029	-	-	-	-	-	-	-	-	-
1.9) EXCAVATOR CRAWLER ^(†)	A		-	-	-	394,491.50	3	1.183	-	-	-	-	-	-	-	-	-	-	-	-
1.10) ROLLER MOTORIZED ^(†)	A		-	-	-	-	-	-	206,493.00	2	0.413	-	-	-	-	-	-	-	-	-
1.11) SLEP EARTHMOVING EQUIPMENT PROGRAM ^(†)	A		-	-	-	-	-	-	150,000.00	12	1.800	153,000.00	40	6.120	-	-	-	153,000.00	40	6.120
1.12) TRACTOR CRAWLER DED 240 HP W/WATER FORD ^(†)	A		-	-	-	626,580.00	2	1.253	563,754.00	1	0.564	575,029.00	4	2.300	-	-	-	575,029.00	4	2.300
1.15) TRACTOR WHEELED INDUST 4X2 93HP LDR 1.3 CYD BCKT ^(†)	A		-	-	-	230,548.00	5	1.153	-	-	-	-	-	-	-	-	-	-	-	-
1.16) TRACTOR WHEELED INDUST 4X2 60 NET HP ^(†)	A		-	-	-	142,824.00	1	0.143	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6024 / Construction & Maint Equip								Aggregated Items Title: Construction & Maint Equip					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
1.17) TRACTOR WHEELED INDUSTRIAL 50 - 70 HP ^(†)	A		-	-	-	-	-	-	75,000.00	5	0.375	75,500.00	2	0.151	-	-	-	75,500.00	2	0.151	
1.18) TRACTOR WHEELED LDR/ BKHO ^(†)	A		-	-	-	-	-	-	165,409.00	1	0.165	-	-	-	-	-	-	-	-	-	
1.19) TRACTOR WHEELED LOADER 2 CY BUCKET ^(†)	A		-	-	-	-	-	-	-	-	-	164,000.00	2	0.328	-	-	-	164,000.00	2	0.328	
1.20) TRACTOR WHEELED LOADER 5 CY BUCKET ^(†)	A		-	-	-	-	-	-	-	-	-	185,000.00	2	0.370	-	-	-	185,000.00	2	0.370	
1.21) TRC WH IND10-70 ^(†)	A		-	-	-	64,849.00	1	0.065	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) EARTHMOVING			-	-	0.304	-	-	10.755	-	-	9.850	-	-	9.480	-	-	-	-	-	9.480	
2) MISC. CONSTRUCTION																					
2.1) ASPHALT RECYCLER ^(†)	A		-	-	-	260,000.00	1	0.260	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) COLD FORMED STEEL FACTORY SYSTEMS ^(†)	A		-	-	-	-	-	-	-	-	-	450,000.00	4	1.800	-	-	-	450,000.00	4	1.800	
2.3) CONCRETE MIXER ^(†)	A		-	-	-	-	-	-	24,278.00	61	1.481	-	-	-	-	-	-	-	-	-	
2.4) CONCRETE SAW ^(†)	A		-	-	-	-	-	-	25,361.00	6	0.152	-	-	-	-	-	-	-	-	-	
2.5) ECU 8T 35KW GENERATOR TRAILER MOUNT ^(†)	A		-	-	-	105,212.00	2	0.210	107,316.00	12	1.288	-	-	-	-	-	-	-	-	-	
2.6) ECU 8T 35KW GENERATOR TRAILER MOUNT (RESERVE FORCES) ^(†)	A		-	-	-	-	-	-	107,316.00	2	0.215	-	-	-	-	-	-	-	-	-	
2.7) FLOODLIGHT SET ELECTRIC SELF-CONTAINED TRLR-MTD ^(†)	A		13,500.00	4	0.054	-	-	-	-	-	-	10,470.00	32	0.335	-	-	-	10,470.00	32	0.335	
2.8) GEN 35KW AMMPS MEP 1060 SKID MTD DED ^(†)	A		-	-	-	-	-	-	32,861.00	6	0.197	-	-	-	-	-	-	-	-	-	
2.9) GEN 60KW 50/60HZ AMMPS	A		31,785.71	14	0.445	-	-	-	-	-	-	50,995.00	35	1.785	-	-	-	50,995.00	35	1.785	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6024 / Construction & Maint Equip							Aggregated Items Title: Construction & Maint Equip					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
NEW GENERATION MEP ^(†)																				
2.11) GEN SET 30KW DIESEL ENGINE 30 KW MEP805B ^(†)	A		-	-	-	35,246.00	4	0.141	-	-	-	-	-	-	-	-	-	-	-	-
2.13) GENERATOR 60 KW MEP806B ^(†)	A		-	-	-	44,328.00	1	0.044	-	-	-	-	-	-	-	-	-	-	-	-
2.14) GENERATOR SET 100KW MEP807A TACT QUIET DED SKID ^(†)	A		91,000.00	2	0.182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.15) GENERATOR SET 30KW AMMPS MEP 1060 SKID MTD DED ^(†)	A		-	-	-	-	-	-	-	-	-	31,432.00	1	0.031	-	-	-	31,432.00	1	0.031
2.16) GENERATOR SET 60KW AMMPS MEP 1070 SKID ^(†)	A		-	-	-	50,000.00	125	6.250	35,992.00	102	3.671	-	-	-	-	-	-	-	-	-
2.17) LUBE SKID ^(†)	A		-	-	-	-	-	-	121,000.00	5	0.605	123,420.00	7	0.864	-	-	-	123,420.00	7	0.864
2.18) MIXER CONCRETE 6 CUBIC METERS ^(†)	A		-	-	-	359,173.00	2	0.718	-	-	-	-	-	-	-	-	-	-	-	-
2.19) SWEEPER MAGNET SELF-PROPELLED TRACTOR MTD 8FT ^(†)	A		-	-	-	-	-	-	31,836.00	9	0.287	-	-	-	-	-	-	-	-	-
2.20) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED ^(†)	A		37,000.00	1	0.037	-	-	-	37,916.00	3	0.114	38,916.00	1	0.039	-	-	-	38,916.00	1	0.039
Subtotal: 2) MISC. CONSTRUCTION			-	-	0.718	-	-	7.623	-	-	8.010	-	-	4.854	-	-	-	-	-	4.854
3) CRANES																				
3.1) CRANE HYD TRK MTD 40 TON (RESERVE FORCES) ^(†)	A		-	-	-	-	-	-	570,193.00	2	1.140	-	-	-	-	-	-	-	-	-
3.2) CRANE HYD TRK MTD 40 TON ^(†)	A		-	-	-	-	-	-	-	-	-	603,000.00	4	2.412	-	-	-	603,000.00	4	2.412
3.3) CRANE WHEEL MOUNTED SWING CAB 4X4 15-40 TON ^(†)	A		-	-	-	-	-	-	-	-	-	379,000.00	2	0.758	-	-	-	379,000.00	2	0.758
3.6) EXCAVATOR CRAWLER	A		-	-	-	-	-	-	363,000.00	1	0.363	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6024 / Construction & Maint Equip									Aggregated Items Title: Construction & Maint Equip					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
MOUNTED HYDRAULIC OPERATED NONSTANDARD ^(†)																				
Subtotal: 3) CRANES			-	-	0.000	-	-	-	-	-	1.503	-	-	3.170	-	-	-	-	-	3.170
4) ILS SUPPORT COST																				
4.1) ILS SUPPORT COSTS	A		-	-	0.244	-	-	0.175	-	-	0.736	-	-	0.561	-	-	-	-	-	0.561
Subtotal: 4) ILS SUPPORT COST			-	-	0.244	-	-	0.175	-	-	0.736	-	-	0.561	-	-	-	-	-	0.561
5) EXPEDITIONARY MATERIAL HANDLING EQUIPMENT																				
5.1) FORKLIFT 11K DED PRT ROUGH TERRAIN (182011) ^(†)	A		-	-	-	-	-	-	190,000.00	3	0.570	-	-	-	-	-	-	-	-	-
5.2) FORKLIFT 11K DED SRT ^(†)	A		-	-	-	-	-	-	50,000.00	2	0.100	-	-	-	-	-	-	-	-	-
5.3) FORKLIFT 15K DED SRT ^(†)	A		-	-	-	-	-	-	88,000.00	2	0.176	-	-	-	-	-	-	-	-	-
5.4) FORKLIFT 6K DED PRT ^(†)	A		-	-	-	-	-	-	-	-	-	45,000.00	4	0.180	-	-	-	45,000.00	4	0.180
5.5) ILS for Truck, Forklift, 7-11K MMV ⁽²⁾	A		-	-	-	-	-	-	-	-	0.039	-	-	-	-	-	-	-	-	-
5.6) TRFK D 53K PRT (182051) ^(†)	A		-	-	-	-	-	-	886,160.00	3	2.658	-	-	-	-	-	-	-	-	-
5.7) Truck, Forklift, 10K DED (134010) ^(†)	A		-	-	-	-	-	-	126,988.00	4	0.508	-	-	-	-	-	-	-	-	-
5.8) TRFK D 53LB PRT ^(†)	A		-	-	-	-	-	-	-	-	-	535,500.00	1	0.536	-	-	-	535,500.00	1	0.536
5.9) TRFK D 12LB PRT ^(†)	A		-	-	-	-	-	-	-	-	-	178,068.00	1	0.178	-	-	-	178,068.00	1	0.178
5.10) Truck, Forklift, 12K RT (182012) ^(†)	A		-	-	-	-	-	-	185,000.00	22	4.070	-	-	-	-	-	-	-	-	-
5.11) TRFK D 20LB PRT ^(†)	A		-	-	-	-	-	-	-	-	-	290,700.00	7	2.035	-	-	-	290,700.00	7	2.035
5.14) Truck, Forklift, 25K DED (134025) ^(†)	A		-	-	-	-	-	-	130,000.00	2	0.260	-	-	-	-	-	-	-	-	-
5.15) Truck, Forklift, 6K DED (133006) ^(†)	A		-	-	-	-	-	-	38,160.00	4	0.153	-	-	-	-	-	-	-	-	-
5.16) Truck, Forklift, 6K LPG (130506) ^(†)	A		-	-	-	-	-	-	31,081.00	3	0.093	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6024 / Construction & Maint Equip							Aggregated Items Title: Construction & Maint Equip						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.17) Truck, Forklift, 7-11K MMV (182011) ^(†)	A		-	-	-	-	-	-	156,109.00	40	6.244	-	-	-	-	-	-	-	-	-
Subtotal: 5) EXPEDITIONARY MATERIAL HANDLING EQUIPMENT			-	-	0.000	-	-	-	-	-	14.871	-	-	2.929	-	-	-	-	-	2.929
Total			-	-	1.266	-	-	18.553	-	-	34.970	-	-	20.994	-	-	-	-	-	20.994

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

(†) indicates the presence of a P-5a

Footnotes:

(1) FY17 to FY18 unit cost increase due to updated, more accurate pricing estimates

(2) ILS is developed in the same year as the product is being procured.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					Aggregated Items: Construction & Maint Equip			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) EARTHMOVING												
1.1) ARMORED SKID STEER LOADER		2017	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Oct 2017	Apr 2018	10	299,041.00	Y		
1.2) SKID STEER LOADER		2017	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Sep 2017	Sep 2017	10	183,789.00	Y		
1.3) GRADER ROAD 6X4 12 FT BLADE SCARIFIER		2018	UNKNOWN / UNKNOWN	MIPR	DLA	Jan 2018	May 2018	1	286,305.00	Y		
1.4) GRADER MOTORIZED		2017	Gaithersburg Farmers Supply / Gaithersburg, MD	MIPR	DSCP	Sep 2017	Mar 2018	1	200,308.00	Y		
1.5) LOADER SCOOP WH		2017	Gaithersburg Farmers Supply / Gaithersburg, MD	MIPR	DLA	Sep 2017	Sep 2018	1	137,691.00	Y		
1.6) LOADER SCOOP WHL 2.5CY MP BKT FKS		2017	VARIOUS / VARIOUS	MIPR	DLA	Oct 2017	Feb 2018	5	320,890.00	Y		
1.6) LOADER SCOOP WHL 2.5CY MP BKT FKS		2018	UNKNOWN / UNKNOWN	MIPR	DLA	Jan 2018	May 2018	12	184,804.00	Y		
1.7) LOADER SKID CLOSED CAB DED B41/APH/FK		2016	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Aug 2016	Feb 2017	3	101,287.00	Y		
1.7) LOADER SKID CLOSED CAB DED B41/APH/FK		2017	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Jun 2017	Nov 2017	1	94,033.00	Y		
1.7) LOADER SKID CLOSED CAB DED B41/APH/FK		2019	UNKNOWN / UNKNOWN	C / TBD	DLA	Oct 2018	Oct 2018	2	105,379.00	Y		
1.8) LOADER SKID CLOSED CAB DED B41/APH/FK (RESERVE FORCES) ⁽¹⁾		2017	VARIOUS / VARIOUS	MIPR	DLA	Oct 2017	Feb 2018	1	94,033.00	Y		
1.8) LOADER SKID CLOSED CAB DED B41/APH/FK (RESERVE FORCES) ⁽¹⁾		2018	UNKNOWN / UNKNOWN	MIPR	DLA	Jun 2018	Oct 2018	39	103,313.00	Y		
1.9) EXCAVATOR CRAWLER		2017	VARIOUS / VARIOUS	MIPR	DLA	Sep 2017	Mar 2018	3	394,491.50	Y		
1.10) ROLLER MOTORIZED		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	May 2018	2	206,493.00	Y		
1.11) SLEP EARTHMOVING EQUIPMENT PROGRAM		2018	Unknown / Unknown	MIPR	DSCP	Apr 2018	Jan 2019	12	150,000.00	Y		
1.11) SLEP EARTHMOVING EQUIPMENT PROGRAM		2019	Unknown / Unknown	MIPR	DSCP	Jan 2019	Jan 2019	40	153,000.00	Y		
1.12) TRACTOR CRAWLER DED 240 HP W/WATER FORD		2017	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Oct 2017	Apr 2018	2	626,580.00	Y		
1.12) TRACTOR CRAWLER DED 240 HP W/WATER FORD		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	1	563,754.00	Y		
1.12) TRACTOR CRAWLER DED 240 HP W/WATER FORD		2019	Unknown / Unknown	MIPR	DLA	Jan 2019	Jan 2019	4	575,029.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					Aggregated Items: Construction & Maint Equip				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.15) TRACTOR WHEELED INDUST 4X2 93HP LDR 1.3 CYD BCKT		2017	VARIOUS / VARIOUS	MIPR	DSCP	Oct 2017	Oct 2017	5	230,548.00	Y		
1.16) TRACTOR WHEELED INDUST 4X2 60 NET HP		2017	John Deere / Cary, NC	MIPR	DSCP	May 2017	Nov 2017	1	142,824.00	Y		
1.17) TRACTOR WHEELED INDUSTRIAL 50 - 70 HP		2018	Unknown / Unknown	MIPR	DSCP	Apr 2018	Aug 2018	5	75,000.00	Y		
1.18) TRACTOR WHEELED LDR/ BKHO		2018	Unknown / Unknown	MIPR	DSCP	Apr 2018	Aug 2018	1	165,409.00	Y		
1.19) TRACTOR WHEELED LOADER 2 CY BUCKET		2019	Unknown / Unknown	C / TBD	DSCP	Jan 2019	Jan 2020	2	164,000.00	Y		
1.20) TRACTOR WHEELED LOADER 5 CY BUCKET		2019	Unknown / Unknown	C / TBD	DSCP	Jan 2019	Jan 2020	2	185,000.00	Y		
1.21) TRC WH IND10-70		2017	Unknown / Unknown	C / TBD	DSCP	Mar 2018	Mar 2018	1	64,849.00	Y		
2) MISC. CONSTRUCTION												
2.1) ASPHALT RECYCLER		2017	VARIOUS / VARIOUS	MIPR	DLA	Oct 2017	Feb 2018	1	260,000.00	Y		
2.2) COLD FORMED STEEL FACTORY SYSTEMS		2019	UNKNOWN / UNKNOWN	C / TBD	DLA	Oct 2018	Oct 2018	4	450,000.00	Y		
2.3) CONCRETE MIXER		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	May 2018	61	24,278.00	Y		
2.4) CONCRETE SAW		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	May 2018	6	25,361.00	Y		
2.5) ECU 8T 35KW GENERATOR TRAILER MOUNT		2017	VARIOUS / VARIOUS	MIPR	DLA	Oct 2017	Feb 2018	2	105,212.00	Y		
2.5) ECU 8T 35KW GENERATOR TRAILER MOUNT		2018	UNKNOWN / UNKNOWN	MIPR	DLA	Jan 2018	May 2018	12	107,316.00	Y		
2.6) ECU 8T 35KW GENERATOR TRAILER MOUNT (RESERVE FORCES)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	May 2018	2	107,316.00	Y		
2.7) FLOODLIGHT SET ELECTRIC SELF-CONTAINED TRLR-MTD		2016	Caterpillar, Inc / Mossville, IL	C / FP	DSCP	Sep 2016	Jan 2017	4	13,491.00	Y		
2.7) FLOODLIGHT SET ELECTRIC SELF-CONTAINED TRLR-MTD		2019	Caterpillar, Inc / Mossville, IL	C / FP	DSCP	Oct 2018	Feb 2019	32	10,470.00	Y		
2.8) GEN 35KW AMMPS MEP 1060 SKID MTD DED		2018	Unknown / Unknown	MIPR	Army MEP	Jan 2018	May 2018	6	32,861.00	Y		
2.9) GEN 60KW 50/60HZ AMMPS NEW GENERATION MEP		2016	MEP / Ft. Belvoir, VA	MIPR	Army MEP	Mar 2016	Sep 2016	14	31,781.00	Y		
2.9) GEN 60KW 50/60HZ AMMPS NEW GENERATION MEP		2019	UNKNOWN / UNKNOWN	MIPR	Army MEP	Oct 2018	Oct 2018	35	50,995.00	Y		
2.11) GEN SET 30KW DIESEL ENGINE 30 KW MEP805B		2017	VARIOUS / VARIOUS	MIPR	Army MEP	Oct 2017	Feb 2018	4	35,246.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					Aggregated Items: Construction & Maint Equip				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.13) GENERATOR 60 KW MEP806B		2017	VARIOUS / VARIOUS	MIPR	Army MEP	Oct 2017	Oct 2018	1	44,328.00	Y		
2.14) GENERATOR SET 100KW MEP807A TACT QUIET DED SKID		2016	VARIOUS / VARIOUS	MIPR	Army MEP	Oct 2017	Mar 2018	2	91,000.00	Y		
2.15) GENERATOR SET 30KW AMMPS MEP 1060 SKID MTD DED		2019	Unknown / Unknown	MIPR	Army MEP	Jan 2019	Jan 2020	1	31,432.00	Y		
2.16) GENERATOR SET 60KW AMMPS MEP 1070 SKID		2017	VARIOIUS / VARIOUS	MIPR	Army MEP	Sep 2017	Mar 2018	125	50,000.00	Y		
2.16) GENERATOR SET 60KW AMMPS MEP 1070 SKID		2018	VARIOIUS / VARIOUS	MIPR	Army MEP	Apr 2018	Apr 2018	102	35,992.00	Y		
2.17) LUBE SKID		2018	Unknown / Unknown	MIPR	DSCP	Apr 2018	Jan 2019	5	121,000.00	Y		
2.18) MIXER CONCRETE 6 CUBIC METERS		2017	VARIOIUS / VARIOUS	MIPR	DLA	Sep 2017	Mar 2018	2	359,173.00	Y		
2.19) SWEEPER MAGNET SELF- PROPELLED TRACTOR MTD 8FT		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	May 2018	9	31,836.00	Y		
2.20) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED		2016	VARIOUS / VARIOUS	MIPR	DSCP	Oct 2017	Feb 2018	1	37,209.00	Y		
2.20) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED		2018	VARIOUS / VARIOUS	MIPR	DSCP	Feb 2018	Jun 2018	3	37,916.00	Y		
2.20) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED		2019	VARIOUS / VARIOUS	C / TBD	DSCP	Oct 2018	Feb 2019	1	38,916.00	Y		
3) CRANES												
3.1) CRANE HYD TRK MTD 40 TON (RESERVE FORCES)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Oct 2018	2	570,193.00	Y		
3.2) CRANE HYD TRK MTD 40 TON		2019	Unknown / Unknown	C / TBD	DLA	Dec 2018	Dec 2018	4	603,000.00	Y		
3.3) CRANE WHEEL MOUNTED SWING CAB 4X4 15-40 TON		2019	Unknown / Unknown	C / TBD	DLA	Dec 2018	Dec 2019	2	379,000.00	Y		
3.6) EXCAVATOR CRAWLER MOUNTED HYDRAULIC OPERATED NONSTANDARD		2018	Unknown / Unknown	MIPR	GSA	Apr 2018	Aug 2018	1	363,000.00	Y		
5) EXPEDITIONARY MATERIAL HANDLING EQUIPMENT												
5.1) FORKLIFT 11K DED PRT ROUGH TERRAIN (182011)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	3	190,000.00	Y		
5.2) FORKLIFT 11K DED SRT		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	2	50,000.00	Y		
5.3) FORKLIFT 15K DED SRT		2018	Unknow / Unknown	MIPR	DLA	Jan 2018	Jun 2018	2	88,000.00	Y		
5.4) FORKLIFT 6K DED PRT		2019	Unknown / Unknown	C / TBD	DLA	Jan 2019	Jan 2020	4	45,000.00	Y		
5.6) TRFK D 53K PRT (182051)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	3	886,160.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					Aggregated Items: Construction & Maint Equip				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.7) Truck, Forklift, 10K DED (134010)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	4	126,988.00	Y		
5.8) TRFK D 53LB PRT		2019	Unknown / Unknown	C / TBD	DLA	Dec 2018	Dec 2018	1	535,500.00	Y		
5.9) TRFK D 12LB PRT		2019	Unknown / Unknown	C / TBD	DLA	Dec 2018	Dec 2019	1	178,068.00	Y		
5.10) Truck, Forklift, 12K RT (182012)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	22	185,000.00	Y		
5.11) TRFK D 20LB PRT		2019	Unknown / Unknown	C / TBD	DLA	Jan 2019	Jan 2020	7	290,700.00	Y		
5.14) Truck, Forklift, 25K DED (134025)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	2	130,000.00	Y		
5.15) Truck, Forklift, 6K DED (133006)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	4	38,160.00	Y		
5.16) Truck, Forklift, 6K LPG (130506)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	3	31,081.00	Y		
5.17) Truck, Forklift, 7-11K MMV (182011)		2018	Unknown / Unknown	MIPR	DLA	Jan 2018	Jun 2018	40	156,109.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6027 / Fire Fighting 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: 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>)	14.705	14.199	4.845	17.189	0.770	17.959	21.142	14.633	14.677	14.975	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14.705	14.199	4.845	17.189	0.770	17.959	21.142	14.633	14.677	14.975	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14.705	14.199	4.845	17.189	0.770	17.959	21.142	14.633	14.677	14.975	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 budget line item funds procurement of aircraft fire/rescue trucks and structural/brush fire trucks. The aircraft fire/rescue trucks are used at Naval Air Stations for combating aircraft fires and rescue of aircraft crews. The trucks range in size from a small 11,000 pound Gross Vehicle Weight Rating (GVWR) pickup with utility body and twin engine fire fighting unit to the 68,000 pound GVWR crash truck which carries 3,000 gallons of water and 200 gallons of AFFF (foam). The structural/brush fire trucks are used at Naval activities in the same manner as municipal fire trucks in fighting structural and grass fires. The Navy's investment in ships, aircraft, facilities, personnel and equipment mandates having adequate fire protection. The requested funds are needed to comply with current National Fire Protection Association (NFPA) standards, sustain the Navy Firefighting Fleet and maintain an effective Firefighting Fleet Modernization Program consistent with findings identified in the DoD IG Report: D-2003-121 DoD Fire and Emergency Services Program. The Firefighting Fleet requires annual investments to ensure emergency response vehicles are within specified service life for safety, technological improvements, and maintenance sustainability. Highly reliable trucks are required as the emergency vehicles are key to success. Some older crash response trucks do not meet roll safety criteria, and require continued replacement to ensure safe working limits. As firefighter staffing is reduced and the all-hazards emergency response mission expands, the Navy's firefighting apparatus must evolve to provide additional capabilities for emergency medical services, rescue, confined space, hazardous materials, etc. The ability to save lives and protect property is essential in supporting the Navy's mission. The role of these trucks is to provide the Navy's response to structural fire emergencies, aircraft rescue fire fighting crashes, emergency medical services incidents, all hazards public safety, and emergency response to terrorism incidents, and weapons of mass destruction.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6027 / Fire Fighting 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: 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-40a	Fire Fighting Equipment	P-5a			- / 14.705	- / 14.199	- / 4.845	- / 17.189	- / 0.770	- / 17.959
P-40	Total Gross/Weapon System Cost				- / 14.705	- / 14.199	- / 4.845	- / 17.189	- / 0.770	- / 17.959
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The funds requested in FY 2019 will provide for recapitalization requirements to support fielding a fleet of equipment within useful life expectancy. FY19 funding increase will replace aged fire-fighting equipment that have exceeded its service life standards at various locations. OCO: Included in this request is FY 2019 Overseas Contingency Operations (OCO) funding for Operation Enduring Freedom - Horn of Africa (OEF-H) in the amount of \$0.770M for Camp Lemonnier, Djibouti. Funds requested are for replacement fire fighting vehicles (beyond serviceable life) at core installations that provide key logistics services supporting ship and aircraft movements and command and control services for the warfighter in support of Overseas Contingency Operations. The life expectancy of firefighting equipment used in OCO locations is 10 years given the harsh expeditionary type conditions, reduced maintenance support and the lack of proper fire station facilities. The trucks being replaced have met their life expectancy. HAZARDOUS RESPONSE VEHICLE - SMALL, QTY=2, \$0.507M TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB, QTY=1, \$0.261M										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment								Aggregated Items Title: Fire Fighting Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) AIRCRAFT FIRE/RESCUE																				
1.1) HAZARDOUS RESPONSE VEHICLE - HEAVY ^(†)	A		630,500.00	4	2.522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM ^(†)	A		454,500.00	4	1.818	463,683.00	1	0.464	470,000.00	3	1.410	474,295.00	1	0.474	-	-	-	474,295.00	1	0.474
1.3) HAZARDOUS RESPONSE VEHICLE - SMALL ^(†)	A		238,000.00	1	0.238	-	-	-	-	-	-	-	-	0.000	254,250.00	2	0.509	254,250.00	2	0.509
1.4) TRUCK A/ C CRASH FIRE FIGHTING RESCUE 1500 GALLON ^(†)	A		-	-	-	560,941.00	4	2.244	572,000.00	1	0.572	584,069.00	11	6.425	-	-	-	584,069.00	11	6.425
1.5) TRUCK A/ C CRASH FIRE FIGHTING RESCUE 3000 GALLON ^(†)	A		695,000.00	2	1.390	-	-	-	721,000.00	1	0.721	721,492.00	4	2.886	-	-	-	721,492.00	4	2.886
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB ^(†)	A		248,000.00	1	0.248	252,702.00	2	0.505	-	-	-	260,911.00	1	0.261	260,911.00	1	0.261	260,911.00	2	0.522
1.7) TRUCK TWIN AGENT UNIT FOR FOAM AND WATER ^(†)	A		-	-	-	368,952.00	3	1.107	-	-	-	393,494.00	1	0.393	-	-	-	393,494.00	1	0.393
Subtotal: 1) AIRCRAFT FIRE/ RESCUE			-	-	6.216	-	-	4.320	-	-	2.703	-	-	10.439	-	-	0.770	-	-	11.209
2) BRUSH/STRUCTURAL																				
2.1) BRUSH/GRASS FIRE FIGHTING 250 GPM 500 GALLON ^(†)	A		587,750.00	4	2.351	599,521.00	4	2.398	-	-	-	628,941.00	2	1.258	-	-	-	628,941.00	2	1.258
2.2) TRUCK FIRE FIGHTING AERIAL 100 FT LADDER RIGHT HAND DRIVE ^(†)	A		1,088K	1	1.088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) TRUCK FIRE FIGHTING AERIAL 75 FT LADDER ^(†)	A		730,000.00	2	1.460	741,899.00	4	2.968	-	-	-	770,473.00	1	0.770	-	-	-	770,473.00	1	0.770
2.4) TRUCK FIRE FIGHTING BRUSH/ GRASS 50 GPM 200 GALLON ^(†)	A		-	-	-	198,447.00	3	0.595	-	-	-	205,718.00	1	0.206	-	-	-	205,718.00	1	0.206

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment									Aggregated Items Title: Fire Fighting Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM ^(†)	A		366,000.00	4	1.464	373,279.00	3	1.120	381,000.00	1	0.381	384,456.00	9	3.460	-	-	-	384,456.00	9	3.460
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER ^(†)	A		333,666.67	3	1.001	340,232.00	3	1.021	345,034.00	1	0.345	351,915.00	3	1.056	-	-	-	351,915.00	3	1.056
2.7) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM RIGHT HAND DRIVE ^(†)	A		375,000.00	3	1.125	382,492.00	3	1.147	392,966.00	2	0.786	-	-	-	-	-	-	-	-	-
2.8) TRUCK WATER TANKER ^(†)	A		-	-	-	630,000.00	1	0.630	630,000.00	1	0.630	-	-	-	-	-	-	-	-	-
Subtotal: 2) BRUSH/STRUCTURAL			-	-	8.489	-	-	9.879	-	-	2.142	-	-	6.750	-	-	-	-	-	6.750
Total			-	-	14.705	-	-	14.199	-	-	4.845	-	-	17.189	-	-	0.770	-	-	17.959

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

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment					Aggregated Items: Fire Fighting Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) AIRCRAFT FIRE/RESCUE												
1.1) HAZARDOUS RESPONSE VEHICLE - HEAVY		2016	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Feb 2019	4	630,513.00	Y		
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM		2016	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Jul 2017	Apr 2018	4	454,591.00	Y		
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM		2017	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Dec 2018	1	463,683.00	Y		
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM		2018	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Dec 2018	3	470,000.00	Y		
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM		2019	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2019	Mar 2019	1	474,295.00	Y		
1.3) HAZARDOUS RESPONSE VEHICLE - SMALL		2016	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Sep 2016	Sep 2017	1	238,362.00	Y		
1.4) TRUCK A/C CRASH FIRE FIGHTING RESCUE 1500 GALLON		2017	E-One, Inc DBA / Ocala, FL	MIPR	DSCP	Sep 2017	Nov 2018	4	560,941.00	Y		
1.4) TRUCK A/C CRASH FIRE FIGHTING RESCUE 1500 GALLON	✓	2018	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	May 2019	1	572,000.00	Y		
1.4) TRUCK A/C CRASH FIRE FIGHTING RESCUE 1500 GALLON		2019	UNKNOWN / UNKNOWN	MIPR	DSCP	Oct 2018	Oct 2018	11	584,069.00	Y		
1.5) TRUCK A/C CRASH FIRE FIGHTING RESCUE 3000 GALLON		2016	OSHKOSH / Oshkosh, WI	MIPR	DSCP	Dec 2015	Nov 2016	2	694,842.00	Y		
1.5) TRUCK A/C CRASH FIRE FIGHTING RESCUE 3000 GALLON	✓	2018	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Feb 2019	1	721,000.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB		2016	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Jan 2019	1	247,747.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB		2017	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Jan 2019	2	252,702.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB		2019	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2019	Mar 2019	1	260,911.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB	✓	2019	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2019	Mar 2019	1	260,911.00	Y		
1.7) TRUCK TWIN AGENT UNIT FOR FOAM AND WATER		2017	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Mar 2019	3	368,952.00	Y		
1.7) TRUCK TWIN AGENT UNIT FOR FOAM AND WATER		2019	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2019	Mar 2019	1	393,494.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment						Aggregated Items: Fire Fighting Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2) BRUSH/STRUCTURAL												
2.1) BRUSH/GRASS FIRE FIGHTING 250 GPM 500 GALLON		2016	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Mar 2019	4	587,766.00	Y		
2.1) BRUSH/GRASS FIRE FIGHTING 250 GPM 500 GALLON		2017	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Mar 2019	4	599,521.00	Y		
2.1) BRUSH/GRASS FIRE FIGHTING 250 GPM 500 GALLON		2019	UNKNOWN / UNKNOWN	C / TBD	GSA	Mar 2019	Mar 2020	2	628,941.00	Y		
2.2) TRUCK FIRE FIGHTING AERIAL 100 FT LADDER RIGHT HAND DRIVE		2016	UNKNOWN / UNKNOWN	C / FP	FEAD Yokosuka	Mar 2018	Mar 2019	1	1,088K	Y		
2.3) TRUCK FIRE FIGHTING AERIAL 75 FT LADDER		2016	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Sep 2017	Sep 2018	2	729,803.00	Y		
2.3) TRUCK FIRE FIGHTING AERIAL 75 FT LADDER		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Sep 2017	Sep 2018	4	741,899.00	Y		
2.3) TRUCK FIRE FIGHTING AERIAL 75 FT LADDER		2019	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Oct 2018	Oct 2018	1	770,473.00	Y		
2.4) TRUCK FIRE FIGHTING BRUSH/GRASS 50 GPM 200 GALLON		2017	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2018	Sep 2018	3	198,447.00	Y		
2.4) TRUCK FIRE FIGHTING BRUSH/GRASS 50 GPM 200 GALLON		2019	UNKNOWN / UNKNOWN	MIPR	GSA	Oct 2018	Oct 2018	1	205,718.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM		2016	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	May 2016	May 2017	4	365,960.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Sep 2017	Sep 2018	3	373,279.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM	✓	2018	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Mar 2018	Mar 2019	1	381,000.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM		2019	Pierce Mfg, Inc / Appleton, WI	C / TBD	DSCP	Oct 2018	Oct 2018	9	384,456.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2016	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Mar 2019	3	333,561.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2017	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Mar 2019	3	340,232.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2018	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Mar 2019	1	345,034.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2019	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2019	Mar 2019	3	351,915.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment						Aggregated Items: Fire Fighting Equipment			
Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.7) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM RIGHT HAND DRIVE		2016	Pierce Mfg, Inc / Appleton, WI	C / FP	FEAD Yokosuka	Jun 2016	Jun 2017	3	374,993.00	Y		
2.7) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM RIGHT HAND DRIVE		2017	Pierce Mfg, Inc / Appleton, WI	C / FP	FEAD Yokosuka	Sep 2017	Sep 2018	3	382,492.00	Y		
2.7) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM RIGHT HAND DRIVE		2018	Unknown / Unknown	C / FP	FEAD Yokosuka	Mar 2018	Mar 2019	2	392,966.00	N		
2.8) TRUCK WATER TANKER	✓	2017	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Mar 2019	1	630,000.00	Y		
2.8) TRUCK WATER TANKER	✓	2018	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2018	Mar 2019	1	630,000.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6028 / Tactical Vehicles					
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>)	3.510	13.824	22.035	19.916	7.298	27.214	20.432	21.413	21.466	21.913	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.510	13.824	22.035	19.916	7.298	27.214	20.432	21.413	21.466	21.913	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.510	13.824	22.035	19.916	7.298	27.214	20.432	21.413	21.466	21.913	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 budget line item funds procurement of light and medium duty tactical equipment used primarily by the Naval Expeditionary Combat Command (NECC), Maritime Prepositioning Force (MPF), Naval Beach Group (NBG), and other special operating units. This line also includes Force Protection requirements funding for Tactical Vehicles. Light duty tactical vehicles (HMMWVs/LSSVs/JLTVs) are used by NECC, MPF, NBG, and special operating units for the movement of personnel and equipment. Medium tactical(MTVR/MRAPs) trucks are required for rapid deployment of containerized table of allowance material and have air transport, water fording, and enhanced combat mobility capability. Medium tactical cargo trucks are used for material/ equipment movement and delivery. Medium tactical dump trucks are used to support combat construction of airfields, landing zones, road battle damage repair and rapid runway repair. Force Protection funds are used to modify both light and medium tactical vehicles with the necessary upgrades to carry out both primary and secondary missions in a combat environment. Planned modifications include making baseline MTVR models Ready To Accept Armor (RTAA) and integrating vehicles with installations kits for Command, Control, Computers, Communications, Intelligence, Surveillance, and Reconnaissance (C4ISR) equipment and Counter RCIED (Radio-Controlled Improvised Explosive Device) Electronic Warfare systems. This program includes funds for the procurement of HMMWVs to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facility, Atlantic (SWFLANT) in Kings Bay, GA and the Strategic Weapons Facility, Pacific (SWFPAC) in Bangor, WA. Equipment is used in support of Strategic Systems Programs (SSP) mission of securing the Limited Area and provides for security vehicles to replace existing (aging) vehicles used in roving patrols of the Limited Area and to support TRIDENT II (D5) missile movement convoys. This program includes funds for the procurement of HMMWVs to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facility, Atlantic (SWFLANT) in Kings Bay, GA and the Strategic Weapons Facility, Pacific (SWFPAC) in Bangor, WA. Equipment is used in support of Strategic Systems Programs (SSP) mission of securing the Limited Area and provides for security vehicles to replace existing (aging) vehicles used in roving patrols of the Limited Area and to support TRIDENT II (D5) missile movement convoys.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6028 / Tactical Vehicles				
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-40a	Tactical Vehicles	P-5a			- / 3.510	- / 13.824	- / 22.035	- / 19.916	- / 7.298	- / 27.214
P-40	Total Gross/Weapon System Cost				- / 3.510	- / 13.824	- / 22.035	- / 19.916	- / 7.298	- / 27.214
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The funds requested in FY19 will provide for, but not limited to: - Joint Light Tactical Vehicle (JLTV) for US Navy SEAL combat operations in forward deployed contingency locations. These materiel assets support the Seals core mission requirements and are essential to the readiness and battlefield effectiveness of these special forces in winning the current fight against ISIS and other extremist elements. - LSSVs which have surpassed their life expectancy and will be deployed to the Expeditionary Medical Forces, Explosive Ordnance Disposal Units, and Coastal Riverine Units. LSSV's are at end of service life and are required to be recapitalized in FY19 to meet both Expeditionary Medical rotation schedule and Combat Command mission requirements. The Expeditionary Medical Facility (EMF) Tables of Allowance are forward deployed and only be accessed once every 5 years. The LSSV procurements are aligned to meet the unit rotation schedule. Force Protection: Ready to Accept Armor (RTAA): Funding is for the efforts involved in providing RTAA modifications to existing Medium Tactical Vehicle Replacements (MTVR's), which will be used in support of the EOD Expeditionary Mine Counter Measures (Ex-MCM) mission. C4ISR: Funding will provide for integration of installation kits for C4ISR and CREW equipment into multiple tactical vehicle platforms. Outfitting of this gear is a lesson learned from OIF/OEF when the Expeditionary Forces lacked means to communicate across vehicles within the same convoy, capability to identify friendly forces, and to identify and defeat Improvised Explosive Devices (IEDs). Lacking these capabilities created unnecessary life-safety risks. OCO: Included in this request is FY 2019 Overseas Contingency Operations (OCO) funding for Operation Enduring Freedom - Afghanistan in the amount of \$7.300M. These funds will continue the Engineering Change Proposal (ECP) installation effort of Seat Survivability Upgrade (SSU) and EGRESS ECP kits, which is included in the PB18 request. Both ECPs are life safety issues from lessons learned from OIF/OEF. The ECP Kits were procured in FY14 with OCO and were long lead items. Delivery for these items started in FY2017. The FY18 OCO request provides for installation of 57 Egress kits and FY19 request will continue installation efforts of an additional 100 Egress kits and 58 SSU kits. The MRAP ECPs for Egress and Seat Survivability Upgrades were designed specifically to increase MRAP survivor rates in today's urban warfare environment of IEDs. Funding the installation of both the Egress and SSU kits on each asset simultaneously creates a production line efficiency translating to unit cost efficiency. In addition to the ECP kits, \$0.668M is included for the procurement and installation of 33 Gunner Protection Kits (GPKs). 167 or the 200 required GPKs were procured and installed during MRAP reset efforts, and remaining 33 kits in FY 2019 will complete the requirement. Including the GPKs while the vehicles are going through the installation assembly line for the ECPs provides a cost avoidance of vehicle transportation costs, production set up and tear down, as well as contractual efforts of acquisition professionals.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6028 / Tactical Vehicles								Aggregated Items Title: Tactical Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Light Trucks																				
1.1) JOINT LIGHT TACTICAL VEHICLE (JLTV) ^{(1)(†)}	A		-	-	-	-	-	-	420,000.00	3	1.260	428,400.00	8	3.427	-	-	-	428,400.00	8	3.427
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS ^(†)	A		50,000.00	25	1.250	55,214.00	64	3.534	51,000.00	32	1.632	52,200.00	52	2.714	-	-	-	52,200.00	52	2.714
1.3) LSSV MAINTENANCE UTILITY CREWCAB 4X4 ^(†)	A		-	-	-	73,275.00	2	0.147	-	-	-	75,000.00	1	0.075	-	-	-	75,000.00	1	0.075
1.4) LSSV TRUCK LITTER CARRIER 4X4 TWO DOOR DIESEL ^(†)	A		-	-	-	152,000.00	10	1.520	166,464.00	10	1.665	-	-	-	-	-	-	-	-	-
1.5) TRUCK, UP-ARMORED HMMWV, 4X4 ^(†)	A		-	-	-	-	-	-	-	-	-	194,500.00	2	0.389	-	-	-	194,500.00	2	0.389
Subtotal: 1) Light Trucks			-	-	1.250	-	-	5.201	-	-	4.557	-	-	6.605	-	-	-	-	-	6.605
2) ILS Support Cost																				
2.1) ILS Support Cost	A		-	-	0.612	-	-	0.025	-	-	0.218	-	-	-	-	-	-	-	-	-
Subtotal: 2) ILS Support Cost			-	-	0.612	-	-	0.025	-	-	0.218	-	-	-	-	-	-	-	-	-
3) Force Protection																				
3.1) Ready to Accept Armor (RTAA) modifications	A		-	-	0.499	-	-	-	-	-	4.937	-	-	4.258	-	-	-	-	-	4.258
3.2) Modifications to integrate communications equipment	A		-	-	1.149	-	-	8.148	-	-	9.987	-	-	7.565	-	-	-	-	-	7.565
3.3) Modifications to integrate communications equipment (RESERVE FORCES)	A		-	-	-	-	-	0.450	-	-	-	-	-	1.488	-	-	-	-	-	1.488
3.4) MRAP ECP	A		-	-	-	-	-	-	-	-	2.336	-	-	0.000	-	-	7.298	-	-	7.298
Subtotal: 3) Force Protection			-	-	1.648	-	-	8.598	-	-	17.260	-	-	13.311	-	-	7.298	-	-	20.609
Total			-	-	3.510	-	-	13.824	-	-	22.035	-	-	19.916	-	-	7.298	-	-	27.214

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

^(†) indicates the presence of a P-5a

Footnotes:

⁽¹⁾ JLTV unit cost coordinated with the Joint Program Office and latest contract estimated pricing. Navy's JTLV is a different configuration than USMC which can result in difference in unit cost.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6028 / Tactical Vehicles					Aggregated Items: Tactical Vehicles			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Light Trucks												
1.1) JOINT LIGHT TACTICAL VEHICLE (JLTV) ⁽¹⁾		2018	UNKNOWN / Unknown	C / TBD	TBD	Aug 2018	Aug 2018	3	420,000.00	Y		
1.1) JOINT LIGHT TACTICAL VEHICLE (JLTV) ⁽¹⁾		2019	UNKNOWN / Unknown	C / TBD	TBD	Oct 2018	Oct 2018	8	428,400.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2016	GSA Federal Supply / Norfolk, VA	MIPR	GSA	May 2016	Aug 2016	25	50,000.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2017	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2017	Jan 2018	64	55,214.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2018	Unknown / Unknown	MIPR	GSA	Jan 2018	Apr 2018	32	51,000.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2019	Unknown / Unknown	MIPR	GSA	Oct 2018	Oct 2018	52	52,200.00	Y		
1.3) LSSV MAINTENANCE UTILITY CREWCAB 4X4		2017	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Jan 2017	May 2017	2	73,275.00	Y		
1.4) LSSV TRUCK LITTER CARRIER 4X4 TWO DOOR DIESEL		2017	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2017	Feb 2018	10	152,000.00	Y		
1.4) LSSV TRUCK LITTER CARRIER 4X4 TWO DOOR DIESEL		2018	Unknown / Unknown	C / TBD	GSA	Jan 2018	May 2018	10	166,464.00	Y		
1.5) TRUCK, UP-ARMORED HMMWV, 4X4		2019	GSA / GSA	MIPR	GSA	Nov 2018	Aug 2019	2	194,500.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6033 / Amphibious 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: 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>)	37.779	7.676	12.162	7.400	0.000	7.400	0.000	0.000	0.000	12.046	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	37.779	7.676	12.162	7.400	0.000	7.400	0.000	0.000	0.000	12.046	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	37.779	7.676	12.162	7.400	0.000	7.400	0.000	0.000	0.000	12.046	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 budget line item funds the procurement of equipment to support Navy-Marine Corps amphibious operations, Logistics Over the Shore, and Joint Logistics Over the Shore operations. This provides the ability to execute the ship to shore transfer of vehicles, dry cargo, and liquid cargo, delivered over bare beaches, as well as through improved and semi-improved port facilities. This program is a critical component that enables the Maritime Prepositioning Force (MPF) concept. It is designed and intended to interface with MPF vessels during initial combat operations (Assault Echelon and immediate sustainment of the AE force) and then with Roll-On/Roll-Off, container, dry cargo, and liquid cargo ships to provide war material to the Assault Follow-On Echelon (AFOE). The equipment is employed by the Naval Support Element (Naval Beach Groups) and the Amphibious Ready Group-Marine Expeditionary Unit (ARG/MEU) team. The Improved Navy Lighterage System (INLS) consists of Causeway Ferries (CF), Warping Tugs (WT), a Roll-on/Roll-off Discharge Facility (RRDF), and a Floating Causeway (FC) pier. All of these systems work in concert to deliver critical war material from MPF and AFOE ships, across a bare beach, and into the hands of warfighters. The INLS achieved IOC in FY06 and FOC in FY11, requiring sustainment efforts to maintain availability for operation in the face of aging components and technical obsolescence of the various control systems. The Sealift Support Program Office is providing lifecycle support to the INLS program as well as other specialized equipment and vehicles that directly participate in and contribute to amphibious operations. Specific to this lifecycle support mission, an improvement is being made to the waterjet system to extend the lifespan of critical components that otherwise would render the craft non-mission capable if the component were to fail, necessitating a significant and time-consuming depot-level repair. [P5 / LARC REPLACEMENT]: Amphibious Surf Capable Vehicle (ASCV) has been approved as an ACAT IV (T) program and is still in Development at the Milestone A Decision. Unit price info is based on parametric estimates as of April 2017 and will be refined as the development matures through the RDTE(N) stages.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6033 / Amphibious 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: 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-5	1 / Amphibious Equipment	P-5a, P-21			- / 37.779	- / 7.676	- / 12.162	- / 7.400	- / 0.000	- / 7.400
P-40	Total Gross/Weapon System Cost				- / 37.779	- / 7.676	- / 12.162	- / 7.400	- / 0.000	- / 7.400
*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 requests funds for INLS Waterjet modifications that upgrade primary propulsion components that are failing at an unacceptable rate. The INLS Waterjet modification will increase mean time between overhauls from 12 months to 60 months and extend the life of the craft.

The QTY 6 craft are the final craft requiring the Water Quality System Upgrade and is critical to meet the delivery deadlines of ready-to-deploy craft for loading onto the MPF ships as part of the MPF Maintenance Cycle (MMC).

Failure to meet this timeline will result in the INLS craft not receiving this critical upgrade for up to three additional years, leading to significantly increased risk to the ability to execute tasking in support of COCOMs.

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6033 / Amphibious Equipment						Item Number / Title [DODIC]: 1 / Amphibious Equipment						
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				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				37.779		7.676		12.162		7.400		0.000		7.400				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				37.779		7.676		12.162		7.400		0.000		7.400				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				37.779		7.676		12.162		7.400		0.000		7.400				
(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>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - OTHER AMPHIB SPECIALIZED EQUIPMENT Cost																		
Recurring Cost																		
1.1.3) INLS MODULES ^(†) (1)	957,684.21	38	36.392	959,500.00	8	7.676	1,010K	12	12.126	1,233K	6	7.400	-	-	-	1,233K	6	7.400
1.1.4) INLS ACQUISITION LOGISTICS COST	-	-	1.387	-	-	-	-	-	0.036	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	37.779	-	-	7.676	-	-	12.162	-	-	7.400	-	-	-	-	-	7.400
Subtotal: Hardware - OTHER AMPHIB SPECIALIZED EQUIPMENT Cost	-	-	37.779	-	-	7.676	-	-	12.162	-	-	7.400	-	-	-	-	-	7.400
Gross/Weapon System Cost	-	-	37.779	-	-	7.676	-	-	12.162	-	-	7.400	-	-	0.000	-	-	7.400
^(†) indicates the presence of a P-5a																		
Footnotes:																		
⁽¹⁾ The cost growth from FY18 to FY19 is due to 3 factors: (1)The final 6 craft will be modified at an alternate location to with a higher locality cost (Coronado, CA), (2)these final craft were the LRIP craft and are different configuration which will require some engineering effort, (3) the current contract will reach the end of the period of performance in FY18, yielding the requirement to re-compete the contract in FY19.																		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6033 / Amphibious Equipment				Item Number / Title [DODIC]: 1 / Amphibious Equipment				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.3) INLS MODULES ^(†)		2014	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Mar 2014	Sep 2014	6	913,333.33	Y		
1.1.3) INLS MODULES ^(†)		2015	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Mar 2015	Sep 2015	8	936,000.00	Y		
1.1.3) INLS MODULES ^(†)		2016	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Feb 2016	Aug 2016	12	1,027K	Y		
1.1.3) INLS MODULES ^(†)		2017	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Apr 2017	Oct 2017	8	959,500.00	Y		
1.1.3) INLS MODULES ^(†)		2018	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Mar 2018	Sep 2018	12	1,010K	Y		
1.1.3) INLS MODULES ^(†)		2019 ⁽²⁾	Unknown / Unknown	C / TBD	NAVFAC	Mar 2019	Mar 2019	6	1,233K	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽²⁾ Current contract Period of Performance ends in 2018. Contract will have to be re-competed for FY2019.

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018															
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1										P-1 Line Item Number / Title: 6033 / Amphibious Equipment										Item Number / Title [DODIC]: 1 / Amphibious Equipment															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014										Fiscal Year 2015													BALANCE					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
1.1.3) INLS MODULES ⁽¹⁾																																			
Prior Years Deliveries: 12																																			
	1	2014	NAVY	6	0	6						A -	-	-	-	-	-	5	1														0		
	1	2015	NAVY	8	0	8																					A -	-	-	-	-	-	-	2	6
	1	2016	NAVY	12	0	12																											12		
	1	2017	NAVY	8	0	8																											8		
	1	2018	NAVY	12	0	12																											12		
	2	2019	NAVY	6	0	6																											6		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018																	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1									P-1 Line Item Number / Title: 6033 / Amphibious Equipment										Item Number / Title [DODIC]: 1 / Amphibious Equipment																	
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2016										Fiscal Year 2017										BALANCE									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017																			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP					
1.1.3) INLS MODULES ⁽¹⁾																																				
Prior Years Deliveries: 12																																				
	1	2014	NAVY	6	6	0																											0			
	1	2015	NAVY	8	2	6	2	2	2																									0		
	1	2016	NAVY	12	0	12						A -	-	-	-	-	-	2	2	2	2	2	2								0					
	1	2017	NAVY	8	0	8																A -	-	-	-	-	-	-								8
	1	2018	NAVY	12	0	12																											12			
	2	2019	NAVY	6	0	6																											6			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																														
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1										P-1 Line Item Number / Title: 6033 / Amphibious Equipment										Item Number / Title [DODIC]: 1 / Amphibious Equipment																														
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2018										Fiscal Year 2019													BALANCE																				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019																																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP																			
1.1.3) INLS MODULES ⁽¹⁾																																																		
Prior Years Deliveries: 12																																																		
	1	2014	NAVY	6	6	0																											0																	
	1	2015	NAVY	8	8	0																											0																	
	1	2016	NAVY	12	12	0																											0																	
	1	2017	NAVY	8	0	8																											2	2	2	2														0
	1	2018	NAVY	12	0	12																																					A	-	-	-	-	-	2	2
	2	2019	NAVY	6	0	6															A2			2	2					0																				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																				

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Exhibit P-21, Production Schedule: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1					P-1 Line Item Number / Title: 6033 / Amphibious Equipment				Item Number / Title [DODIC]: 1 / Amphibious Equipment			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Wartsila Defense, Inc - Houston, TX				0	0	6	6	0	0	0	0
2	Unknown - Unknown				0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment	P-1 Line Item Number / Title: 6058 / Pollution Control 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: 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>)	3.018	2.321	2.748	2.713	0.000	2.713	2.633	2.677	2.726	2.784	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.018	2.321	2.748	2.713	0.000	2.713	2.633	2.677	2.726	2.784	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.018	2.321	2.748	2.713	0.000	2.713	2.633	2.677	2.726	2.784	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 Navy Ashore Pollution Control Equipment program funds hazardous substance spill containment and recovery systems.

Funding requirements for the Navy's oil spill program include procurement of oil spill containment booms and related deployment equipment. After initial containment with boom, shore activities can efficiently collect spilled oil with vacuum trucks. This equipment will enable the Navy to meet the requirements established by the EPA in the National Contingency Plan which requires rapid and effective response to oil spills. The revised National Spill Contingency Plan mandates that the DOD and the Navy assume responsibility for their own oil and hazardous substance spills. These broad responsibilities require the Navy to maintain sufficient spill response equipment for the Navy activities worldwide, such as oil spill containment systems and recovery systems. The severe oil spills in Alaska, California and the Gulf of Mexico have increased the public's sensitivity to releases of oil into the environment.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment					P-1 Line Item Number / Title: 6058 / Pollution Control 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: 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-40a	Pollution Control Equipment	P-5a			- / 3.018	- / 2.321	- / 2.748	- / 2.713	- / -	- / 2.713
P-40	Total Gross/Weapon System Cost				- / 3.018	- / 2.321	- / 2.748	- / 2.713	- / 0.000	- / 2.713
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
Additional procurement of shore based equipment in FY19 is required to improve mission readiness at Naval Installations. Without additional procurement, there is increased maintenance costs to extend equipment service life and readiness is impacted during increased maintenance cycle times.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6058 / Pollution Control Equipment							Aggregated Items Title: Pollution Control Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) POLLUTION CONTROL EQUIPMENT																				
1.1) RESPONSE BOOM ^(†)	A		11,128.21	117	1.302	11,381.00	95	1.081	11,656.57	99	1.154	11,868.69	99	1.175	-	-	-	11,868.69	99	1.175
1.2) PERMANENT BOOM ^(†)	A		20,088.89	45	0.904	20,566.67	30	0.617	21,031.25	32	0.673	21,424.24	33	0.707	-	-	-	21,424.24	33	0.707
1.3) BOOM SUPPORT EQUIPMENT ^(†)	A		17,125.00	24	0.411	17,526.00	18	0.315	17,954.55	22	0.395	18,272.73	22	0.402	-	-	-	18,272.73	22	0.402
1.4) VACUUM TRUCK ^(†)	A		100,250.00	4	0.401	102,500.00	3	0.308	105,200.00	5	0.526	107,348.60	4	0.429	-	-	-	107,348.60	4	0.429
Subtotal: 1) POLLUTION CONTROL EQUIPMENT			-	-	3.018	-	-	2.321	-	-	2.748	-	-	2.713	-	-	-	-	-	2.713
Total			-	-	3.018	-	-	2.321	-	-	2.748	-	-	2.713	-	-	-	-	-	2.713

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

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6058 / Pollution Control Equipment					Aggregated Items: Pollution Control Equipment				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) POLLUTION CONTROL EQUIPMENT												
1.1) RESPONSE BOOM		2016	DESMI-AFTI / Ocharad Park, NY	C / FP	FISC	Jun 2016	Aug 2016	117	11,128.21	Y		
1.1) RESPONSE BOOM		2017	American Pollution Control Corp. / New Iberia, LA	C / FP	FISC	Jan 2017	Mar 2017	95	11,381.00	Y		
1.1) RESPONSE BOOM		2018	Unknown / Unknown	C / FP	FISC	Mar 2018	May 2018	99	11,656.57	Y		
1.1) RESPONSE BOOM		2019	Unknown / Unknown	C / FP	FISC	Mar 2019	May 2019	99	11,868.69	Y		
1.2) PERMANENT BOOM		2016	AmericanPollutionControlCorp / New Iberia, LA	C / FP	FISC	Feb 2016	Apr 2016	45	20,086.96	Y		
1.2) PERMANENT BOOM		2017	DESMI-AFTI / Ocharad Park, NY	C / FP	FISC	Mar 2017	Jun 2017	30	20,566.67	Y		
1.2) PERMANENT BOOM		2018	Unknown / Unknown	C / FP	FISC	Mar 2018	Jun 2018	32	21,031.25	Y		
1.2) PERMANENT BOOM		2019	Unknown / Unknown	C / FP	FISC	Mar 2019	Jun 2019	33	21,424.24	Y		
1.3) BOOM SUPPORT EQUIPMENT		2016	American Marine Inc. / Cocoa, FL	C / FP	FISC	Mar 2016	May 2016	24	17,125.00	Y		
1.3) BOOM SUPPORT EQUIPMENT		2017	DESMI-AFTI, Inc. / Orchard Park, NY	C / FP	FISC	Mar 2017	Jun 2017	18	17,526.00	Y		
1.3) BOOM SUPPORT EQUIPMENT		2018	Unknown / Unknown	C / FP	FISC	Mar 2018	Jun 2018	22	17,954.55	Y		
1.3) BOOM SUPPORT EQUIPMENT		2019	Unknown / Unknown	C / FP	FISC	Mar 2019	Jun 2019	22	18,272.73	Y		
1.4) VACUUM TRUCK		2016	Walker Group Holdings, LLC / New Lisbon, WI	C / FP	GSA	Jun 2016	Dec 2016	4	100,350.00	Y		
1.4) VACUUM TRUCK		2017	Unknown / Unknown	C / FP	GSA	Feb 2018	Aug 2019	3	102,500.00	Y		
1.4) VACUUM TRUCK		2018	Unknown / Unknown	C / FP	GSA	Sep 2018	Mar 2020	5	105,200.00	Y		
1.4) VACUUM TRUCK		2019	Unknown / Unknown	C / FP	GSA	Jun 2019	Dec 2020	4	107,348.60	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6060 / Items under \$5 million					
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>)	10.007	8.501	18.084	35.540	0.000	35.540	34.175	30.641	32.513	34.266	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	10.007	8.501	18.084	35.540	0.000	35.540	34.175	30.641	32.513	34.266	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10.007	8.501	18.084	35.540	0.000	35.540	34.175	30.641	32.513	34.266	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: SPECIAL PURPOSE VEHICLES/EQUIPMENT This program includes special purpose vehicles and trailers of commercial design which support the Naval Expeditionary Combat Command (NECC), shore activities, and Naval Special Warfare. Included are tank trucks used to transport fuel to construction equipment at remote locations, waste disposal trucks used to transport waste oil/water, overhead maintenance trucks with insulated buckets and pole and line trucks used for repair/replacement of power systems, wreckers used in vehicle recovery/towing, field servicing vehicles used for on-site preventive maintenance of construction equipment in the field, and ammunition handling trucks used in loading/unloading and transporting munitions. Truck tractors and trailers required by the active operating forces in the logistics support of the fleet are also included in this program. Representative types and uses include van and stake bed semi-trailers to support loading/unloading of ships and aircraft and movement of materials and equipment for fleet operations, lowbed semitrailers for transport of construction equipment, tank trailers for transport and dispensing of water, fuel, and hazardous liquids, and semi-trailers transport of materials. This program includes funds for the procurement of Bearcats, used on paved or improved roads, to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facility, Atlantic (SWFLANT) in Kings Bay, GA and the Strategic Weapons Facility, Pacific (SWFPAC) in Bangor, WA. Equipment is used in support of Strategic Systems Programs (SSP) mission of securing the Limited Area and provides for security vehicles to replace existing (aging) vehicles used in roving patrols of the Limited Area and to support TRIDENT II (D5) missile movement convoys. COMBAT CONSTRUCTION SUPPORT EQUIPMENT The equipment included in this program is used by the Naval Expeditionary Combat Command (NECC), Naval Beach Group (NBG), and Naval Special Warfare to provide responsive military construction support to the Navy, Marine Corps, and other forces during military operations, construction of base facilities, and in the conduct of limited defensive operations. These facilities and equipment are vital for maintaining the integrity and sustainability of these units during contingency and wartime operations. Equipment items include containers, required for prepacking and securing on-site storage of expensive equipment to expedite mobilization, fuel storage tanks required for on-site storage of fuel, water purification units required for camp water treatment systems, water storage tanks (collapsible fabric) required for water treatment, storage and distribution systems, power distribution panelboards required for camp electrical distribution systems, and tension fabric structures required for expeditionary facilities to provide equipment maintenance and company shops, berthing, laundry, and combat operations centers. OCEAN CONSTRUCTION EQUIPMENT Ocean Construction Equipment are those specialized equipment and facilities components used primarily by the Naval Construction Force (NCF) to perform site selection, construction, inspection, maintenance, repair and removal of fleet and other Navy fixed underwater and ocean facilities, and in support of shore-based hyperbarics. Some equipment is centrally procured under this line as initial outfitting for the												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment		P-1 Line Item Number / Title: 6060 / Items under \$5 million
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		
Underwater Construction Teams' (UCT) Tables of Allowance (TOA). Most of the equipment is for the Ocean Construction Equipment Inventory (OCEI). It is centrally procured and maintained by the Naval Facilities Engineering Command in a controlled inventory to ensure the NCF response to fleet needs is both timely and adequate. Utilization of funds from this program sustains the Naval Construction Force (NCF) capability to meet fleet requirements for ocean facility site survey, construction, inspection, repair, and removal, resulting in the ability of the fleet to retain its readiness through utilization of its underwater facilities. The funds requested in FY19 funds for specialized ocean construction equipment will be utilized to procure the following items, for which the OCEI is particularly deficient: Survey System, Side Scan Sonar, Underwater Drone, Dark Water Vision and Handheld Global Positioning System. MOBILE UTILITIES SUPPORT EQUIPMENT (MUSE) Equipment in this program consists of electric power generation plants, electric substations, and electric switch gear. MUSE provides short-term support for fleet and shore utility requirements resulting from equipment failures, changes in planning and programming, temporary replacement of utilities equipment which is out of service, ship support and testing, expeditionary military operations, and utilities outages resulting from natural disaster. Operations supported are submarine testing, ships' repair, retrofit and nuclear refueling, cold iron applications, serious utility system deficiencies, MILCON delay, and advanced base requirements.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6060 / Items under \$5 million				
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-40a	Items under \$5 million	P-5a			- / 10.007	- / 8.501	- / 18.084	- / 35.540	- / -	- / 35.540
P-40	Total Gross/Weapon System Cost				- / 10.007	- / 8.501	- / 18.084	- / 35.540	- / 0.000	- / 35.540
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The funds requested in FY 2019 will provide for requirements to support fielding a fleet of equipment within useful life expectancy, this includes replacement of equipment which has exceeded its useful life or new approved equipment requirements necessary to support the various expeditionary missions. Focus for expeditionary facilities is the procurement and fielding of Command and Control tent camp equipment and berthing. These engineered capabilities integrate joint standardization board (JSB) approved equipment to ensure interoperability, energy enhancements and commonality across the Navy and DOD. These materiel assets support Naval Special Warfare (NSW) and other Navy Expeditionary Forces core mission requirements and are essential to the readiness and battlefield effectiveness of NSW. Cost Element 1.3 - Naval Special Warfare (NSW) operates 62 heavy duty stake trucks and must ensure trucks are safe and reliable for moving hazardous material, ordnance and weapons in support of SEAL and Special Boat Team training. These trucks tow, launch and recover eight and eleven meter boats used to provide safety support during ocean diving and free fall water jumps. Increased procurement numbers from one (1) to six (6) represent planned replacements for older trucks and fill shortfalls from stake trucks sent to Defense Reutilization and Marketing Offices because of poor mechanical condition. Cost Element 1.4 - NSW operates 45 truck tractors and plans to replace seven (7) of the older trucks in FY19 due to poor mechanical condition, high mileage and safety concerns. These truck tractors support cargo and equipment movement in support of SEAL, Special Boat, and Special Reconnaissance Team readiness to for exercises, force rotations, training evolutions in the deployment cycle and special mission support for Naval Special Warfare Development Group. Cost Element 1.7 - NSW plans to replace four (4) Stake Trucks in FY19 due to poor mechanical condition, high mileage and safety concerns. These truck tractors support cargo and equipment movement in support of SEAL, Special Boat, and Special Reconnaissance Team readiness to for exercises, force rotations, training evolutions in the deployment cycle and special mission support for Naval Special Warfare Development Group. Cost Element 1.11 - NSW plans to replace eight (8) Stake Trailers in FY19 due to poor mechanical condition, high mileage and safety concerns. These are planned replacements for older trucks and fill shortfalls from stake trailers sent to Defense Reutilization and Marketing Offices because of poor mechanical condition. Mobile Utilities Support Equipment - Increase in FY19 funding will be used to recapitalize the MUSE generator and substation equipment. Current inventory and condition assessment of MUSE power generation assets rated 77% of generation capability. The assessment also rated a zero percent capability to support CONUS prime power missions. The major risk is long term limited availability of MUSE (total and EPA compliant) generation assets with continued increases in unsupported MUSE missions. Capabilities presented on the P40-A consist of many components. Variation in components being procured in a given fiscal year will yield fluctuation in the unit costs.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6060 / Items under \$5 million								Aggregated Items Title: Items under \$5 million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
1) SPECIAL PURPOSE VEHICLES																					
1.2) 474, TRUCK VAN 21000 GVWR AND UP 12-18 FT BODY ^(†)	A		-	-	-	-	-	-	72,055.00	11	0.793	73,496.00	9	0.661	-	-	-	73,496.00	9	0.661	
1.3) 533, TRUCK STAKE 21000 GVWR AND UP 12-18 FT BED REG CAB ^(†)	A		-	-	-	-	-	-	72,496.00	1	0.072	73,440.00	6	0.441	-	-	-	73,440.00	6	0.441	
1.4) 624H, TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR ^(†)	A		-	-	-	-	-	-	123,763.00	3	0.371	125,732.00	7	0.880	-	-	-	125,732.00	7	0.880	
1.6) 634H, TRUCK Tractor 85000 GVWR NONSTANDARD ^(†)	A		-	-	-	-	-	-	105,312.00	1	0.105	-	-	-	-	-	-	-	-	-	
1.7) 734, TRUCK STAKE 6X4 43000 GVWR NONSTANDARD ^(†)	A		-	-	-	-	-	-	105,312.00	3	0.316	105,026.00	4	0.420	-	-	-	105,026.00	4	0.420	
1.9) AIRCRAFT REFUELER ^(†)	A		-	-	-	-	-	-	685,000.00	3	2.055	-	-	-	-	-	-	-	-	-	
1.11) DLA, TRAILER, STAKE, FLAT 53 ^(†)	A		-	-	-	-	-	-	45,496.00	6	0.273	45,900.00	8	0.367	-	-	-	45,900.00	8	0.367	
1.12) ILS for SPECIAL PURPOSE VEHICLES	A		-	-	0.307	-	-	0.227	-	-	0.074	-	-	0.239	-	-	-	-	-	0.239	
1.13) Multi-Mission EOD Response Truck ^(†)	A		-	-	-	-	-	-	800,000.00	6	4.800	-	-	-	-	-	-	-	-	-	
1.14) SEMI LOWBED 35 TON ^(†)	A		-	-	-	-	-	-	-	-	-	80,000.00	2	0.160	-	-	-	80,000.00	2	0.160	
1.15) SEMITRAILER STAKE BREAKBULK/ ISO CONTAINER ^(†)	A		61,000.00	2	0.122	60,891.00	6	0.365	-	-	-	64,428.00	5	0.322	-	-	-	64,428.00	5	0.322	
1.16) TRAILER 55T LOWBED ^(†)	A		74,500.00	2	0.149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.17) SEMITRAILER STAKE TRUCK 34 TON ^(†)	A		-	-	-	-	-	-	-	-	-	64,428.00	5	0.322	-	-	-	64,428.00	5	0.322	
1.18) TRLR TNK 400G ^(†)	A		22,500.00	24	0.540	-	-	-	23,340.00	4	0.093	-	-	-	-	-	-	-	-	-	
1.19) TRUCK STAKE 21000 GVWR RHD ^(†)	A		-	-	-	-	-	-	70,496.00	1	0.070	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6060 / Items under \$5 million									Aggregated Items Title: Items under \$5 million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1.20) TRUCK STAKE 6X6 DED 52000 GVW ^(†)	A		-	-	-	160,000.00	1	0.160	-	-	-	-	-	-	-	-	-	-	-	-
1.21) TRUCK TANK FUEL 4X4 DED 1500 GAL ^(†)	A		-	-	-	98,473.00	2	0.197	-	-	-	-	-	-	-	-	-	-	-	-
1.22) TRUCK TRACTOR ^(†)	A		170,454.55	11	1.875	173,867.00	10	1.739	-	-	-	-	-	-	-	-	-	-	-	-
1.24) TRUCK TRACTOR 6X4 ^(†)	A		-	-	-	-	-	-	213,350.00	4	0.853	217,617.00	2	0.435	-	-	-	217,617.00	2	0.435
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS ^(†)	A		282,000.00	1	0.282	257,000.00	1	0.257	263,000.00	1	0.263	283,666.66	3	0.851	-	-	-	283,666.66	3	0.851
Subtotal: 1) SPECIAL PURPOSE VEHICLES			-	-	3.275	-	-	2.945	-	-	10.138	-	-	5.098	-	-	-	-	-	5.098
2) COMBAT CONSTRUCTION SUPPORT EQUIPMENT ⁽¹⁾																				
2.1) EXPEDITIONARY FACILITIES - INTEGRATED BERTHING 48 PERSON ^(†)	A		-	-	-	-	-	-	-	-	-	379,216.00	21	7.964	-	-	-	379,216.00	21	7.964
2.3) CONTAINER, REFRIGERATION, STANDARD 20FT ^(†)	A		-	-	-	-	-	-	141,000.00	15	2.115	143,820.00	4	0.575	-	-	-	143,820.00	4	0.575
2.4) CONTAINERS ^(†)	A		22,000.00	11	0.242	-	-	-	22,809.00	51	1.163	-	-	-	-	-	-	-	-	-
2.5) EXPEDITIONARY FACILITY ^(†)	A		696,200.00	5	3.481	805,151.00	5	4.026	722,195.00	4	2.889	-	-	-	-	-	-	-	-	-
2.6) EXPEDITIONARY FACILITY (RESERVE FORCES) ^(†)	A		696,000.00	2	1.392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.7) EXPEDITIONARY FACILITY- TACTICAL OPERATION COMMAND ^(†)	A		-	-	-	-	-	-	-	-	-	360,252.00	25	9.006	-	-	-	360,252.00	25	9.006
2.8) EXPEDITIONARY FACILITY- COMMAND OPERATIONS	A		-	-	-	-	-	-	-	-	-	920,000.00	4	3.680	-	-	-	920,000.00	4	3.680

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6060 / Items under \$5 million						Aggregated Items Title: Items under \$5 million									
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
CCENTER - MEDIUM ^(†)																					
2.12) ILS FOR COMBAT CONSTRUCTION SUPPORT EQUIPMENT	A		-	-	0.417	-	-	0.447	-	-	0.418	-	-	0.020	-	-	-	-	-	0.020	
2.13) MANPORTABLE WATER FILTRATION ^(†)	A		-	-	-	-	-	-	22,000.00	4	0.088	-	-	-	-	-	-	-	-	-	
2.18) EXPEDITIONARY MEDICAL SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	1.542	-	-	-	-	-	1.542	
Subtotal: 2) COMBAT CONSTRUCTION SUPPORT EQUIPMENT			-	-	5.532	-	-	4.473	-	-	6.673	-	-	22.787	-	-	-	-	-	22.787	
3) MOBILE UTILITIES SUPPORT EQUIPMENT																					
3.1) MOBILE UTILITIES SUPPORT EQUIPMENT ^(†)	A		900,000.00	1	0.900	847,000.00	1	0.847	909,000.00	1	0.909	-	-	-	-	-	-	-	-	-	
3.2) AUXILIARY DIESEL GENERATORS ^(†)	A		-	-	-	-	-	-	-	-	-	49,000.00	1	0.049	-	-	-	49,000.00	1	0.049	
3.3) DIESEL GENERATORS (4160V) ^(†)	A		-	-	-	-	-	-	-	-	-	1,221K	3	3.663	-	-	-	1,221K	3	3.663	
3.4) TIER-2 COMPLIANT CUMMINS ENGINES ^(†)	A		-	-	-	-	-	-	-	-	-	300,000.00	1	0.300	-	-	-	300,000.00	1	0.300	
3.5) 2000 AMP, 5KV/15KV LOAD DISTRIBUTION SWITCHGEAR ^(†)	A		-	-	-	-	-	-	-	-	-	1,500K	1	1.500	-	-	-	1,500K	1	1.500	
3.6) 2500 KVA, 5KV/15KV TRANSFORMER ^(†)	A		-	-	-	-	-	-	-	-	-	150,000.00	1	0.150	-	-	-	150,000.00	1	0.150	
3.7) 3750 KVA, 5KV/480 V TRANSFORMER ^(†)	A		-	-	-	-	-	-	-	-	-	400,000.00	1	0.400	-	-	-	400,000.00	1	0.400	
3.8) 5000 AMP, 480 V LOAD DISTRIBUTION SWITCHGEAR ^(†)	A		-	-	-	-	-	-	-	-	-	1,000K	1	1.000	-	-	-	1,000K	1	1.000	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6060 / Items under \$5 million								Aggregated Items Title: Items under \$5 million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.9) 3200 AMP, 480 V MOBILE POWER MOUND AND MISC. AND CONNECTORS ^(†)	A		-	-	-	-	-	-	-	-	-	300,000.00	1	0.300	-	-	-	300,000.00	1	0.300
Subtotal: 3) MOBILE UTILITIES SUPPORT EQUIPMENT			-	-	0.900	-	-	0.847	-	-	0.909	-	-	7.362	-	-	-	-	-	7.362
4) OCEAN CONSTRUCTION EQUIPMENT																				
4.1) OCEAN CONSTRUCTION EQUIPMENT ^(†)	A		75,000.00	4	0.300	59,000.00	4	0.236	91,000.00	4	0.364	73,250.00	4	0.293	-	-	-	73,250.00	4	0.293
Subtotal: 4) OCEAN CONSTRUCTION EQUIPMENT			-	-	0.300	-	-	0.236	-	-	0.364	-	-	0.293	-	-	-	-	-	0.293
Total			-	-	10.007	-	-	8.501	-	-	18.084	-	-	35.540	-	-	-	-	-	35.540

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

(†) indicates the presence of a P-5a

Footnotes:

(1) Capabilities presented on the P40-A consist of many components. Variation in components being procured in a given fiscal year will yield fluctuation in the unit costs.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6060 / Items under \$5 million						Aggregated Items: Items under \$5 million			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) SPECIAL PURPOSE VEHICLES												
1.2) 474, TRUCK VAN 21000 GVWR AND UP 12-18 FT BODY		2018	Truck Country Freightliner / Kaukauna, WI	MIPR	GSA	Oct 2017	Jul 2018	11	72,055.00	Y		
1.2) 474, TRUCK VAN 21000 GVWR AND UP 12-18 FT BODY		2019	Truck Country Freightliner / Kaukauna, WI	MIPR	GSA	Oct 2018	Oct 2018	9	73,496.00	Y		
1.3) 533, TRUCK STAKE 21000 GVWR AND UP 12-18 FT BED REG CAB		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Mar 2018	1	72,496.00	Y		
1.3) 533, TRUCK STAKE 21000 GVWR AND UP 12-18 FT BED REG CAB		2019	Unknown / Unknown	MIPR	GSA	Oct 2018	Oct 2018	6	73,440.00	N		
1.4) 624H, TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Nov 2018	3	123,763.00	Y		
1.4) 624H, TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR		2019	Unknown / Unknown	MIPR	GSA	Oct 2018	Oct 2018	7	125,732.00	N		
1.6) 634H, TRUCK Tractor 85000 GVWR NONSTANDARD		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Dec 2018	1	105,312.00	Y		
1.7) 734, TRUCK STAKE 6X4 43000 GVWR NONSTANDARD		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Nov 2018	3	105,312.00	Y		
1.7) 734, TRUCK STAKE 6X4 43000 GVWR NONSTANDARD		2019	Unknown / Unknown	MIPR	GSA	Oct 2018	Oct 2018	4	105,026.00	N		
1.9) AIRCRAFT REFUELER		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Mar 2018	3	685,000.00	Y		
1.11) DLA, TRAILER, STAKE, FLAT 53'		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Nov 2018	6	45,496.00	Y		
1.11) DLA, TRAILER, STAKE, FLAT 53'		2019	Unknown / Unknown	MIPR	GSA	Oct 2018	Oct 2018	8	45,900.00	N		
1.13) Multi-Mission EOD Response Truck		2018	Unknown / Unknown	MIPR	DLA	Mar 2018	Sep 2018	6	800,000.00	Y		
1.14) SEMI LOWBED 35 TON		2019	Unknown / Unknown	C / TBD	DLA	Dec 2018	Dec 2019	2	80,000.00	Y		
1.15) SEMITRAILER STAKE BREAKBULK/ISO CONTAINER		2016	GLOBE TRAILER / Bradenton, FL	MIPR	DLA	Jun 2016	Jun 2016	2	60,891.00	Y		
1.15) SEMITRAILER STAKE BREAKBULK/ISO CONTAINER		2017	GLOBE TRAILER / Bradenton, FL	MIPR	GSA	Sep 2017	Jun 2018	6	60,891.00	Y		
1.15) SEMITRAILER STAKE BREAKBULK/ISO CONTAINER		2019	UNKNOWN / UNKNOWN	MIPR	GSA	Oct 2018	Oct 2018	5	64,428.00	Y		
1.16) TRAILER 55T LOWBED		2016	GLOBE TRAILER / Bradenton, FL	MIPR	DLA	Aug 2016	Oct 2016	2	74,529.00	Y		
1.17) SEMITRAILER STAKE TRUCK 34 TON		2019	Unknown / Unknown	MIPR	GSA	Oct 2018	Oct 2019	5	64,428.00	Y		
1.18) TRLR TNK 400G		2016	GLOBE TRAILER / Bradenton, FL	MIPR	DLA	Sep 2016	Feb 2017	24	22,500.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6060 / Items under \$5 million					Aggregated Items: Items under \$5 million				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.18) TRLR TNK 400G		2018	GLOBE TRAILER / Bradenton, FL	MIPR	DLA	Jan 2018	Jun 2018	4	23,340.00	Y		
1.19) TRUCK STAKE 21000 GVWR RHD		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Nov 2018	1	70,496.00	Y		
1.20) TRUCK STAKE 6X6 DED 52000 GVW		2017	NAVISTAR International / Madison Heights, MI	MIPR	DLA	Oct 2016	Oct 2016	1	160,000.00	Y		
1.21) TRUCK TANK FUEL 4X4 DED 1500 GAL		2017	VARIOUS / VARIOUS	MIPR	GSA	Sep 2017	Mar 2018	2	98,473.00	Y		
1.22) TRUCK TRACTOR		2016	Navistar, Inc / Knoxville, TN	Various	Various	Apr 2016	Nov 2016	11	170,458.00	Y		
1.22) TRUCK TRACTOR		2017	Navistar, Inc / Knoxville, TN	Various	Various	Oct 2017	May 2018	10	173,867.00	Y		
1.24) TRUCK TRACTOR 6X4		2018	Unknown / Unknown	MIPR	GSA	Mar 2018	Sep 2018	4	213,350.00	Y		
1.24) TRUCK TRACTOR 6X4		2019	Unknown / Unknown	MIPR	GSA	Oct 2018	Oct 2018	2	217,617.00	N		
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS		2016	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Oct 2016	Jul 2017	1	282,000.00	Y		
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS		2017	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Jun 2017	Mar 2018	1	257,000.00	Y		
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS		2018	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Nov 2017	Aug 2018	1	263,000.00	Y		
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS		2019	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Nov 2018	Aug 2019	3	283,666.66	Y		
2) COMBAT CONSTRUCTION SUPPORT EQUIPMENT												
2.1) EXPEDITIONARY FACILITIES - INTEGRATED BERTHING 48 PERSON		2019	Unknown / Unknown	C / TBD	DLA	Jan 2019	Jan 2020	21	379,216.00	Y		
2.3) CONTAINER, REFRIGERATION, STANDARD 20FT		2018	Unknown / Unknown	MIPR	Army	Mar 2018	Sep 2018	15	141,000.00	Y		
2.3) CONTAINER, REFRIGERATION, STANDARD 20FT		2019	Unknown / Unknown	MIPR	Army	Oct 2018	Oct 2018	4	143,820.00	N		
2.4) CONTAINERS		2016	MainstreamEngineering Corporation / Rockledge FL	C / TBD	DLA	May 2016	Dec 2016	11	21,988.00	Y		
2.4) CONTAINERS		2018	UNKNOWN / UNKNOWN	C / TBD	DLA	Mar 2018	Jun 2018	51	22,809.00	Y		
2.5) EXPEDITIONARY FACILITY		2016	VARIOUS / VARIOUS	MIPR	DLA	Jun 2016	Nov 2016	5	696,197.00	Y		
2.5) EXPEDITIONARY FACILITY		2017	VARIOUS / VARIOUS	MIPR	DLA	Jan 2017	Jun 2017	5	805,151.00	N		
2.5) EXPEDITIONARY FACILITY		2018	UNKNOWN / UNKNOWN	MIPR	DLA	Jan 2018	Jun 2018	4	722,195.00	N		
2.6) EXPEDITIONARY FACILITY (RESERVE FORCES)		2016	VARIOUS / VARIOUS	MIPR	DLA	Sep 2016	Feb 2017	2	696,197.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6060 / Items under \$5 million						Aggregated Items: Items under \$5 million			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.7) EXPEDITIONARY FACILITY- TACTICAL OPERATION COMMAND		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	25	360,252.00	Y		
2.8) EXPEDITIONARY FACILITY- COMMAND OPERATIONS CCENTER - MEDIUM		2019	Unknown / Unknown	C / TBD	** NO PCO **	Dec 2018	Dec 2019	4	920,000.00	Y		
2.13) MANPORTABLE WATER FILTRATION		2018	Unknown / Unknown	MIPR	USMC	Jan 2018	Jul 2018	4	22,000.00	Y		
3) MOBILE UTILITIES SUPPORT EQUIPMENT												
3.1) MOBILE UTILITIES SUPPORT EQUIPMENT		2016	Argo Systems, LLC / Hanover, MD	C / FFP	NAVFAC	May 2016	May 2017	1	900,000.00	Y		
3.1) MOBILE UTILITIES SUPPORT EQUIPMENT		2017	Argo Systems, LLC / Hanover, MD	C / FFP	NAVFAC	Oct 2017	Oct 2018	1	847,000.00	Y		
3.1) MOBILE UTILITIES SUPPORT EQUIPMENT		2018	Unknown / Unknown	C / FFP	NAVFAC	May 2018	May 2019	1	909,000.00	Y		
3.2) AUXILIARY DIESEL GENERATORS		2019	Unknown / Unknown	C / TBD	** NO PCO **	Dec 2018	Dec 2019	1	49,000.00	Y		
3.3) DIESEL GENERATORS (4160V)		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	3	1,221K	Y		
3.4) TIER-2 COMPLIANT CUMMINS ENGINES		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	1	300,000.00	Y		
3.5) 2000 AMP, 5KV/15KV LOAD DISTRIBUTION SWITCHGEAR		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	1	1,500K	Y		
3.6) 2500 KVA, 5KV/15KV TRANSFORMER		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	1	150,000.00	Y		
3.7) 3750 KVA, 5KV/480 V TRANSFORMER		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	1	400,000.00	Y		
3.8) 5000 AMP, 480 V LOAD DISTRIBUTION SWITCHGEAR		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	1	1,000K	Y		
3.9) 3200 AMP, 480 V MOBILE POWER MOUND AND MISC. AND CONNECTORS		2019	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2019	Jan 2020	1	300,000.00	Y		
4) OCEAN CONSTRUCTION EQUIPMENT												
4.1) OCEAN CONSTRUCTION EQUIPMENT		2016	ADS Operational Equipment and Logistics Support / Virginia Beach, VA	C / FFP	NAVFAC	Mar 2016	Jul 2016	4	75,000.00	Y		
4.1) OCEAN CONSTRUCTION EQUIPMENT		2017	ADS Operational Equipment and Logistics Support / Virginia Beach, VA	C / FFP	NAVFAC	Oct 2017	Feb 2018	4	59,000.00	Y		
4.1) OCEAN CONSTRUCTION EQUIPMENT		2018	Unknown / Unknown	C / FFP	NAVFAC	Jan 2018	Jun 2018	4	91,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6060 / Items under \$5 million				Aggregated Items: Items under \$5 million				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.1) OCEAN CONSTRUCTION EQUIPMENT		2019	Unknown / Unknown	C / FFP	NAVFAC	Oct 2018	Oct 2018	4	73,250.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6075 / Physical Security Vehicles						
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	1.095	1.170	1.155	0.000	1.155	1.173	1.192	1.194	1.220	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	1.095	1.170	1.155	0.000	1.155	1.173	1.192	1.194	1.220	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	1.095	1.170	1.155	0.000	1.155	1.173	1.192	1.194	1.220	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This budget line item funds procurement of physical security vehicles to include armored sedans and armored cargo/utility trucks assigned to Antiterrorism (AT), Counterintelligence (CI), and Counternarcotics (CN) missions in high threat OCONUS locations.

Sedans and cargo/utility trucks are armored to various levels of protection and are on platforms of varying sizes and gross vehicle weights, dependent upon the level of threat and the operating environment. These vehicles are generically referred to as either Commercial Heavy Armored Vehicles (CHAVs) or Commercial Light Armored Vehicles (CLAVs).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment					P-1 Line Item Number / Title: 6075 / Physical Security Vehicles					
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-40a	Physical Security Vehicles	P-5a			- / 0.000	- / 1.095	- / 1.170	- / 1.155	- / -	- / 1.155
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 1.095	- / 1.170	- / 1.155	- / 0.000	- / 1.155
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6075 / Physical Security Vehicles								Aggregated Items Title: Physical Security Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) HEAVY ARMORED VEHICLES																				
1.1) AUTOMOBILE SEDAN ARMORED HEAVY ^(†)	A		-	-	-	-	-	-	447,954.00	1	0.448	456,913.00	1	0.457	-	-	-	456,913.00	1	0.457
1.2) 4X4 4 DOOR 6 PASS HEAVY ARMORED ^(†)	A		-	-	-	268,000.00	1	0.268	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) HEAVY ARMORED VEHICLES			-	-	0.000	-	-	0.268	-	-	0.448	-	-	0.457	-	-	-	-	-	0.457
2) LIGHT ARMORED VEHICLES																				
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED ^(†)	A		-	-	-	206,750.00	4	0.827	180,500.00	4	0.722	174,500.00	4	0.698	-	-	-	174,500.00	4	0.698
Subtotal: 2) LIGHT ARMORED VEHICLES			-	-	0.000	-	-	0.827	-	-	0.722	-	-	0.698	-	-	-	-	-	0.698
Total			-	-	0.000	-	-	1.095	-	-	1.170	-	-	1.155	-	-	-	-	-	1.155

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

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6075 / Physical Security Vehicles					Aggregated Items: Physical Security Vehicles			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) HEAVY ARMORED VEHICLES												
1.1) AUTOMOBILE SEDAN ARMORED HEAVY		2018	Unknown / Unknown	MIPR	RPSO	Sep 2018	Feb 2019	1	447,954.00	Y		
1.1) AUTOMOBILE SEDAN ARMORED HEAVY		2019	Unknown / Unknown	MIPR	RPSO	Oct 2018	Oct 2018	1	456,913.00	Y		
1.2) 4X4 4 DOOR 6 PASS HEAVY ARMORED		2017	O'Gara Armoring / Fairfield, OH	MIPR	RPSO	Oct 2017	Mar 2018	1	268,000.00	Y		
2) LIGHT ARMORED VEHICLES												
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED		2017	Square One Armoring Services / Miami, FL	MIPR	RPSO	Oct 2017	Mar 2018	4	206,750.00	Y		
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED		2018	Unknown / Unknown	MIPR	RPSO	Sep 2018	Sep 2018	4	180,500.00	Y		
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED		2019	Unknown / Unknown	MIPR	RPSO	Oct 2018	Oct 2018	4	174,500.00	Y		

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment	P-1 Line Item Number / Title: 7025 / Supply Equipment

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0708012N	Other Related Program Elements: 0204413N, 0204996N

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	16.978	21.961	18.786	0.000	18.786	16.730	20.056	24.381	21.321	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	16.978	21.961	18.786	0.000	18.786	16.730	20.056	24.381	21.321	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	16.978	21.961	18.786	0.000	18.786	16.730	20.056	24.381	21.321	Continuing	Continuing
(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:

Note: Efforts within this budget line were consolidated from LIs 7015 and 7050 in FY16 and prior. Starting in FY17, the funding for Expeditionary Material Handling Equipment requirements transferred to Naval Facilities Engineering Command.

MATERIAL HANDLING EQUIPMENT (MHE): This program funds the procurement of Material Handling Equipment to satisfy operational requirements and replaces overaged non-repairable equipment used in material handling operations at world-wide Navy activities. Major using activities include ships, naval magazines, air stations, weapon stations, and overseas support activities such as Sigonella and Sasebo. The MHE program also funds General Fund activities to meet known operational requirements for replacement of equipment which has exceeded its economic life. Overaged equipment is not cost effective to maintain for continued operation, and repair parts are difficult to obtain. Replacement of overaged equipment with new and more efficient models will reduce excessive costs attributed to repair/overhaul, downtime and maintenance. New equipment will enhance productivity and enable stations to meet handling and logistics requirements in an efficient and effective manner.

NAVY CASH PROGRAM: This program funds the procurement of the Navy Cash system. Navy Cash was developed in partnership with the US Department of Treasury to improve business processes, create workload efficiencies, and enhance the quality of life for Sailors and Marines on board ship. It enhances the efficiencies and security of automated pay delivery and safekeeping deposit previously provided by the ATMs-at-Sea system. The Navy Cash card is a branded debit card that looks like a typical debit or check card. It utilizes a pre-paid debit model to provide deployed Sailors and Marines 24/7 access to pay, and enables a cashless shipboard environment for all retail and other personal financial transactions. In addition, Navy Cash cards are an important tool for deployed Sailors and Marines to obtain cash at any worldwide ATM ashore.

Navy Cash reduces workload for the Disbursing Office and other retail merchants through out the ship including Ships Store, Food Service, Postal and MWR. This affords more time for core functions and thereby increases readiness. It also improves shipboard business practices by automating and significantly reducing the handling of bills, coins, personal checks, and money orders, automating back-end financial processes and minimizing error-prone cash transactions while it reduces the workload associated with cash management and improves the efficiency and accuracy of fiscal accountability. This overall reduction in the need for cash decreases the costs associated with maintaining large amounts of cash in the safes of ships for the six or more months of deployment.

The current Navy Cash environment is dependent on a specific hardware and software environment that is costly to maintain and reaching end-of-life on key operating components. Navy Cash 2.0/Europay, Mastercard, Visa (EMV) is the next logical progression in cashless operations that will enhance the current Navy Cash solution by operating in a virtual environment such as the Consolidated Afloat Networks and Enterprise Services and aligns with Navy directives for virtualization of Fleet-wide systems. Navy Cash 2.0/EMV also builds on the technical expertise gained with remote updates to ship systems, and

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment		P-1 Line Item Number / Title: 7025 / Supply Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0708012N	Other Related Program Elements: 0204413N, 0204996N
Line Item MDAP/MAIS Code: N/A		
enhances this functionality to introduce full automation of application patching processes for quicker deployment of security fixes to the Fleet. Cost savings will be a direct result of reduced maintenance required for hardware and software support. Deployment is anticipated to begin FY18 and is dependent on ships schedules and CNO availabilities.		
The Navy Cash program currently uses a smart card solution containing a proprietary ePurse that carries a higher card production and maintenance cost. Benefits and substantial savings can be achieved by replacing the ePurse with EMV a global standard for credit and debit payment cards based on chip card technology. All DoD Services are consolidating to a common EMV card and program platform. EMV was mandated by Executive Order 13681, improving the Security of Consumer Financial Transactions (EMV Chip & PIN). EMV chip-based payment cards, also known as smart cards, contain an embedded microprocessor, a type of small computer. The microprocessor chip contains the information needed to use the card for payment, and is protected by various security features. Chip cards are a more secure alternative to traditional magnetic stripe payment cards.		
Navy Cash Program: 2018 36 Availabilities (25 Small / 6 Med / 3 Large / 2 CVN) 2019 40 Availabilities (30 Small / 6 Med / 2 Large / 2 CVN) 2020 37 Availabilities (29 Small / 4 Med / 2 Large / 2 CVN) 2021 32 Availabilities (22 Small / 6 Med / 2 Large / 2 CVN) 2022 16 Availabilities (11 Small / 2 Med / 1 Large / 2 CVN) 2023 20 Availabilities (20 Small / 0 Med / 0 Large / 0 CVN)		
AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): The Department of Defense (DoD) promulgated Radio Frequency Identification (RFID) Policy on 30 July 2004. Current DoD RFID policy focuses on In-Transit Visibility (ITV) support of the Combatant Commanders (COCOMs) as the primary application of active RFID (aRFID), and DoD Supply Management applications for passive RFID. This effort will ensure Fleet and component commands have deployable aRFID capability to support contingencies and DoD/Navy RFID policy. Navy has invested in and taken action to support implementation of 35 CONUS and OCONUS locations with an additional 16 locations projected for completion by the end of FY18. These funds represent the Navy costs for the initial outfitting and life cycle costs to fully fund all currently identified COCOM ITV requirements. The Navy also has vested interests with 16 additional Army funded CONUS and OCONUS aRFID Read nodes residing on Navy property which greatly enhances the Radio Frequency In-Transit Visibility (RF-ITV) of Navy aRFID tagged assets. The Navy continues to coordinate with the Army's Automated Movement and Identification Solutions (AMIS) for all aRFID and DOD AIT RF-ITV Contract installations, upgrades, hardware, software and infrastructure procurement requirements for Navy sites.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment						P-1 Line Item Number / Title: 7025 / Supply Equipment				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0708012N			Other Related Program Elements: 0204413N, 0204996N				
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-40a	Supply Equipment (Materials Handling Equipment)	P-5a			- / 0.000	- / 12.404	- / 18.235	- / 13.787	- / -	- / 13.787
P-5	1 / Supply Equipment (Other Supply Support Equipment)				- / 0.000	- / 4.574	- / 3.726	- / 5.000	- / 0.000	- / 5.000
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 16.978	- / 21.961	- / 18.786	- / 0.000	- / 18.786
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY19 includes \$1.4M for collateral equipment (Classified Program PBD700A2 CON-10543) Funding is to procure the new requirement for Material Handling Equipment for one 25,000 lb 1433, and the replacement of twenty nine 6,000 lb 1330, twenty five 4,00 lb 1390 shipboard, sixteen 4,000 lb 1370 shipboard, eleven 6,000 lb 1351 shipboard and 15,000 lb 1340 shipboard and eight 6,000 lb manual Pallet Jack and 6,000 lb 1370. It also procures a number of 20,000 lb 1200 shipboard, 30,000 lb 1200 shipboard, 20,000 lb 1340 shipboard, 34,000 lb 1340, and 10,000 lb 1343 to replace aged equipment to improve safety and efficiency.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1							P-1 Line Item Number / Title: 7025 / Supply Equipment								Aggregated Items Title: Supply Equipment (Materials Handling Equipment)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) New Requirements																				
1.1) 15,000 lb 1340 (W4001) ^(†)	A		-	-	-	-	-	-	82,000.00	2	0.164	-	-	-	-	-	-	-	-	-
1.2) 25,000 lb 1433 (W4005) ^(†)	A		-	-	-	895,791.00	1	0.896	913,707.00	2	1.827	926,508.00	1	0.927	-	-	-	926,508.00	1	0.927
1.3) 5700 MCRRS Deck Cleaning System ^(†)	A		-	-	-	-	-	-	663,000.00	1	0.663	-	-	-	-	-	-	-	-	-
1.6) Non-Powered MHE	A		-	-	-	-	-	0.036	-	-	0.029	-	-	-	-	-	-	-	-	-
Subtotal: 1) New Requirements			-	-	0.000	-	-	0.932	-	-	2.683	-	-	0.927	-	-	-	-	-	0.927
2) Replacement Program																				
2.1) 4,000 lb 1300 (W4001) ^(†)	A		-	-	-	27,880.00	3	0.084	-	-	-	28,836.00	2	0.058	-	-	-	28,836.00	2	0.058
2.2) 6,000 lb 1300 (W4001) ^(†)	A		-	-	-	32,625.00	4	0.131	33,278.00	2	0.067	33,744.00	5	0.169	-	-	-	33,744.00	5	0.169
2.3) 4,000 lb 1302 (W4001) ^(†)	A		-	-	-	26,196.00	1	0.026	-	-	-	-	-	-	-	-	-	-	-	-
2.4) 6,000 lb 1302 (W4001) ^(†)	A		-	-	-	32,759.00	3	0.098	33,414.00	3	0.100	33,883.00	5	0.169	-	-	-	33,883.00	5	0.169
2.5) 4,000 lb 1305 (W4001) ^(†)	A		-	-	-	29,590.00	3	0.089	30,182.00	2	0.060	30,605.00	4	0.122	-	-	-	30,605.00	4	0.122
2.6) 6,000 lb 1305 (W4001) ^(†)	A		-	-	-	32,670.00	6	0.196	33,323.00	5	0.167	33,824.00	4	0.135	-	-	-	33,824.00	4	0.135
2.7) 8,000 lb 1305 (W4001) ^(†)	A		-	-	-	36,465.00	1	0.036	-	-	-	-	-	-	-	-	-	-	-	-
2.8) 4,000 lb 1320 (W4001) ^(†)	A		-	-	-	28,736.00	2	0.057	-	-	-	-	-	-	-	-	-	-	-	-
2.9) 4,000 lb 1325 (W4001) ^(†)	A		-	-	-	29,203.00	2	0.058	29,787.00	5	0.149	30,205.00	3	0.091	-	-	-	30,205.00	3	0.091
2.10) 6,000 lb 1325 (W4001) ^(†)	A		-	-	-	36,465.00	1	0.036	37,194.00	2	0.074	37,715.00	2	0.075	-	-	-	37,715.00	2	0.075
2.11) 4,000 lb 1330 (W4001) ^(†)	A		-	-	-	38,276.00	8	0.306	-	-	-	-	-	-	-	-	-	-	-	-
2.12) 6,000 lb 1330 (W4001) ^(†)	A		-	-	-	32,626.00	29	0.946	33,279.00	30	0.998	33,745.00	29	0.979	-	-	-	33,745.00	29	0.979
2.13) 10,000 lb 1340 (W4001) ^(†)	A		-	-	-	65,126.00	8	0.521	66,429.00	4	0.266	67,360.00	6	0.404	-	-	-	67,360.00	6	0.404

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1							P-1 Line Item Number / Title: 7025 / Supply Equipment								Aggregated Items Title: Supply Equipment (Materials Handling Equipment)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.14) 15,000 lb 1340 (W4001) ^(†)	A		-	-	-	70,183.00	17	1.193	71,587.00	10	0.716	72,590.00	11	0.798	-	-	-	72,590.00	11	0.798
2.15) 20,000 lb 1340 (W4001) ^(†)	A		-	-	-	130,089.00	1	0.130	132,690.00	2	0.265	134,550.00	3	0.404	-	-	-	134,550.00	3	0.404
2.16) 20,000 lb 1340 (W4001) Shipboard ^(†)	A		-	-	-	159,913.00	1	0.160	-	-	-	165,397.00	5	0.827	-	-	-	165,397.00	5	0.827
2.17) 25,000 lb 1340 (W4001) ^(†)	A		-	-	-	160,357.00	2	0.321	-	-	-	-	-	-	-	-	-	-	-	-
2.18) 34,000 lb 1340 (W4001) ^(†)	A		-	-	-	164,917.00	1	0.165	168,216.00	2	0.336	170,573.00	4	0.682	-	-	-	170,573.00	4	0.682
2.19) 10,000 lb 1343 (W4001) ^(†)	A		-	-	-	82,180.00	2	0.164	83,906.00	6	0.503	85,082.00	5	0.425	-	-	-	85,082.00	5	0.425
2.20) 3,000 lb 1350 (W4001) ^(†)	A		-	-	-	34,771.00	1	0.035	-	-	-	-	-	-	-	-	-	-	-	-
2.21) 6,000 lb 1350 (W4001) ^(†)	A		-	-	-	41,062.00	1	0.041	-	-	-	-	-	-	-	-	-	-	-	-
2.22) 6,000 lb 1350 (W4001) Shipboard ^(†)	A		-	-	-	59,503.00	5	0.298	60,693.00	5	0.303	61,543.00	2	0.123	-	-	-	61,543.00	2	0.123
2.23) 6,000 lb 1351 (W4001) Shipboard ^(†)	A		-	-	-	79,270.00	6	0.476	80,855.00	34	2.749	82,230.00	11	0.905	-	-	-	82,230.00	11	0.905
2.24) 4,000 lb 1370 (W4001) ^(†)	A		-	-	-	28,840.00	8	0.231	29,417.00	9	0.265	29,829.00	7	0.209	-	-	-	29,829.00	7	0.209
2.25) 6,000 lb 1370 (W4001) ^(†)	A		-	-	-	34,919.00	4	0.140	35,617.00	5	0.178	36,116.00	8	0.289	-	-	-	36,116.00	8	0.289
2.26) 4,000 lb 1370 (W4001) Shipboard ^(†)	A		-	-	-	67,718.00	26	1.761	69,072.00	35	2.418	70,040.00	16	1.121	-	-	-	70,040.00	16	1.121
2.27) 4,000 lb 1371 (W4001) ^(†)	A		-	-	-	38,539.00	8	0.308	-	-	-	-	-	-	-	-	-	-	-	-
2.28) 6,000 lb 1380 (W4001) ^(†)	A		-	-	-	34,919.00	1	0.035	-	-	-	-	-	-	-	-	-	-	-	-
2.29) 3,000 lb 1390 (W4001) ^(†)	A		-	-	-	37,192.00	1	0.037	-	-	-	-	-	-	-	-	-	-	-	-
2.31) 4,000 lb 1390 (W4001) Shipboard ^(†)	A		-	-	-	-	-	-	118,091.00	35	4.133	119,745.00	25	2.994	-	-	-	119,745.00	25	2.994
2.32) 6,000 lb 1820 (W4001) ^(†)	A		-	-	-	154,757.00	3	0.464	-	-	-	-	-	-	-	-	-	-	-	-
2.33) 10,000 lb 1820 (W4001) Shipboard ^(†)	A		-	-	-	-	-	-	193,847.00	1	0.194	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1									P-1 Line Item Number / Title: 7025 / Supply Equipment							Aggregated Items Title: Supply Equipment (Materials Handling Equipment)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
2.34) 10,000 lb 1823 (W4001) ^(†)	A		-	-	-	180,760.00	1	0.181	-	-	-	-	-	-	-	-	-	-	-	-	
2.35) 4,000 lb 1100 (W4003) ^(†)	A		-	-	-	30,404.00	2	0.061	-	-	-	-	-	-	-	-	-	-	-	-	
2.36) 4,000 lb 1125 (W4003) ^(†)	A		-	-	-	42,272.00	2	0.085	-	-	-	43,550.00	2	0.087	-	-	-	43,550.00	2	0.087	
2.37) 20,000 lb 1200 (W4004) Shipboard ^(†)	A		-	-	-	-	-	-	165,995.00	2	0.332	168,320.00	5	0.842	-	-	-	168,320.00	5	0.842	
2.38) 30,000 lb 1200 (W4004) Shipboard ^(†)	A		-	-	-	-	-	-	296,514.00	4	1.186	300,668.00	3	0.902	-	-	-	300,668.00	3	0.902	
2.39) 4,000 lb 1400 (W4005) ^(†)	A		-	-	-	31,261.00	1	0.031	-	-	-	-	-	-	-	-	-	-	-	-	
2.40) 6,000 lb 1610 (W4006) ^(†)	A		-	-	-	24,845.00	2	0.050	-	-	-	-	-	-	-	-	-	-	-	-	
2.41) 6,000 lb 1610 (W4006) Shipboard ^(†)	A		-	-	-	24,845.00	1	0.025	-	-	-	-	-	-	-	-	-	-	-	-	
2.42) 6,000 lb Manual Pallet Jack (Shipboard) ^(†)	A		-	-	-	6,069.00	30	0.182	6,190.00	15	0.093	6,277.00	8	0.050	-	-	-	6,277.00	8	0.050	
Subtotal: 2) Replacement Program			-	-	0.000	-	-	9.158	-	-	15.552	-	-	12.860	-	-	-	-	-	12.860	
3) New Requirements (Expeditionary)																					
3.1) 11,000lb 1820 MMV (W4001) Reserve Forces ^(†)	A		-	-	-	160,814.00	4	0.643	-	-	-	-	-	-	-	-	-	-	-	-	
3.2) Non-Powered (Expeditionary)	A		-	-	-	-	-	0.013	-	-	-	-	-	-	-	-	-	-	-	-	
3.3) Non-Powered (Reserve)	A		-	-	-	-	-	0.012	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) New Requirements (Expeditionary)			-	-	0.000	-	-	0.668	-	-	-	-	-	-	-	-	-	-	-	-	
4) Replacement Program (Expeditionary)																					
4.1) 4,000lb 1300 (W4001) Reserve Forces ^(†)	A		-	-	-	27,824.00	2	0.056	-	-	-	-	-	-	-	-	-	-	-	-	
4.2) 4,000lb 1370 (W4001) Expeditionary ^(†)	A		-	-	-	28,783.00	12	0.345	-	-	-	-	-	-	-	-	-	-	-	-	
4.3) 20,000lb 1820 (W4001) Expeditionary ^(†)	A		-	-	-	311,233.00	4	1.245	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1							P-1 Line Item Number / Title: 7025 / Supply Equipment							Aggregated Items Title: Supply Equipment (Materials Handling Equipment)						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: 4) Replacement Program (Expeditionary)			-	-	0.000	-	-	1.646	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	0.000	-	-	12.404	-	-	18.235	-	-	13.787	-	-	-	-	-	13.787

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

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1			P-1 Line Item Number / Title: 7025 / Supply Equipment						Aggregated Items: Supply Equipment (Materials Handling Equipment)			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) New Requirements												
1.1) 15,000 lb 1340 (W4001)	✓	2018	UNKNOWN / TBD	C / FP	DSC Philadelphia	Mar 2018	Oct 2018	2	82,000.00	Y		
1.2) 25,000 lb 1433 (W4005)		2017	Wright & Wright / Kentucky	C / FP	DSC Philadelphia	Aug 2017	May 2018	1	895,791.00	Y		
1.2) 25,000 lb 1433 (W4005)		2018	Wright & Wright / Kentucky	C / FP	DSC Philadelphia	Mar 2018	Dec 2018	2	913,707.00	Y		
1.2) 25,000 lb 1433 (W4005)		2019	Wright & Wright / Kentucky	C / FP	DSC Philadelphia	Mar 2019	Dec 2019	1	926,508.00	Y		
1.3) 5700 MCRRS Deck Cleaning System		2018	Trivaris Ltd. / Canada	C / FP	DSC Philadelphia	Feb 2018	Aug 2018	1	663,000.00	Y		
2) Replacement Program												
2.1) 4,000 lb 1300 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	3	27,880.00	Y		
2.1) 4,000 lb 1300 (W4001)		2019	Hyster / CA	C / FP	DSC Philadelphia	Dec 2018	Jul 2019	2	28,836.00	Y		
2.2) 6,000 lb 1300 (W4001)		2017	Raymond / CA	C / FP	DSC Philadelphia	Nov 2016	May 2017	4	32,625.00	Y		
2.2) 6,000 lb 1300 (W4001)		2018	Raymond / CA	C / FP	DSC Philadelphia	Nov 2017	May 2018	2	33,278.00	Y		
2.2) 6,000 lb 1300 (W4001)		2019	Raymond / CA	C / FP	DSC Philadelphia	Nov 2018	May 2019	5	33,744.00	Y		
2.3) 4,000 lb 1302 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	1	26,196.00	Y		
2.4) 6,000 lb 1302 (W4001)		2017	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	3	32,759.00	Y		
2.4) 6,000 lb 1302 (W4001)		2018	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	3	33,414.00	Y		
2.4) 6,000 lb 1302 (W4001)		2019	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	5	33,883.00	Y		
2.5) 4,000 lb 1305 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	3	29,590.00	Y		
2.5) 4,000 lb 1305 (W4001)		2018	Hyster / CA	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	2	30,182.00	Y		
2.5) 4,000 lb 1305 (W4001)		2019	Hyster / CA	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	4	30,605.00	Y		
2.6) 6,000 lb 1305 (W4001)		2017	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	6	32,670.00	Y		
2.6) 6,000 lb 1305 (W4001)		2018	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	5	33,323.00	Y		
2.6) 6,000 lb 1305 (W4001)		2019	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	4	33,824.00	Y		
2.7) 8,000 lb 1305 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Oct 2016	May 2017	1	36,465.00	Y		
2.8) 4,000 lb 1320 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	2	28,736.00	Y		
2.9) 4,000 lb 1325 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Oct 2016	May 2017	2	29,203.00	Y		
2.9) 4,000 lb 1325 (W4001)		2018	Hyster / CA	C / FP	DSC Philadelphia	Oct 2017	May 2018	5	29,787.00	Y		
2.9) 4,000 lb 1325 (W4001)		2019	Hyster / CA	C / FP	DSC Philadelphia	Oct 2018	May 2019	3	30,205.00	Y		
2.10) 6,000 lb 1325 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Oct 2016	May 2017	1	36,465.00	Y		
2.10) 6,000 lb 1325 (W4001)		2018	Hyster / CA	C / FP	DSC Philadelphia	Oct 2017	May 2018	2	37,194.00	Y		
2.10) 6,000 lb 1325 (W4001)		2019	Hyster / CA	C / FP	DSC Philadelphia	Oct 2018	May 2019	2	37,715.00	Y		
2.11) 4,000 lb 1330 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Dec 2016	May 2017	8	38,276.00	Y		
2.12) 6,000 lb 1330 (W4001)		2017	NACCO / OH	C / FP	DSC Philadelphia	Dec 2016	May 2017	29	32,626.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1			P-1 Line Item Number / Title: 7025 / Supply Equipment					Aggregated Items: Supply Equipment (Materials Handling Equipment)				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.12) 6,000 lb 1330 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Dec 2017	May 2018	30	33,279.00	Y		
2.12) 6,000 lb 1330 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Dec 2018	May 2019	29	33,745.00	Y		
2.13) 10,000 lb 1340 (W4001)		2017	NACCO / OH	C / FP	DSC Philadelphia	Nov 2016	Jul 2017	8	65,126.00	Y		
2.13) 10,000 lb 1340 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Nov 2017	Jul 2018	4	66,429.00	Y		
2.13) 10,000 lb 1340 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	6	67,360.00	Y		
2.14) 15,000 lb 1340 (W4001)		2017	NACCO / OH	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	17	70,183.00	Y		
2.14) 15,000 lb 1340 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	10	71,587.00	Y		
2.14) 15,000 lb 1340 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	11	72,590.00	Y		
2.15) 20,000 lb 1340 (W4001)		2017	NACCO / OH	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	1	130,089.00	Y		
2.15) 20,000 lb 1340 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Nov 2017	Jul 2018	2	132,690.00	Y		
2.15) 20,000 lb 1340 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	3	134,550.00	Y		
2.16) 20,000 lb 1340 (W4001) Shipboard		2017	Wesley / GA	C / FP	DSC Philadelphia	Dec 2016	Aug 2017	1	159,913.00	Y		
2.16) 20,000 lb 1340 (W4001) Shipboard		2019	Wesley / GA	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	5	165,397.00	Y		
2.17) 25,000 lb 1340 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Nov 2016	Jul 2017	2	160,357.00	Y		
2.18) 34,000 lb 1340 (W4001)		2017	Kalmar / TX	C / FP	DSC Philadelphia	Nov 2016	Jul 2017	1	164,917.00	Y		
2.18) 34,000 lb 1340 (W4001)		2018	Kalmar / TX	C / FP	DSC Philadelphia	Jan 2018	Sep 2018	2	168,216.00	Y		
2.18) 34,000 lb 1340 (W4001)		2019	Kalmar / TX	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	4	170,573.00	Y		
2.19) 10,000 lb 1343 (W4001)		2017	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	2	82,180.00	Y		
2.19) 10,000 lb 1343 (W4001)		2018	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Jan 2018	Aug 2018	6	83,906.00	Y		
2.19) 10,000 lb 1343 (W4001)		2019	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	5	85,082.00	Y		
2.20) 3,000 lb 1350 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	1	34,771.00	Y		
2.21) 6,000 lb 1350 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Dec 2016	Jun 2017	1	41,062.00	Y		
2.22) 6,000 lb 1350 (W4001) Shipboard		2017	Hyster / CA	C / FP	DSC Philadelphia	Dec 2016	Jun 2017	5	59,503.00	Y		
2.22) 6,000 lb 1350 (W4001) Shipboard		2018	Hyster / CA	C / FP	DSC Philadelphia	Nov 2017	May 2018	5	60,693.00	Y		
2.22) 6,000 lb 1350 (W4001) Shipboard		2019	Hyster / CA	C / FP	DSC Philadelphia	Nov 2018	May 2019	2	61,543.00	Y		
2.23) 6,000 lb 1351 (W4001) Shipboard		2017	Hyster / CA	C / FP	DSC Philadelphia	Nov 2016	Jul 2017	6	79,270.00	Y		
2.23) 6,000 lb 1351 (W4001) Shipboard		2018	Hyster / CA	C / FP	DSC Philadelphia	Mar 2018	Nov 2018	34	80,855.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1			P-1 Line Item Number / Title: 7025 / Supply Equipment						Aggregated Items: Supply Equipment (Materials Handling Equipment)			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.23) 6,000 lb 1351 (W4001) Shipboard		2019	Hyster / CA	C / FP	DSC Philadelphia	Oct 2018	Jun 2019	11	82,230.00	Y		
2.24) 4,000 lb 1370 (W4001)		2017	NACCO / OH	C / FP	DSC Philadelphia	Dec 2016	Jun 2017	8	28,840.00	Y		
2.24) 4,000 lb 1370 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	9	29,417.00	Y		
2.24) 4,000 lb 1370 (W4001)		2019	NACCO / OH	C / TBD	DSC Philadelphia	Nov 2018	Jun 2019	7	29,829.00	Y		
2.25) 6,000 lb 1370 (W4001)		2017	NACCO / OH	C / FP	DSC Philadelphia	Dec 2016	Jul 2017	4	34,919.00	Y		
2.25) 6,000 lb 1370 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Jan 2018	Aug 2018	5	35,617.00	Y		
2.25) 6,000 lb 1370 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	8	36,116.00	Y		
2.26) 4,000 lb 1370 (W4001) Shipboard		2017	Wesley / GA	C / FP	DSC Philadelphia	Dec 2016	Aug 2017	26	67,718.00	Y		
2.26) 4,000 lb 1370 (W4001) Shipboard		2018	Wesley / GA	C / FP	DSC Philadelphia	Dec 2017	Aug 2018	35	69,072.00	Y		
2.26) 4,000 lb 1370 (W4001) Shipboard		2019	Wesley / GA	C / FP	DSC Philadelphia	Dec 2018	Aug 2019	16	70,040.00	Y		
2.27) 4,000 lb 1371 (W4001)		2017	NAACO / OH	C / FP	DSC Philadelphia	Nov 2016	Apr 2017	8	38,539.00	Y		
2.28) 6,000 lb 1380 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	1	34,919.00	Y		
2.29) 3,000 lb 1390 (W4001)		2017	NACCO / OH	C / FP	DSC Philadelphia	Dec 2016	Jun 2017	1	37,192.00	Y		
2.31) 4,000 lb 1390 (W4001) Shipboard		2018	Wesley / GA	C / FP	DSC Philadelphia	Mar 2018	Dec 2018	35	118,091.00	Y		
2.31) 4,000 lb 1390 (W4001) Shipboard		2019	Wesley / GA	C / FP	DSC Philadelphia	Nov 2018	Aug 2019	25	119,745.00	Y		
2.32) 6,000 lb 1820 (W4001)		2017	Lifeking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2016	Jul 2017	3	154,757.00	Y		
2.33) 10,000 lb 1820 (W4001) Shipboard		2018	Wesley / GA	C / FP	DSC Philadelphia	Mar 2018	Oct 2018	1	193,847.00	Y		
2.34) 10,000 lb 1823 (W4001)		2017	Hyster / CA	C / FP	DSC Philadelphia	Dec 2016	May 2017	1	180,760.00	Y		
2.35) 4,000 lb 1100 (W4003)		2017	Raymond / CA	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	2	30,404.00	Y		
2.36) 4,000 lb 1125 (W4003)		2017	NACCO / OH	C / FP	DSC Philadelphia	Dec 2016	Aug 2017	2	42,272.00	Y		
2.36) 4,000 lb 1125 (W4003)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	2	43,550.00	Y		
2.37) 20,000 lb 1200 (W4004) Shipboard		2018	Hyster / CA	C / FP	DSC Philadelphia	Mar 2018	Dec 2018	2	165,995.00	Y		
2.37) 20,000 lb 1200 (W4004) Shipboard		2019	Hyster / CA	C / FP	DSC Philadelphia	Oct 2018	Jul 2019	5	168,320.00	Y		
2.38) 30,000 lb 1200 (W4004) Shipboard		2018	TOYOTA MOTOR CO / California	C / FP	DSC Philadelphia	Mar 2018	Dec 2018	4	296,514.00	Y		
2.38) 30,000 lb 1200 (W4004) Shipboard		2019	TOYOTA MOTOR CO / California	C / FP	DSC Philadelphia	Oct 2018	Jul 2019	3	300,668.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1			P-1 Line Item Number / Title: 7025 / Supply Equipment						Aggregated Items: Supply Equipment (Materials Handling Equipment)			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.39) 4,000 lb 1400 (W4005)		2017	NAACO / OH	C / FP	DSC Philadelphia	Nov 2016	Jul 2017	1	31,261.00	Y		
2.40) 6,000 lb 1610 (W4006)		2017	Wesley / GA	C / FP	DSC Philadelphia	Jul 2017	Dec 2017	2	24,845.00	Y		
2.41) 6,000 lb 1610 (W4006) Shipboard		2017	Wesley / GA	C / FP	DSC Philadelphia	Dec 2016	Jul 2017	1	24,845.00	Y		
2.42) 6,000 lb Manual Pallet Jack (Shipboard)		2017	Wesley / GA	C / FP	DSC Philadelphia	Jan 2017	Jun 2017	30	6,069.00	Y		
2.42) 6,000 lb Manual Pallet Jack (Shipboard)		2018	Wesley / GA	C / FP	DSC Philadelphia	Jan 2018	Jun 2018	15	6,190.00	Y		
2.42) 6,000 lb Manual Pallet Jack (Shipboard)		2019	Wesley / GA	C / FP	DSC Philadelphia	Jan 2019	Jun 2019	8	6,277.00	Y		
3) New Requirements (Expeditionary)												
3.1) 11,000lb 1820 MMV (W4001) Reserve Forces		2017	Osh Kosh Corp / Osh Kosh, WI	C / FP	DSC Philadelphia	Nov 2016	Jun 2017	4	160,814.00	Y		
4) Replacement Program (Expeditionary)												
4.1) 4,000lb 1300 (W4001) Reserve Forces		2017	Toyota / OH	C / FP	DSC Philadelphia	Dec 2016	Jun 2017	2	27,824.00	Y		
4.2) 4,000lb 1370 (W4001) Expeditionary		2017	Wesley / GA	C / FP	DSC Philadelphia	Dec 2016	Jun 2017	12	28,783.00	Y		
4.3) 20,000lb 1820 (W4001) Expeditionary		2017	JLG / Pennsylvania	C / FP	DSC Philadelphia	Dec 2016	Aug 2017	4	311,233.00	Y		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1						P-1 Line Item Number / Title: 7025 / Supply Equipment						Item Number / Title [DODIC]: 1 / Supply Equipment (Other Supply Support Equipment)						
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				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				0.000		4.574		3.726		5.000		0.000		5.000				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000		4.574		3.726		5.000		0.000		5.000				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				0.000		4.574		3.726		5.000		0.000		5.000				
(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>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Other Program Cost																		
1.1) Navy Cash Program	-	-	0.000	-	-	4.506	-	-	3.305	-	-	3.192	-	-	0.000	-	-	3.192
1.2) Automatic Identification Technology (AIT)	-	-	0.000	-	-	0.068	-	-	0.421	-	-	0.408	-	-	0.000	-	-	0.408
1.3) Collateral Equipment (Classified Program PBD700A2 CON-10543)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.400	-	-	0.000	-	-	1.400
Subtotal: Support - Other Program Cost	-	-	0.000	-	-	4.574	-	-	3.726	-	-	5.000	-	-	0.000	-	-	5.000
Gross/Weapon System Cost	-	-	0.000	-	-	4.574	-	-	3.726	-	-	5.000	-	-	0.000	-	-	5.000

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment	P-1 Line Item Number / Title: 7066 / First Destination Transportation

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>)	36.618	5.115	5.992	5.375	0.500	5.875	5.455	5.608	5.715	5.831	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	36.618	5.115	5.992	5.375	0.500	5.875	5.455	5.608	5.715	5.831	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	36.618	5.115	5.992	5.375	0.500	5.875	5.455	5.608	5.715	5.831	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 program funds the procurement of First Destination Transportation services providing for the movement of newly procured equipment from the contractor's plant to the initial point of receipt by the government. Major using activities include ships, systems commands, and overseas support activities.

Prior to FY2014, all funds were allocated to and managed by Naval Supply Systems Command (NAVSUP). Starting in FY2014, funds have been decentralized for allocation, management and oversight by the following commands: Naval Air Systems Command (NAVAIR), Naval Supply Systems Command (NAVSUP), Naval Sea Systems Command (NAVSEA), Naval Facilities Engineering Command (NAVFAC), Strategic Systems Programs(SSP) and Space & Naval Warfare Systems Command (SPAWAR).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment						P-1 Line Item Number / Title: 7066 / First Destination Transportation				
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-40a	First Destination Transportation				- / 36.618	- / 5.115	- / 5.992	- / 5.375	- / 0.500	- / 5.875
P-40	Total Gross/Weapon System Cost				- / 36.618	- / 5.115	- / 5.992	- / 5.375	- / 0.500	- / 5.875
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: OCO: Included in this request is FY 2018 Overseas Contingency Operations (OCO) funding for Operation Freedom's Sentinel (OFS-T) in the amount of \$0.035M for Isa Air Base, Bahrain and for Operation Enduring Freedom - Horn of Africa (OEF-H) in the amount of \$0.385M for Camp Lemonnier, Djibouti, Funds are requested for shipment of Other Procurement, Navy (OPN) General Purpose Trucks (LI 6007) and Fire Fighting Equipment (LI 6027) OCO requirements identified in those LIs. Baseline First Destination Transportation funding is not sufficient to move OCO equipment to the designated location once it is available from the manufacturer.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1							P-1 Line Item Number / Title: 7066 / First Destination Transportation								Aggregated Items Title: First Destination Transportation					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) First Destination Transportation																				
1.1) First Destination Transportation - NAVSUP	A		-	-	18.720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) First Destination Transportation - Strategic Systems Programs (SSP)	A		-	-	0.579	-	-	0.114	-	-	0.215	-	-	0.203	-	-	-	-	-	0.203
1.3) First Destination Transportation - SPAWAR	A		-	-	2.726	-	-	0.714	-	-	0.769	-	-	0.601	-	-	-	-	-	0.601
1.4) First Destination Transportation - NAVFAC	A		-	-	3.280	-	-	0.899	-	-	1.386	-	-	0.939	-	-	0.500	-	-	1.439
1.5) First Destination Transportation - NAVAIR	A		-	-	1.940	-	-	0.475	-	-	0.508	-	-	0.511	-	-	-	-	-	0.511
1.6) First Destination Transportation - NAVSEA	A		-	-	9.373	-	-	2.913	-	-	3.114	-	-	3.121	-	-	-	-	-	3.121
Subtotal: 1) First Destination Transportation			-	-	36.618	-	-	5.115	-	-	5.992	-	-	5.375	-	-	0.500	-	-	5.875
Total			-	-	36.618	-	-	5.115	-	-	5.992	-	-	5.375	-	-	0.500	-	-	5.875

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

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment	P-1 Line Item Number / Title: 7069 / Special Purpose Supply 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>)	3,505.056	295.471	482.916	580.371	0.000	580.371	668.058	738.642	797.602	960.128	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,505.056	295.471	482.916	580.371	0.000	580.371	668.058	738.642	797.602	960.128	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,505.056	295.471	482.916	580.371	0.000	580.371	668.058	738.642	797.602	960.128	Continuing	Continuing
(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:

The funding reported in this line item is classified and is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

[P40A / CLASSIFIED]: The Cost Element labeled "Classified" supports classified efforts. Details with respect to these efforts are reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment						P-1 Line Item Number / Title: 7069 / Special Purpose Supply 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-40a	Special Purpose Supply Systems				- / 3,505.056	- / 295.471	- / 482.916	- / 580.371	- / -	- / 580.371
P-40	Total Gross/Weapon System Cost				- / 3,505.056	- / 295.471	- / 482.916	- / 580.371	- / 0.000	- / 580.371
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1								P-1 Line Item Number / Title: 7069 / Special Purpose Supply Systems							Aggregated Items Title: Special Purpose Supply Systems						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
1) Special Purpose Supply Systems																					
1) CLASSIFIED		A		-	-	3,505.056	-	-	295.471	-	-	482.916	-	-	580.371	-	-	-	-	-	580.371
Subtotal: 1) Special Purpose Supply Systems			-	-	3,505.056	-	-	295.471	-	-	482.916	-	-	580.371	-	-	-	-	-	580.371	
Total			-	-	3,505.056	-	-	295.471	-	-	482.916	-	-	580.371	-	-	-	-	-	580.371	

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices							P-1 Line Item Number / Title: 8081 / Training Support 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: 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>)	87.714	0.000	0.000	3.400	0.000	3.400	3.600	0.000	0.000	0.000	-	94.714
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	87.714	0.000	0.000	3.400	0.000	3.400	3.600	0.000	0.000	0.000	-	94.714
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	87.714	0.000	0.000	3.400	0.000	3.400	3.600	0.000	0.000	0.000	-	94.714
<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 request represent new start efforts associated with Battle Stations-21.

[Battle Stations-21 (BST-21)]: BST-21 is a facility that represents a 210-foot-long Arleigh Burke class destroyer and is the culminating training event for Recruit Training Command recruits to participate in a 12-hour simulation of 4 General Quarters scenarios and 13 shipboard scenarios that include engineering, lookout, and mass casualty drills. FY19 OPN funding would aid in the replacement of worn, outdated or obsolete equipment and technology, termed as life-cycle replacement. During a February 2015 Life-Cycle Sustainment assessment of BST-21, NAWCTSD identified two OPN issues: Information Assurance/Cybersecurity and Tech Refresh/Upgrades.

- Specifically, FY19 OPN funding would provide upgrades to the audiovisual systems, operating equipment, WIFI/LAN systems, and software modifications. FY20 OPN would provide upgrades to operating equipment, software modifications, and UPS subsystem.
- Commander, Naval Education and Training Command stated BST-21 is mandatory graduation requirement, and BST-21 is a Fleet requirement for Block 0 of the Ready, Relevant Learning initiative.

[P40A / TRAINING SUPPORT EQUIPMENT]: Funding provides for the training support equipment / systems used in support of and connected to the Navy Continuous Training Environment (NCTE) as well as all of the equipment / systems required to support the Fleet's Live, Virtual, and Constructive (LVC) training capability. The Fleet's LVC training capability includes all training systems, network equipment, IT equipment, communications equipment, C4I systems, and training devices used in the U.S. Navy.

[P40A / AA800 - LIFE CYCLE MANAGEMENT (NCTE)]: Navy Continuous Training Environment (NCTE): The NCTE is a distributed training architecture and network that interconnects eighty-three plus (83+) Navy, Joint and Coalition training sites. To maximize return on the training dollar, reduce overall operating expense, and support the global live, virtual, and constructive nature of the NCTE, the suite of equipment must be continuously maintained, upgraded and keep pace with mandated DISA and DoD requirements. Planned periodic replacement of hardware is essential to keep pace with technology upgrades, allow virtualization of the NCTE infrastructure, and end of life issues associated with existing equipment. The upgrades/spare parts are vital to the Fleet's LVC training capability used by the U.S. Navy and Joint Services to prepare for deployment.

[P40A / AA800 - BALLISTIC MISSILE DEFENSE (BMD)]: Ballistic Missile Defense (BMD) training equipment is required for the Navy to conduct BMD synthetic training events (BMDEX, Fleet Synthetic Training (FST) and FST at Sea) and shipboard qualification / certification events. The Navy has BMD-capable ships that must be adequately trained to meet operational BMD mission tasking to employ weapons systems, and to attain the BMD qualification required for deployment certification. TYCOMs, Numbered Fleet Commanders (NFC), and Afloat Training Groups (ATG) / Tactical Training Groups are responsible for the

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8081 / Training Support 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: N/A		
training, qualification, and certification of BMD ships and units. The integrated/advanced phase training and BMD qualification is a quarterly unit training requirement. This funds necessary equipment to support BMD training. The Fleet's LVC training capability funds the necessary equipment to support BMD training used by the U.S. Navy.		
[P40A / AA800 - BMD FST AT SEA]: Ballistic Missile Defense (BMD) Fleet Synthetic Training (FST) at Sea: Funding required to provide the capability to conduct integrated Live, Virtual and Constructive (LVC) single or multi-ship exercises with ships at sea using the Navy Continuous Training Environment (NCTE). This capability will support BMD and Integrated Air Missile Defense (IAMD) mission area Fleet sustainment training and mission rehearsal in theater, allow ships to participate in COCOM/Navy Component Commander mandated BMD/IAMD exercises while pierside or underway, as well as enhance BMD/IAMD training objective accomplishment in current FRTP underway training events such as COMPTUEX and JTFEX. The NCTE and FST directly support Fleet training readiness and strike group and BMD platform deployment certifications. The Fleet's LVC training capability funds the necessary equipment to support BMD FST at Sea training used by the U.S. Navy.		
[P40A / AA800 - ANTI-ACCESS AREA DENIAL (A2AD)]: Anti-Access Area Denial (A2AD) capability: Funds required to provide the NCTE architecture the systems required to incorporate specific technologies, C4ISR stimulation capabilities to train Fleet units in Anti-Access Area Denial (A2AD) Tactics, Techniques and Procedures (TTPs). The Fleet's LVC training capability funds the necessary equipment to support A2AD training used by the U.S. Navy.		
[P40A / AA800 - COMMON DATA LINK (CDL)]: Common Data Link (CDL): Funds required to procure systems required to support CDL architecture to provide realistic adversary and own-force presentations that allows CDL platforms and operators to coordinate and operate in a realistic manner utilizing real-world systems and protocols. Advanced training capabilities will permit development and certification of operational proficiency in Surface Warfare (SUW), Anti-Submarine Warfare (ASW) and Electronic Warfare (EW). The capability transports images and full motion video and supports intelligence gathering and exploitation training objectives. The Fleet's LVC training capability funds the necessary equipment to support CDL training used by the U.S. Navy.		
[P40A / AA800 - DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS]: Digital Radio Management System (DRMS) Wholeness: Funds required to provide expanded capacity, improved reliability, and increased RF spectrum to live voice communications in the Digital Radio Management System (DRMS) for Tactical Training Ranges (TTR) and NCTE. Provide a single FST communications system enabling realistic tactical communications across all warfare areas, classification levels, and releasable domains. The Fleet's LVC training capabily funds the necessary equipment to support DRMS Wholeness training used by the U.S. Navy.		
[P40A / AA800 - NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA)]: Naval Integrated Fire Control - Counter Air (NIFC-CA): Funds required to meet the goal of Naval Integrated Fire Control - Counter Air (NIFC-CA) for Fleet Synthetic Training (FST) that includes a Cooperative Engagement Capability (CEC) training solution, shore side constructive CEC units, and low fidelity E-2D virtual distributed aircrew training systems. The capabilities will supplement and integrate existing platform-level program of record solutions and is complementary to NAVAIR and NAVSEA efforts to deliver From the Sea (FTS) training capabilities. The Fleet's LVC training capability funds the necessary equipment to support NIFC-CA training used by the U.S. Navy.		
[P40A / AA800 - NCTE DISA COMPLIANCE]: Navy Continuous Training Environment (NCTE) Defense Information Security Agency (DISA) Compliance: Funds the transition of the NCTE from Asynchronous Transfer Mode (ATM) to Internet Protocol (IP) technology, as mandated by DISA. Supports simulators/simulation use in the Basic-through-Integrated phases of the Fleet Response Training Plan (FRTP).		
[P40A / AA800 - AEGIS ASHORE FLEET TRAINING]: Aegis Ashore (AA) Fleet Training: Funding required for Fleet Training Instructor support and Navy Continuous Training Environment connectivity and technical support for Aegis Ashore CONUS-based trainer. Funding will support Phased Adaptive Approach for missile defense of Europe		
[P40A / AA800 - FDNF EUROPE FLEET TRAINING]: Forward Deployed Naval Forces (FDNF) Europe Fleet Training: Funding required for Fleet Training Instructor support and Navy Continuous Training Environment connectivity for Forward Deployed Naval forces in Europe. Provides technical support and operational assistance of the deployed NCTE node. Funding will support Phased Adaptive Approach for missile defense of Europe.		
[P40A / H0004 - VBSS TRAINING CRAFT]: Visit, Board, Search, and Seizure (VBSS) Training Craft: Provide operational commander a capability to conduct VBSS and Maritime Interception Operations (MIO) from an Afloat Staging Base in conjunction with an overwatch craft and other friendly forces. Service life is 7 years.		
[P40A / YP001 - BOATS]: Boats: Funds procurement of service craft and small boats for training use. Planned procurements include:		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8081 / Training Support 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: N/A		
FY-13 - One 27FT Boston Whaler small boats used for EOD underwater training @ NAVSCOLEOD. FY-14 - Two 7M RHIB small boats used for EOD underwater training @ NAVSCOLEOD.		
[P40A / YP300 - GUARD TOWERS]: Guard Towers (Scenario Training Devices at both SERE East and SERE West locations): The Guard Towers used in support of delivering the resistance and escape phase of the training serves three separate functions. It is the command and control point for managing the training being conducted while the students are in the POW camp; it serves as the primary safety observation point for the training and is primary focal point for the POW camp scenario driven training. The tower is in poor condition and needs to be replaced.		
[P40A / YPYAV - AUDIO/VISUAL EQUIPMENT FOR JPME]: Naval War College (NWC) requires audio visual educational and research support equipment to complete P103 MILCON conversion of current Library and underground garage parking spaces of Hewitt Hall into a integrated learning commons for the Naval War College, CNO's Strategic Studies Group and Command Leadership School. This \$12M MILCON project is in direct response to the repeat accreditation findings by Chairman Joint Chiefs of Staff that NWC has inadequate spaces to support to student study and collaboration spaces. Additionally CNIC has previously documented inadequate NWC facilities space for its mission requirements. The project is also required because the library is considered a key mission deficit area, as cited by the CJCS during the last two accreditation Inspection. To complete the renovations, the P-103 requires \$376K of A/V capabilities to make the Library and Learning commons spaces usable as intended for the MILCON renovation. A modern higher education institution must support the use of the most current instructional and pedagogical tools and technology to deliver and support a 21st century curriculum for the proper development of 21st century leaders.		
[P40A / YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS]: Naval War College (NWC) requires audio visual educational and research support equipment to complete P103 MILCON conversion of current Library and underground garage parking spaces of Hewitt Hall into a integrated learning commons for the Naval War College, CNO's Strategic Studies Group and Command Leadership School. This \$12M MILCON project is in direct response to the repeat accreditation findings by Chairman Joint Chiefs of Staff that NWC has inadequate spaces to support to student study and collaboration spaces. Additionally CNIC has previously documented inadequate NWC facilities space for its mission requirements. The project is also required because the library is considered a key mission deficit area, as cited by the CJCS during the last two accreditation Inspection. To complete the renovations, the P-103 requires \$124K of A/V capabilities to make the Library and Learning commons spaces usable as intended for the MILCON renovation. A modern higher education institution must support the use of the most current instructional and pedagogical tools and technology to deliver and support a 21st century curriculum for the proper development of 21st century leaders.		
[P40A / YPYIP - NPS- INTERNET PROTOCOL VERSION 6 (IPv6) INITIATIVE]: Upgrade Network, Telephone Switching and Education Delivery Systems to attain Internet Protocol version 6 (IPv6) compliance as mandated by OMB Memo to CIOs: Transition to IPv6 September 28, 2010 and DoD and DoN directives. This upgrade leverages BUPERS/Naval Post Graduate School's (NPS) lifecycle replacement schedule to meet the mandates. The current network electronics, telephone switch, and educational delivery systems have either reached or have exceeded end-of life in FY14. These devices will be IPv6 capable and allow implementation of the external facing compliance requirement as well as establishing the platform to fully implement IPv6 capability on the internal network for security, applications and web services.		
[P40A / YPYTD - TRAINING DELIVERY SERVICES (TDS)]: Virtual Desktop Infrastructure Initiative. The training enterprise is moving forward with implementing more efficient technologies to meet the training delivery mission via a virtual desktop infrastructure solution. The virtual desktop solution will be implemented over the next several years at each location in lieu of conducting the traditional one-for-one workstation refresh. The goals and benefits of VDI are to establish an agile, sustainable enterprise training delivery environment; standardize the processes, services and technology used to deliver training; improve the enterprise security posture; refresh outdated electronic classroom workstations and operating systems; and provide a solution that enables a streamlined, centralized IT workforce.		
[P40A / ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)]: NETC requires OPN funding in support of meeting the enterprise training delivery operations across the enterprise. Funds are utilized on virtual solutions that enable NETC to meet the DoD/DoN requirements of consolidating footprint while ensuring optimized performance of the desktops and servers in support of the Sailor 2025 and Ready, Relevant Learning.		
[P40A / YP010 - CONTINUITY OF OPERATIONS (COOP)]: Continuity of Operations (COOP): Existing IT infrastructure for training applications is insufficient to support the projected growth in content, users, and requirements for continuity of operations. Funds will be used to expand the capacity of servers, storage, and networks in addition to providing fail-over capability in the data center for storage of data and application code at an alternate site. These systems are vital to the operational readiness and effectiveness of education and training. Failure to make these investments could lead to immediate and sustained loss of mission effectiveness.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8081 / Training Support 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: N/A		
[P40A / BATTLE STATIONS-21 (BST-21)]: BST-21 is a facility that represents a 210-foot-long Arleigh Burke class destroyer and is the culminating training event for Recruit Training Command recruits to participate in a 12-hour simulation of 4 General Quarters scenarios and 13 shipboard scenarios that include engineering, lookout, and mass casualty drills. FY19 OPN funding would aid in the replacement of worn, outdated or obsolete equipment and technology, termed as life-cycle replacement. During a February 2015 Life-Cycle Sustainment assessment of BST-21, NAWCTSD identified two OPN issues: Information Assurance/Cybersecurity and Tech Refresh/Upgrades. - Specifically, FY19 OPN funding would provide upgrades to the audiovisual systems, operating equipment, WIFI/LAN systems, and software modifications. - Commander, Naval Education and Training Command stated BST-21 is mandatory graduation requirement, and BST-21 is a Fleet requirement for Block 0 of the Ready, Relevant Learning initiative. [P40A / BST-21 AUDIOVISUAL SYSTEMS]: Funding provides for upgrades to Audiovisual Systems used to train recruits. [P40A / BST-21 WIFI/LAN HARDWARE]: Funding provides for upgrades to BST-21 WIFI/LAN Hardware. [P40A / BST-21 INFORMATION ASSURANCE SOFTWARE MODIFICATION]: Funding provides for BST-21 Information Assurance Software. [P40A / BST-21 UNIVERSAL POWER SUPPLY SUBSYSTEM]: Universal Power Supply for realistic Battle Stations Ship trainer. [P40A / BST-21 OPERATING EQUIPMENT]: Funding provides for various equipment associated with operating systems as they relate to BST-21.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices					P-1 Line Item Number / Title: 8081 / Training Support 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: 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-40a	Training Support Equipment	P-5a, P-21			- / 87.714	- / -	- / -	- / 3.400	- / -	- / 3.400
P-40	Total Gross/Weapon System Cost				- / 87.714	- / 0.000	- / 0.000	- / 3.400	- / 0.000	- / 3.400
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY19 request represent new start efforts associated with Battle Stations-21.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1							P-1 Line Item Number / Title: 8081 / Training Support Equipment								Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) TRAINING SUPPORT EQUIPMENT																				
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE) ^(†)	A		1,867K	6	11.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD) ^(†)	A		2,854K	5	14.271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) AA800 - BMD FST AT SEA ^(†)	A		116,000.00	3	0.348	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) AA800 - ANTI-ACCESS AREA DENIAL (A2AD) ^(†)	A		574,000.00	1	0.574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) AA800 - COMMON DATA LINK (CDL) ^(†)	A		450,000.00	1	0.450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) AA800 - DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS ^(†)	A		970,000.00	2	1.940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) AA800 - NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA) ^(†)	A		500,000.00	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8) AA800 - NCTE DISA COMPLIANCE ^(†)	A		7,827K	3	23.481	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) AA800 - AEGIS ASHORE FLEET TRAINING ^(†)	A		1,061K	2	2.122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) AA800 - FDNF EUROPE FLEET TRAINING ^(†)	A		4,800K	1	4.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) TRAINING SUPPORT EQUIPMENT			-	-	59.686	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) VBSS TRAINING CRAFT																				
2.1) H0004 - VBSS TRAINING CRAFT ^(†)	A		1,175K	2	2.350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) VBSS TRAINING CRAFT			-	-	2.350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) TRAINING SUPPORT EQUIP																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1						P-1 Line Item Number / Title: 8081 / Training Support Equipment						Aggregated Items Title: Training Support Equipment									
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
3.1) YP001 - BOATS ^(†)	A		302,000.00	5	1.510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.2) YP300 - GUARD TOWERS ^(†)	A		356,000.00	1	0.356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.3) YPYAV - AUDIO/VISUAL EQUIPMENT FOR JPME ^(†)	A		376,000.00	1	0.376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS ^(†)	A		124,000.00	1	0.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) TRAINING SUPPORT EQUIP			-	-	2.366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) YPYIP - NPS- INTERNET PROTOCOL VERSION 6 (IPv6) INITIATIVE																					
4.1) PAN-PA-705-TP (THREAT PREVENTION SUBSCRIPTION) ^(†)	A		51,000.00	1	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.2) PAN-SVC-PREM-7050-PA (PREMIUM SUPPORT) ^(†)	A		48,000.00	1	0.048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.3) IPV6 APPLIANCE ACQUISITION ^(†)	A		177,000.00	1	0.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.4) VOIP DEPLOYMENT ^(†)	A		173,000.00	1	0.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.5) PYTHON STUDENT INFO SYSTEM MAINTENANCE ^(†)	A		18,000.00	12	0.216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.6) PYTHON STUDENT INFO SYSTEM REWRITE ^(†)	A		108,000.00	12	1.296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.7) PAN-PA-7050-AC PALO ALTO NETWORKS PA ^(†)	A		106,000.00	1	0.106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.8) PAN-PA-7000-20G-NPC (NETWORK PROCESSING CARD) ^(†)	A		128,000.00	2	0.256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1							P-1 Line Item Number / Title: 8081 / Training Support Equipment								Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
4.9) PAN-EDU-ONSITE PALO ALTO NETWORKS ^(†)	A		177,000.00	1	0.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.10) CENIC UPGRADE NETWORKS OPTRONICS ^(†)	A		500,000.00	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.11) NETWORK REFRESH ^(†)	A		3,100K	1	3.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) YPYIP - NPS- INTERNET PROTOCOL VERSION 6 (IPv6) INITIATIVE			-	-	6.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																				
5.1) TRANET NETWORK (CISCO NETWORK SWITCHES/ ROUTERS) ^(†)	A		4,000.00	149	0.596	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2) ECR VDI/ VIRTUAL SERVER SVCS IMPLEMENTATION (CISCO NETWORK SWITCHES) ^(†)	A		5,127.27	220	1.128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.3) ECR VDI IMPLEMENTATION (ZERO CLIENT DEVICES) ^(†)	A		400.00	3,105	1.242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) ECR VDI/ VIRTUAL SERVER SERVICES IMPLEMENTATION (SERVER HARDWARE) ^(†)	A		10,236.36	110	1.126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ^(†)	A		14,000.00	160	2.240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.6) ECR VDI IMPLEMENTATION (SERVER SOFTWARE) ^(†)	A		1,100.00	100	0.110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.7) VDI - STORAGE ENVIRONMENT ^(†)	A		680,000.00	1	0.680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.8) VDI - SERVER INFRASTRUCTURE ^(†)	A		752,000.00	1	0.752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1						P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
5.9) VDI - NETWORKING ENVIRONMENT ^(†)	A		109,000.00	1	0.109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.10) VDI - MICROSOFT ENVIRONMENT ^(†)	A		1,089K	1	1.089	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.11) VDI - VIRTUAL ENVIRONMENT ^(†)	A		1,602K	1	1.602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.12) VDI - POWER SUPPLY ^(†)	A		38,000.00	1	0.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.13) VDI - ZERO CLIENTS ^(†)	A		1,412K	1	1.412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 5) YPYTD - TRAINING DELIVERY SERVICES (TDS)			-	-	12.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6) YP010 - CONTINUITY OF OPERATIONS (COOP)																					
6.1) COOP - ROUTER/ SWITCH-1 ^(†)	A		9,371.43	245	2.296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.2) COOP - ROUTER SWITCH-2 ^(†)	A		9,366.67	30	0.281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.3) COOP - ROUTER/SWITCH-3	A		9,377.78	45	0.422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.4) COOP - SAN NETWORK -1 ^(†)	A		9,375.00	96	0.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.5) COOP - SAN NETWORK-2 ^(†)	A		9,366.67	30	0.281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.6) COOP - TACLane ^(†)	A		14,526.32	19	0.276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.7) COOP - STORAGE ^(†)	A		20,320.00	25	0.508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.8) COOP - SOFTWARE ^(†)	A		19,000.00	3	0.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.9) COOP - NETWORKING INFRASTRUCTURE EQUIPMENT ^(†)	A		1,015.15	66	0.067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 6) YP010 - CONTINUITY OF OPERATIONS (COOP)			-	-	5.088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7) BATTLE STATIONS-21 (BST-21) ⁽¹⁾																					

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1								P-1 Line Item Number / Title: 8081 / Training Support Equipment							Aggregated Items Title: Training Support Equipment				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
7.1) BST-21 AUDIOVISUAL SYSTEMS ^(†)	A		-	-	-	-	-	-	-	-	-	1,400K	1	1.400	-	-	-	1,400K	1	1.400
7.2) BST-21 WIFI/LAN HARDWARE ^(†)	A		-	-	-	-	-	-	-	-	-	400,000.00	1	0.400	-	-	-	400,000.00	1	0.400
7.3) BST-21 INFORMATION ASSURANCE SOFTWARE MODIFICATION ^(†)	A		-	-	-	-	-	-	-	-	-	300,000.00	1	0.300	-	-	-	300,000.00	1	0.300
7.5) BST-21 OPERATING EQUIPMENT ^(†)	A		-	-	-	-	-	-	-	-	-	1,300K	1	1.300	-	-	-	1,300K	1	1.300
Subtotal: 7) BATTLE STATIONS-21 (BST-21)			-	-	0.000	-	-	-	-	-	-	-	-	3.400	-	-	-	-	-	3.400
Total			-	-	87.714	-	-	-	-	-	-	-	-	3.400	-	-	-	-	-	3.400

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

(†) indicates the presence of a P-5a

Footnotes:

⁽¹⁾ BST-21 is a facility that represents a 210-foot-long Arleigh Burke class destroyer and is the culminating training event for Recruit Training Command recruits to participate in a 12-hour simulation of 4 General Quarters scenarios and 13 shipboard scenarios that include engineering, lookout, and mass casualty drills. FY19 OPN funding would aid in the replacement of worn, outdated or obsolete equipment and technology, termed as life-cycle replacement. During a February 2015 Life-Cycle Sustainment assessment of BST-21, NAWCTSD identified two OPN issues: Information Assurance/Cybersecurity and Tech Refresh/Upgrades. - Specifically, FY19 OPN funding would provide upgrades to the audiovisual systems, operating equipment, WIFI/LAN systems, and software modifications. - Commander, Naval Education and Training Command stated BST-21 is mandatory graduation requirement, and BST-21 is a Fleet requirement for Block 0 of the Ready, Relevant Learning initiative.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) TRAINING SUPPORT EQUIPMENT												
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE)		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Nov 2012	Jan 2013	1	2,809K	N	Jan 2013	
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE)		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Sep 2014	Nov 2014	1	2,497K	N	Jan 2015	
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE)		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2014	Mar 2015	1	2,380K	N	May 2015	
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2015	Dec 2015	1	1,081K	N	Jan 2016	
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD)		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2012	Feb 2013	1	1,696K	N	Feb 2013	
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD)		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Jun 2014	Aug 2014	1	1,802K	N	Oct 2014	
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD)		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2014	Feb 2015	1	1,564K	N	Mar 2015	
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2015	Dec 2015	1	568,000.00	N	Jan 2016	
1.3) AA800 - BMD FST AT SEA		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Jan 2014	Mar 2014	1	50,000.00	N	Mar 2014	
1.3) AA800 - BMD FST AT SEA		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2014	Dec 2014	1	100,000.00	N	Jan 2015	
1.3) AA800 - BMD FST AT SEA		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2015	Dec 2015	1	198,000.00	N	Jan 2016	
1.4) AA800 - ANTI-ACCESS AREA DENIAL (A2AD)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Mar 2016	Mar 2016	1	574,000.00	N	Apr 2016	
1.5) AA800 - COMMON DATA LINK (CDL)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Mar 2016	Mar 2016	1	450,000.00	N	Apr 2016	
1.6) AA800 - DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Sep 2015	Sep 2015	1	825,000.00	N	Sep 2015	
1.6) AA800 - DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Mar 2016	Mar 2016	1	1,115K	N	Apr 2016	
1.7) AA800 - NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Mar 2016	Mar 2016	1	500,000.00	N	Apr 2016	
1.8) AA800 - NCTE DISA COMPLIANCE		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Apr 2013	Jun 2013	1	7,615K	N	Jun 2013	
1.8) AA800 - NCTE DISA COMPLIANCE		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2013	Oct 2014	1	7,924K	N	Jan 2014	

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.8) AA800 - NCTE DISA COMPLIANCE		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2014	Sep 2015	1	7,942K	N	Jan 2015	
1.9) AA800 - AEGIS ASHORE FLEET TRAINING		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Apr 2013	Jun 2013	1	322,000.00	N	Jul 2013	
1.9) AA800 - AEGIS ASHORE FLEET TRAINING		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Jan 2014	Mar 2014	1	1,800K	N	Apr 2014	
1.10) AA800 - FDNF EUROPE FLEET TRAINING		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Nov 2012	Jan 2013	1	4,800K	N	Feb 2013	
2) VBSS TRAINING CRAFT												
2.1) H0004 - VBSS TRAINING CRAFT		2014	USMI / Gulport, MS	C / FFP	NAVSEA	Aug 2014	Sep 2015	2	1,175K	N	Aug 2014	
3) TRAINING SUPPORT EQUIP												
3.1) YP001 - BOATS		2013	NAVSEA / Washington, DC	C / FFP	NAVSEA Washington DC	Feb 2013	Dec 2013	2	312,000.00	Y		Feb 2013
3.1) YP001 - BOATS		2014	NAVSEA / Washington, DC	C / FFP	NAVSEA	Nov 2014	May 2015	1	422,000.00	Y		Nov 2014
3.2) YP300 - GUARD TOWERS		2013	NSWC / NSWC	C / FP	NSWC	Jul 2013	Sep 2013	1	356,000.00	Y		Jun 2013
3.3) YPYAV - AUDIO/VISUAL EQUIPMENT FOR JPME		2015 ⁽²⁾	Unknown / Unknown	C / FFP	NAVSTA Newport	Mar 2015	Mar 2015	1	376,000.00	N	Dec 2014	
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS ^(†)		2015	TBD / New MFG - Loc	C / FFP	NAVSTA Newport	Sep 2015	Sep 2015	1	124,000.00	N	Oct 2015	
4) YPYIP - NPS- INTERNET PROTOCOL VERSION 6 (IPv6) INITIATIVE												
4.1) PAN-PA-705-TP (THREAT PREVENTION SUBSCRIPTION)		2015	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	51,000.00	N	Dec 2015	
4.2) PAN-SVC-PREM-7050-PA (PREMIUM SUPPORT)		2015	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	48,000.00	N	Dec 2015	
4.3) IPV6 APPLIANCE ACQUISITION		2015	TBD / UNKNOWN	C / TBD	** NO PCO **	Mar 2016	Mar 2016	1	177,000.00	N	Apr 2016	
4.4) VOIP DEPLOYMENT		2015	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	173,000.00	N	Oct 2015	
4.5) PYTHON STUDENT INFO SYSTEM MAINTENANCE		2015 ⁽³⁾	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	12	18,000.00	N	Dec 2015	
4.6) PYTHON STUDENT INFO SYSTEM REWRITE		2015 ⁽⁴⁾	Unknown / Unknown	TBD	TBD	Oct 2015	Oct 2015	12	108,000.00	N	Dec 2015	
4.7) PAN-PA-7050-AC PALO ALTO NETWORKS PA		2015 ⁽⁵⁾	Unknown / Unknown	TBD	TBD	Oct 2015	Oct 2015	1	106,000.00	N		
4.8) PAN-PA-7000-20G-NPC (NETWORK PROCESSING CARD)		2015	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	2	128,000.00	N	Dec 2015	
4.9) PAN-EDU-ONSITE PALO ALTO NETWORKS		2015 ⁽⁶⁾	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	1	177,000.00	N	Dec 2015	

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.10) CENIC UPGRADE NETWORKS OPTRONICS		2015 ⁽⁷⁾	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	1	500,000.00	N	Dec 2015	
4.11) NETWORK REFRESH		2015 ⁽⁸⁾	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	1	3,100K	N	Dec 1015	
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)												
5.1) TRANET NETWORK (CISCO NETWORK SWITCHES/ ROUTERS)		2016	World Wide Technology Inc / Maryland Heights, MO	C / FP	NETPDTC	Jul 2016	Jul 2016	149	4,000.00	N	Jul 2016	
5.2) ECR VDI/VIRTUAL SERVER SVCS IMPLEMENTATION (CISCO NETWORK SWITCHES)		2015	World Wide Technology Inc / Maryland Heights, MO	C / FP	** NO PCO **	Jul 2015	Jul 2015	160	5,000.00	Y		
5.2) ECR VDI/VIRTUAL SERVER SVCS IMPLEMENTATION (CISCO NETWORK SWITCHES)		2016	World Wide Technology Inc / Maryland Heights, MO	C / FP	** NO PCO **	Jul 2016	Jul 2016	60	5,000.00	N	Jul 2016	
5.3) ECR VDI IMPLEMENTATION (ZERO CLIENT DEVICES)		2015 ⁽⁹⁾	Dell Federal Systems / Round Rock, TX	C / FP	NETPDTC	Jul 2015	Jul 2015	1,625	400.00	Y		
5.3) ECR VDI IMPLEMENTATION (ZERO CLIENT DEVICES)		2016 ⁽¹⁰⁾	Dell Federal Systems / Round Rock, TX	C / FP	NETPDTC	Jul 2016	Jul 2016	1,480	400.00	Y		
5.4) ECR VDI/VIRTUAL SERVER SERVICES IMPLEMENTATION (SERVER HARDWARE)		2015	Dell Federal Systems / Round Rock, TX	C / FP	** NO PCO **	Jul 2015	Jul 2015	30	10,000.00	Y		
5.4) ECR VDI/VIRTUAL SERVER SERVICES IMPLEMENTATION (SERVER HARDWARE)		2016	Dell Federal Systems / Round Rock, TX	C / FP	** NO PCO **	Jul 2016	Jul 2016	80	10,325.00	N	Jul 2016	
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ^(†)		2015	TBD / TBD	C / FP	NETPDTC	Jul 2015	Jan 2016	80	20,000.00	Y		Dec 2014
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ^(†)		2016	TBD / TBD	C / FP	** NO PCO **	Jul 2016	Jul 2016	80	8,000.00	N	Jul 2016	
5.6) ECR VDI IMPLEMENTATION (SERVER SOFTWARE)		2015	Insight Public Sector ⁽¹¹⁾ / Tempe, AZ	C / FP	NETPDTC	Jul 2015	Jul 2015	100	1,000.00	Y		
5.7) VDI - STORAGE ENVIRONMENT		2014	EMC / Hopkinton, MA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	680,000.00	Y		Oct 2013
5.8) VDI - SERVER INFRASTRUCTURE		2014	Dell Federal Systems / Round Rock, TX	C / FP	NETPDTC	Oct 2013	Feb 2014	1	752,000.00	Y		Oct 2013
5.9) VDI - NETWORKING ENVIRONMENT		2014	CISCO / San Jose, CA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	109,000.00	Y		Oct 2013
5.10) VDI - MICROSOFT ENVIRONMENT		2014	Microsoft / Redmond, WA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	1,089K	Y		Oct 2013
5.11) VDI - VIRTUAL ENVIRONMENT		2014	VMWARE / Palo Alto, CA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	1,602K	Y		Oct 2013

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.12) VDI - POWER SUPPLY		2014	APC / Kingston, RI	C / FP	NETPDTC	Nov 2013	Feb 2014	1	38,000.00	Y		Oct 2013
5.13) VDI - ZERO CLIENTS		2014	Dell Wyse / San Jose, CA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	1,412K	Y		Oct 2013
6) YP010 - CONTINUITY OF OPERATIONS (COOP)												
6.1) COOP - ROUTER/SWITCH-1		2013	World Wide Technology Inc / Maryland Heights, MO	C / FP	NETPDTC	Jul 2013	Aug 2015	245	9,371.43	Y		Jul 2013
6.2) COOP - ROUTER SWITCH-2		2013	World Wide Technology Inc / Maryland Heights, MO	C / FP	NETPDTC	Aug 2013	Sep 2015	30	9,366.67	Y		Aug 2013
6.4) COOP - SAN NETWORK -1		2013	World Wide Technology Inc / Maryland Heights, MO	C / FP	NETPDTC	May 2013	Jun 2013	96	9,375.00	Y		May 2013
6.5) COOP - SAN NETWORK-2		2013	Intelligent Decisions / Ashburn, VA	C / FP	NETPDTC	Sep 2013	Oct 2015	30	9,366.67	Y		Sep 2013
6.6) COOP - TACLane		2013	General Dynamics, AIS / Needham, Ma	C / FP	NETPDTC	Oct 2013	Nov 2015	19	14,526.32	Y		Oct 2013
6.7) COOP - STORAGE		2013	EMC / Hopkinton, MA	C / FP	NETPDTC	Nov 2013	Dec 2015	25	20,320.00	Y		Nov 2013
6.8) COOP - SOFTWARE		2013	Softchoice Corporation / Chicago, IL	C / FP	NETPDTC	May 2013	May 2013	3	19,000.00	Y		May 2013
6.9) COOP - NETWORKING INFRASTRUCTURE EQUIPMENT		2013	Intelligent Decisions / Ashburn, VA	C / FP	NETPDTC	Jun 2013	Jul 2014	66	1,015.15	Y		Jun 2013
7) BATTLE STATIONS-21 (BST-21)												
7.1) BST-21 AUDIOVISUAL SYSTEMS		2019	TBD / TBD	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	1,400K	N	Jun 2019	Nov 2018
7.2) BST-21 WIFI/LAN HARDWARE		2019	TBD / TBD	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	400,000.00	N	Jun 2019	Nov 2018
7.3) BST-21 INFORMATION ASSURANCE SOFTWARE MODIFICATION		2019	TBD / TBD	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	300,000.00	N	Jun 2019	Nov 2018
7.5) BST-21 OPERATING EQUIPMENT		2019	TBD / TBD	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	1,300K	N	Jun 2019	Nov 2018
(t) indicates the presence of a P-21												
Footnotes: (2) Contractor Name: HV Collins Co, Inc, Providence, RI (3) Contractor and Location pending contractual award. (4) Contractor and Location pending contractual award (5) Contractor and Location pending contractual award. (6) Contractor and Location pending contractual award. (7) Contractor and Location pending contractual award. (8) Contractor and Location pending contractual award.												

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1	P-1 Line Item Number / Title: 8081 / Training Support Equipment	Aggregated Items: Training Support Equipment
(9) Dell- Round Rock, TX (expected) (10) Dell- Round Rock, TX (expected) (11) (expected)		

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items: Training Support Equipment											
Items (Units in Each)							Fiscal Year 2013										Fiscal Year 2014													BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014														
							OC T	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP
3) TRAINING SUPPORT EQUIP																															
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS																															
	1	2015	NAVY		1	0	1																							1	
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																															
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)																															
	2	2015	NAVY		80	0	80																							80	
	2	2016	NAVY		80	0	80	OC T	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items: Training Support Equipment																
Items (Units in Each)							Fiscal Year 2015										Fiscal Year 2016													BALANCE						
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT				Calendar Year 2015										Calendar Year 2016																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP					
3) TRAINING SUPPORT EQUIP																																				
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS																																				
	1	2015	NAVY		1	0	1											A1											0							
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																																				
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)																																				
	2	2015	NAVY		80	0	80											A -	-	-	-	-	-	-	80											0
	2	2016	NAVY		80	0	80																							A80				0		
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items: Training Support Equipment													
Items <i>(Units in Each)</i>							Fiscal Year 2017										Fiscal Year 2018													BALANCE			
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT				Calendar Year 2017										Calendar Year 2018													
							OC T	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP		
3) TRAINING SUPPORT EQUIP																																	
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS																																	
	1	2015	NAVY		1	1	0																										0
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																																	
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)																																	
	2	2015	NAVY		80	80	0																										0
	2	2016	NAVY		80	80	0																										0
							OC T	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items: Training Support Equipment												
Items <i>(Units in Each)</i>							Fiscal Year 2019										Fiscal Year 2020													BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP	
3) TRAINING SUPPORT EQUIP																																
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS																																
	1	2015	NAVY		1	1	0																								0	
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																																
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)																																
	2	2015	NAVY		80	80	0																								0	
	2	2016	NAVY		80	80	0	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0

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Exhibit P-21, Production Schedule: PB 2019 Navy				Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1			P-1 Line Item Number / Title: 8081 / Training Support Equipment			Aggregated Items: Training Support Equipment	

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - New MFG - Loc				0	0	0	0	0	0	0	0
2	TBD - TBD				0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices							P-1 Line Item Number / Title: 8101 / Training and Education 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: 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	6.347	25.624	24.283	0.000	24.283	24.796	25.913	21.690	21.832	-	150.485
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	6.347	25.624	24.283	0.000	24.283	24.796	25.913	21.690	21.832	-	150.485
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	6.347	25.624	24.283	0.000	24.283	24.796	25.913	21.690	21.832	-	150.485
(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:												
[P40A / TRAINING SUPPORT EQUIPMENT]: Funding provides the U. S. Navy with Live, Virtual Constructive (LVC) training capability necessary to meet critical mission essential requirements for training combat-ready maritime forces for world-wide operations. The LVC capability includes the training support equipment/systems used in support of and connected to the Navy Continuous Training Capability (NCTE) and all of the equipment/systems required, including all training systems, network equipment, IT equipment, communications equipment, C4I systems, and training devices used for LVC training capability in the U. S. Navy.												
[P40A / LIFE CYCLE MANAGEMENT (NCTE)]: Funding will support Enterprise Network refresh. The Navy Continuous Training Environment (NCTE) is a distributed training architecture and network that interconnects 111 Navy, Joint, and Coalition training sites and provides the U. S. Navy's LVC capability.												
[P40A / BALLISTIC MISSILE DEFENSE (BMD)]: The Navy's only means of training and certifying Ballistic Missile Defense (BMD) ships is done synthetically using the Navy Continuous Training Environment (NCTE). Training includes BMD synthetic training events (BMDEX, Fleet Synthetic Training (FST) and FST at Sea) and shipboard qualification / certification events. FY19 funding is essential for the procurement of equipment necessary to deliver and maintain the live, virtual, constructive (LVC) training environment architecture, meet mandated cyber-security improvements, and ensure continued BMD training/ certification of BMD designated ships to meet Navy, theater, and Combatant Commander requirements to detect and defeat theater and strategic missile threats to the United States and coalition partner nations.												
[P40A / BMD FST AT SEA]: Ballistic Missile Defense (BMD) Fleet Synthetic Training (FST) at Sea: Funding required to provide the capability to conduct integrated Live, Virtual, Constructive (LVC) single or multi-ship exercises with ships at sea using the Navy Continuous Training Environment (NCTE). This capability will support BMD and Integrated Air and Missile Defense (IAMD) mission area Fleet sustainment training and mission rehearsal in theater, allow ships to participate in COCOM/Navy Component Commander mandated BMD/IAMD exercises while pierside or underway, as well as enhance BMD/IAMD training objective accomplishment in current Fleet Readiness Training plan (FRTTP underway training events such as Composite Training Unit Exercise (COMPTUEX) and Joint Training Fleet Exercise (JTFEX). The NCTE and FST directly support Fleet training readiness and strike group and BMD platform deployment certifications												
[P40A / ANTI-ACCESS AREA DENIAL (A2AD)]: Anti-Access Area Denial (A2AD) capability provides the NCTE architecture the systems required to incorporate specific technologies, C4ISR stimulations capabilities to train Fleet units in Anti-Access Area Denial Tactics, Techniques and Procedures (TTPs). FY17 includes the cost for one (1) prototype system and a one-time cost for prototype engineering, integration and installation also known as Non-Recurring Engineering (NRE). FY18 includes two (2) units at \$204K each with remaining funds going towards the installation costs and software licensing fees. FY19 four (4) units at \$204K with remaining funds going towards the installation costs and software licensing fees.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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: N/A		
[P40A / COMMON DATA LINK (CDL)]: Common Data Link systems required to support CDL architecture to provide realistic adversary and own-force presentations that allows CDL platforms and operators to coordinate and operate in a realistic manner utilizing real-world systems and protocols. Advance training capabilities will permit development and certification of operational proficiency in Surface Warfare (SUW), Anti-Submarines Warfare (ASW) and Electronic Warfare (EW). The capability transports images and full motion video and supports intelligence gathering and exploitation training objectives. The Navy LVC training capability funds the necessary equipment to support CDL training.		
[P40A / DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS]: Digital Radio Management System (DRMS) Wholeness provides expanded capacity, improved reliability, and increased Radio Frequency (RF) spectrum to live voice communications in the Digital Radio Management System (DRMS) for Tactical Training Ranges (TTR) and NCTE. Provide a single FST communications system enabling realistic tactical communications across all warfare areas, classification levels, and releasable domains. The Fleet's LVC training capability funds the necessary equipment to support DRMS Wholeness training used by the U. S. Navy.		
[P40A / NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA)]: Naval Integrated Fire Control - Counter Air (NIFC-CA) is required for Fleet Synthetic Training (FST) that includes a Cooperative Engagement Capability (CEC) training solution, shore side constructive CEC units, and low fidelity E-2D virtual distributed aircrew training systems. The capabilities will supplement and integrate existing platform-level program of record solutions and is complementary efforts to deliver From the Sea (FTS) training capabilities. The LVC training capability funds the necessary equipment to support NIFC-CA training.		
[P40A / IMPASS SCORING SYSTEM]: Funding will support the Integrated Maritime Portable Acoustic Scoring & Simulation (IMPASS) System Replacement and Modernization in support of Navy Training. The Surface Force Training Manual mandates the use of the IMPASS Naval Gunfire Scoring System as the only accredited means by which a CG or DDG with five (5) inch guns can attain initial Naval Gunfire Support certification in the U.S. Atlantic Fleet and Forward Deployed Naval Forces (FDFN) units stationed in Rota. Funding across FYDP for the Life Cycle Maintenance (LCM), repairs and upgrades to maintain this system.		
[P40A / FLEET TRAINING WHOLENESS (FTW)]: Funding for the Fleet Training Wholeness (FTW) initiative supports the continuing efforts to create a LVC training environment in support of combat readiness. FTW in support of LVC builds upon current Ballistic Missile Defense (BMD) Fleet Synthetic Training (FST) at Sea (BFAS) capabilities, driving toward full FST at Sea capability. Funding across the FY19-23 FYDP; will provide \$2.4M for procurement of equipment to support FST at Sea capability for non-BMD Aegis and SSDS platforms and \$18.4M for procurement of Total Ship Training Capability (TSTC) shipboard synthetic radios required for realistic command and control (C2) representations in an LVC environment. Network consolidation funding of \$12.1M will procure equipment to improve the interface between the synthetic and live (training range) environments. It will provide a high return on investment (ROI) by integrating critical, fielded training range systems and developing common control displays and network upgrades to support LVC training. Equipment to be procured includes server hardware, test equipment, Digital Radio Management System (DRMS) hardware, ten (10) Electronic Warfare (EW) systems, upgrades to twenty-four (24) EW systems, and twelve (12) Information Operations (IO) systems. Funding for Anti-Ship Cruise Missile (ASCM) of \$11.4M provides the capability to procure and deliver 8 Digital Radio Frequency Memory (DRFM) modules per year for subsonic aerial target augmentation to simulate a modern RF jamming capability during live fire air defense exercises. Funding for network consolidation will support procurement of equipment to integrate tactical training range networks and systems with the NCTE to enable an integrated LVC training capability to support unit and strike group fleet training and readiness.		
[P40A / FIRE ARMS TRAINING SIMULATOR (FATS)]: Fire Arms Training Simulator (FATS) Equipment: Funds provide for procurement of shore-based fire arms training simulators at Center for Submarine Learning (CSL) to reduce time and energy expended for small arms proficiency by personnel assigned to small ships and submarines that lack this capability afloat. These un-tethered weapons systems and scenarios place the students into the action and afford them the ability to freely maneuver and handle the weapons.		
[P40A / YPYTD - TRAINING DELIVERY SERVICES (TDS)]: Virtual Desktop Infrastructure Initiative. The training enterprise is moving forward with implementing more efficient technologies to meet the training delivery mission via a virtual desktop infrastructure solution. The virtual desktop solution will be implemented over the next several years at each location in lieu of conducting the traditional one-for-one workstation refresh. The goals and benefits of VDI are to establish an agile, sustainable enterprise training delivery environment; standardize the processes, services and technology used to deliver training; improve the enterprise security posture; refresh outdated electronic classroom workstations and operating systems; and provide a solution that enables a streamlined, centralized IT workforce.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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: N/A		
[P40A / ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025)]: 3.1 ECR Virtual Desktop Infrastructure (VDI) Pool of Desktops (POD) Equipment Upgrade - VDI 2.0 for RRL Requirements (Includes Storage, Rack Infrastructure and Backup/System Management Software). Contains additional graphics capability for robust RRL curriculum. Note: Unit cost for VDI 2.0 POD is only marginally different than non-RRL POD cost - just a slightly different configuration. [P40A / ECR Instructor Podium Tech Refresh]: The Naval Education and Training Command (NETC) Electronic Classroom (ECR) Program provides support for classroom and distributive learning environments in 2,500 classrooms at 68 learning sites around the world. The ECR Program requires OPN funds over the FYDP to replace end-of-life networking equipment, and to purchase VDI Electronic Classroom workstations, VDI ECR Pool of Desktops (POD) equipment and software in support of training delivery operation across the enterprise. In FY18-20, the NETC VDI Program will incorporate robust graphics processing capabilities to support emerging Sailor 2025 and Ready, Relevant Learning (RRL) requirements. [P40A / ECR Student Workstation Tech Refresh]: The NETC ECR Program provides support for classroom and distributive learning environments in 2,500 classrooms at 68 learning sites around the world. To meet DoD/DoN IT virtualization mandates, NETC is implementing a Virtual Desktop Infrastructure (VDI) solution that largely eliminates physical workstations in classrooms. Under VDI, students utilize "zero client desktop devices " which provide a user experience similar to physical workstations, without the use of CPU, local storage or Operating Systems. Zero clients take up less space, use less power and give off less heat. No data is stored on classroom zero clients, reducing the amount of local security and compliance work required. Additionally, zero clients are less complex for the NETC IT Support staff to configure, deploy and manage, enabling centralization/consolidation of labor functions. Students access virtualized curriculum software which is run on centralized servers known as Pools of Desktops (PODs). Software patches and security scans can be performed at the server level, as effort is no longer required to handle those same functions on thousands of student seats. In addition to saving electrical power, VDI allows learning site managers to optimize facility utilization by shifting classes to other rooms if necessary since students and instructors are not tied to specific local hardware. The ECR Program requires OPN funds over the FYDP to replace end-of-life networking equipment, and to purchase VDI Electronic Classroom workstations, VDI ECR POD equipment and software in support of training delivery operation across the enterprise. FY18, FY19, FY20, and FY22 Pool of Desktops (POD) resources used to upgrade/buy equipment vice Tech Refresh here in FY18 and FY19. Also, CISCO servers being replaced in FY18,FY19, and FY20. [P40A / ECR Virtual Desktop Infracture (VDI) Pool of Desktops (POD) Equipment]: ECR Virtual Desktop Infracture (VDI) Pool of Desktops (POD) Equipment Upgrade. [P40A / ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)]: ECR VDI Implementation (Virtualization Software) [P40A / ECR VDI/VIRTUAL SERVER SERVICES IMPLEMENTATION]: Training Network (TRANET) Upgrades to replace end-of-life equipment (Supports internet connectivity for NETC Electronic Classrooms) FY19 & Out - Training Network (TRANET) Upgrades to replace end-of-life equipment: CISCO Catalyst WS-C3750X Switches [P40A / Microsoft Office 2016 Software for ECR student seats]: Microsoft Office 2016 Software for ECR Student seats. [P40A - 2 / D. LAN Room Video Surveillance]: Provides for management and protection of the Academy's numerous distributed local area network equipment spaces. The system will provide cameras for real-time and recorded playback of critical infrastructure locations to ensure a safe and secure enterprise computing environment. [P40A - 2 / F. Backup System Replacement]: Provides for IT hardware and software to replace obsolete tape library. The proposed replacement system will facilitate faster and more reliable backup of enterprise data using current technologies. [P40A - 2 / I. Library Circulation System Replacement]: Provides upgrades to the existing library circulation, inventory and security system. Provides more efficient use of staff time by permitting simultaneous processing of materials and automatically update system records without need for repeat data entry errors. Replaces existing, obsolete, manual barcode system with industry-standard, distributed solution typically found in facilities of this type.		

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Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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: N/A		
[P40A - 2 / J. Virtual Desktop Infrastructure]: Provides lifecycle replacement of outdated electronic classroom workstations and operating systems by standardizing content delivery through central hosting to reduce operating costs and information assurance risks. [P40A - 2 / K. Advanced Computing Cluster Replacement]: Provides replacement of high-end computer cluster for midshipmen and faculty computational requirements in science and technology disciplines. Applications supported include flow visualization, computer-aided design and computational fluid dynamics. The server also provides central file back-up, software and communication services for numerous laboratories, classrooms and courses. The computer will replace a device for which incremental upgrades will no longer be feasible due to intervening technological advancements. [P40A - 2 / N. Bridge Simulator Upgrade]: Provides life-cycle upgrades to extend the useful life of two existing full-mission bridge simulator devices used for watchstanding training and qualification of midshipmen. It is also used for demonstrations of ship handling and navigation learning points not otherwise possible to convey through existing underway laboratories (i.e. Yard Patrol Craft). [P40A - 2 / O. Articulated Hub & Rotor Blade Assembly]: Provides for end-of-life replacement of wavemaker acquired in FY 1978. The existing wavemaker is unable to produce the quality of waves required for academic instruction and research. The replacement wavemaker will reduce the need for unplanned emergency repairs which jeopardize ongoing operations. [P40A - 2 / P. Chromatography Replacement]: Provides physical apparatus for chemistry laboratory study of spectral series. This capability will permit measurement and demonstration of chemical processes at the visible spectrum level critical to understanding of naval and other technologies. [P40A - 2 / IP Telephony]: This Voice Over Internet Protocol (VOIP) system transitions from copper telecommunications services to internet protocol (IP) by 2020 in accordance with DoD direction. [P40A - 2 / Q. Pelletron Accelerator Replacement]: Replaces an existing Pelletron Accelerator and associated support equipment acquired in FY 1988. The device permits study and experimentation in the area of nuclear physics. [P40A - 2 / Electric Dynamometer]: Provides capability for study of motoring engines. Permits improved engine control along with data acquisition and processing capability for the determination of friction horsepower and other metrics vital to student understanding of diesel and turbine propulsion engines. [P40A - 2 / R. Microfabrication Facility]: Provides capability to educate midshipmen in micro-fabrication technology through photolithography and with other techniques. Equipment would be used to demonstrate metal deposition and surface micro-machining techniques, along with alignment and ultraviolet exposure of coated wafers for bulk silicon etching through wafer masking. These capabilities are the foundation for semi-conductor, nana-system, and micro scale heat transfer topics in various engineering courses. This will keep the academic curriculum current by providing an operational capability that allows midshipmen to conduct hands-on experiments in areas increasingly important to national defense. [P40A - 2 / S. Voice Switch Upgrades]: FY19 Voicemail system replacement directly benefit 4,000 end-users reliant on voicemail services in meeting Naval Acadmey academic, professional, and athletic mission requirements. This enables faculty, staff, and midshipmen to maintain communication regardless of their location. [P40A - 2 / T. Mission System Host Platform]: Provides for replacement of IT hardware hosting information system applications meeting specific Naval requirements in academic, administrative, athletic, and professional areas. FY23 Provides for life-cycle upgrade and replacement of IT hardware hosting information system applications meeting specific Naval requirements in academic, administrative, athletic, and professional areas. [P40A - 2 / U. Coastal Engineering Tank Wavemaker Replacement]: Provides for end-of-life replacement of wavemaker acquired in fiscal year 1978. The existing wavemaker is unable to produce the quality of waves required for academic instruction and research. The replacement wavemaker will reduce the need for unplanned emergency repairs which jeopardize ongoing operations.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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: N/A		
[P40A - 2 / V. Auditorium Sound System Replacement]: Provides for lifecycle replacement of FY 2009 speaker cluster and sound system in heavily-used, multifunctional presentation and performance facility. Delivers modern audio capabilities to meet diverse range of educational, professional, and athletic events hosted in the multi-purpose Alumni Hall facility. The system provides capability of multi-directional sound propagation allowing audience members increased fidelity and comprehension of audio components.		
[P40A - 2 / W. Microscale Thermal Transport Replacement]: Provides for replacement of physical apparatus for propulsion laboratory study of nano-technology based heat transfer and thermal sciences acquired FY 2010. This capability permits measurement and demonstration of electromagnetic (thermal) processes at the nano-technology level critical to naval propulsion technology.		
[P40A - 2 / X. Enterprise Network Upgrades]: Permits modular, phased upgrade, replacement, and modernization of the Naval Academy's enterprise computing network to maintain currency with changing industry standards and user demands. Provides for replacement of aging switches and routers used to direct data communication traffic across fiber optic cables to various places throughout the enterprise.		
[P40A - 2 / Particle Image Velocimeter]: Provides for replacement of physical apparatus acquired during FY 2015 used for instantaneous flow field measurements and individual tracking of particle paths during fluid flow. The velocimeter is required for extensive classroom and laboratory support of several engineering disciplines.		
[P40A - 2 / Food Service Equipment]: Provides for replacement of various food preparation and related galley equipment in support of meal services benefitting USNA's 4400-member Brigade of Midshipmen. Existing equipment is projected to reach the end of their design service life in 2021.		
[P40A - 2 / Arena Scoreboard]: Provides for lifecycle replacement of Wesley Brown Fieldhouse scoreboard used for indoor track and other sports originally acquired FY 2008. The system provides capability of multi-media scoring and video replay in support of NCAA and league requirements.		
[P40A - 2 / Universal Wireless Telecommunications System]: Extends cellular coverage to several academic buildings for enhancement of classroom and laboratory instruction as existing mobile communications coverage within these facilities is inadequate to accommodate evolving science, technology, engineering and math (STEM) and cyber computing needs of midshipmen, faculty, staff, and visiting public.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices					P-1 Line Item Number / Title: 8101 / Training and Education 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: 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-40a	Training Support Equipment	P-5a			- / 0.000	- / 4.745	- / 22.406	- / 21.964	- / -	- / 21.964
P-40a	Education Support Equipment	P-5a			- / 0.000	- / 1.602	- / 3.218	- / 2.319	- / -	- / 2.319
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 6.347	- / 25.624	- / 24.283	- / 0.000	- / 24.283
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: TRAINING SUPPORT EQUIPMENT - Reflects the procurement of Anti-Access Area Denial items for the Navy Continuous Training Environment (NCTE) baseline infrastructure. This has seen significant growth as program has expanded to meet the Fleet's integrated Fleet Training Wholeness demands and to maintain systems cyber security.										
1.1 LIFE CYCLE MANAGEMENT (LCM) Funding supports Enterprise Network refresh. The NCTE is a distributed training architecture and network that interconnects 111 Navy, Joint and Coalition training sites. To maximize return on the training dollar, reduce overall operating expense, and support the global live, virtual, and constructive nature of the NCTE, the suite of equipment must be continuously maintained, upgraded and keep pace with mandated Defense Information Systems Agency (DISA) and DoD cyber information assurance requirements. Planned periodic replacement of hardware is essential to keep pace with technology upgrades, allow DoD mandated virtualization of the NCTE infrastructure. Virtualizing hardware systems reduces hardware requirements by consolidating hundreds of individual physical machines onto a much smaller number of virtualization server machines. This reduces Life Cycle Maintenance hardware costs, as well as space and cooling costs. Virtualization also improves resource availability by pooling computing resources and sharing them in response to real time demands. This means that instead of buying hundreds of computers that sit partially idle most of the time, the virtualization server is more efficiently utilized, reducing costs. The upgrades/spare parts are vital to the Fleet's Live, Virtual Constructive (LVC) training capability used by the U. S. Navy and Joint Services to prepare for deployment. NCTE Tier 1 hardware refresh/replacement includes routers, switches, firewalls and computers; network time servers; desktop/servers/zero-clients to allow continued availability of services and comply with cyber security requirements including proxy firewalls and web proxies' requirements.										
1.2 BALLISTIC MISSILE DEFENSE (BMD): Funding for Ballistic Missile Defense (BMD) will support BMD and Integrated Air Missile Defense (IAMD) mission area requirements by providing resources for LVC training architecture technical refresh, compliance with cyber-security requirements and sustain the ability to train and certify BMD mission capable ships. FY19 funding will procure network hardware and cyber-security hardware/software to maintain network operability and security from intrusion of hostile countries and entities.										
1.3 BALLISTIC MISSILE DEFENSE (BMD) FLEET SYNTHETIC TRAINING (FST) at Sea: This capability will support BMD and Integrated Air and Missile Defense (IAMD) mission area Fleet sustainment training and mission rehearsal in theater, allow ships to participate in Cocom/Naval Component Commander mandated BMD/IAMD exercises while pier-side or underway, as well as enhance BMD/IAMD training objective accomplishment in current Fleet Readiness Training plan (FRTP) underway training events such as Composite Training Unit Exercise (COMPTUEX) and Composite Training Unit Exercise (JTfEX). Changes include an increase that supports increased number of BMD/IAMD exercises and certifications events conducted during the FRTP and by Numbered Fleet Commanders for deployed forces. The NCTE and FST directly support Fleet training readiness and strike group and BMD platform deployment certifications. The Fleet's LVC training capability funds the necessary equipment to support BMD FST at Sea training used by the U.S. Navy.										
1.4 ANTI-ACCESS AREA DENIAL (A2AD): Anti-Access Area Denial (A2AD) Capability provide the NCTE architecture the systems required to incorporate specific technologies, command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) stimulation capabilities to train Fleet units in A2AD Tactics, Techniques and Procedures (TTPs). The Fleet's LVC training capability funds the necessary equipment to support A2AD training used by the U.S. Navy. FY18 was required for the procurement of expanded capabilities developed in partnership with the Office of Naval Research. These enhancements improve representations of advanced anti-ship missiles and non-kinetic effects. FY19 funding procures additional A2AD capability gateway portable embarkation kits to allow advanced Electronic Warfare training during Carrier Strike Group (CSG) Navy training events/exercise.										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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: N/A		
1.6 DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS: Digital Radio Management System (DRMS) Wholeness provides expanded capacity, improved reliability, and increased Radio Frequency (RF) spectrum to live voice communications for Tactical Training Ranges (TTR) and the NCTE. Procures a single FST communications system enabling realistic tactical communications across all warfare areas, classification levels, and releasable domains. 1.7 NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA): Changes include an increase to establish a steady state production of systems supporting NIFC-CA training requirement, following initial prototyping efforts. The capabilities will supplement and integrate existing platform-level program of record solutions and is complementary to Navy efforts to deliver From the Sea (FTS) training capabilities. The Navy LVC training capability funds the necessary equipment to support NIFC-CA training used by the U.S. Navy. Procures additional Cooperative Engagement Capability (CEC) Interim Training (CIT) System portable embarkation kits to support Carrier Strike Group (CSG) Fleet training requirements. 1.9 FLEET TRAINING WHOLENESS (FTW) - Funding will support achievement of Fleet Training Wholeness (FTW) objectives through continued integration of fleet units and capabilities into a live, virtual, constructive (LVC) training environment to meet critical combat readiness requirements in support of Navy missions. Network consolidation provides high return-on-investment (ROI) by integrating critical existing components and providing critical technology to support LVC training, specifically the interface between the synthetic and live capabilities. Instituting an at-sea Fleet Synthetic Training (FST) capability for non-Ballistic Missile Defense (BMD) Aegis and Ship Self-Defense System (SSDS) ships builds upon BMD FST at Sea (BFAS) capability and provides expanded capability for combatant ships to participate in COCOM/Navy Component Commander exercises while underway to maintain mission readiness. Procurement of synthetic radios for the Total Ship Training Capability (TSTC) will provide capability to realistically replicate operational command and control (C2) architectures in the LVC environment. Target augmentation will provide threats for live fire air defense exercises that represent real-world threats, providing opportunities to provide realistic training and assess air defense capability and proficiency. This also supports network consolidation and integration of Fleet tactical training ranges and systems with the Navy Continuous Training Environment (NCTE). In FY 19, additional funding is programmed for the Fleet Training Wholeness (FTW) initiative which is necessary to continue integration of Fleet units and capabilities into a LVC training environment to meet critical combat readiness requirements in support of Navy missions. Education Support Equipment 1.2 Backup System Replacement (\$0.374 in FY17 and \$0.486M in FY21): Provides for IT hardware and software to replace obsolete tape library. The proposed replacement system will facilitate faster and more reliable backup of enterprise data using current technologies. 1.4 Virtual Desktop Infrastructure (\$0.718M in FY 2018): Provides lifecycle replacement of outdated electronic classroom workstations and operating systems by standardizing content delivery through central hosting to reduce operating costs and information assurance risks. Replacement sustains current teaching and learning capabilities utilized on a daily basis by 4,500 midshipmen and 2,000 faculty and staff in meeting USNA academic and administrative requirements. 1.5 Advanced Computing Cluster Replacement (\$0.750M in FY 2018): Provides a replacement high-end computer cluster for midshipmen and faculty computational requirements in science and technology disciplines. Applications supported include flow visualization, computer-aided design and computational fluid dynamics. The server also provides central file back-up, software and communication services for numerous laboratories, classrooms and courses. The computer will replace a device for which incremental upgrades will no longer be feasible due to intervening technological advancements. Sustainment of current services is essential to maintaining relevance of Naval Academy advanced academic computational research involving large or complex data sets. The replacement annually benefits approximately 100 midshipmen, faculty and staff by providing state of the art computing capabilities. 1.6 Bridge Simulator Upgrade (\$0.557M in FY17) provides life-cycle upgrades to extend the useful life of two existing full-mission bridge simulator devices used for watch standing training and qualification of midshipmen. It is also used for demonstrations of ship handling and navigation learning points not otherwise possible to convey through existing underway laboratories (i.e. Yard Patrol Craft). 1.7 Articulated Hub & Rotor Blade Assembly (\$0.800M in FY 2018): Provides for life-cycle upgrades to conduct rotary-wing aerodynamic and performance testing in support of the engineering curriculum and research related to fluid dynamics, vibrations, acoustics, structural dynamics, flight propulsion, helicopter performance and aerodynamics. The equipment will replace existing assets acquired in the 1970s that		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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: N/A		
are no longer viable. Failure to sustain currency of the USNA aeronautical engineering program risks loss of accreditation and inability to meet Navy demand for officers with subspecialty education backgrounds in the aviation field. This line item annually benefits midshipmen, faculty and staff, and enables USNA to provide 35% of midshipmen with practical, experimental, and theoretical applications/experiences within aerospace and mechanical engineering and related mathematics and physics courses. Without this tech refresh science, technology, engineering, and mathematic (STEM) majors would be at risk for accreditation 1.8 Chromatography Replacement (\$0.250M in FY19) Provides physical apparatus for chemistry laboratory study of spectral series. This capability will permit measurement and demonstration of chemical processes at the visible spectrum level critical to understanding of naval and other technologies. 1.9 Telephony (\$0.231M in FY19) This Voice Over Internet Protocol (VOIP) system transitions from copper telecommunications services to internet protocol (IP) by 2020 in accordance with DoD direction. 1.10 Pelletron Accelerator Replacement (\$0.435M in FY19) Replaces an existing Pelletron Accelerator and associated support equipment acquired in FY 1988. The device permits study and experimentation in the area of nuclear physics at USNA. 1.11 Electric Dynamometer (\$0.250M in FY19 and \$0.270M in FY21) Provides capability for study of motoring engines. Permits improved engine control along with data acquisition and processing capability for the determination of friction horsepower and other metrics vital to student understanding of diesel and turbine propulsion engines. 1.12 Microfabrication Facility (\$0.350M in FY19) Provides capability to educate midshipmen in micro-fabrication technology through photolithography and with other techniques. Equipment would be used to demonstrate metal deposition and surface micro-machining techniques, along with alignment and ultraviolet exposure of coated wafers for bulk silicon etching through wafer masking. These capabilities are the foundation for semi-conductor, nana-system, and micro scale heat transfer topics in various engineering courses. This will keep the academic curriculum current by providing an operational capability that allows midshipmen to conduct hands-on experiments in areas increasingly important to national defense. 1.13 Voice Switch Software Upgrades (\$0.500M in FY18 and \$0.269M in FY19): FY 2018 and FY 2019 provides software updates and IP voice telephony to maintain technical equivalence and interoperability with evolving marketplace requirements. Upgrades directly benefit 4,000 end-users reliant on voicemail services in meeting Naval Academy academic, professional, and athletic mission requirements. This enables faculty, staff, and midshipmen to maintain communication regardless of their location. 1.14 Mission System Host Platform (\$0.604M in FY20 and \$0.489M in FY 2023) Provides for replacement of IT hardware hosting information system applications meeting specific Naval requirements in academic, administrative, athletic, and professional areas. FY23 Provides for life-cycle upgrade and replacement of IT hardware hosting information system applications meeting specific Naval requirements in academic, administrative, athletic, and professional areas. 1.15 Coastal Engineering Tank Wave-maker Replacement (\$0.450M in FY 2018): Provides for end-of-life replacement of wave-maker acquired in FY 1978. The existing wave-maker is unable to produce the quality of waves required for academic instruction and research. The replacement wave-maker will reduce the need for unplanned emergency repairs which jeopardize ongoing operations. Restoration of as-built capabilities is essential to maintaining relevance of Naval Academy near-shore educational programs annually benefitting approximately 250 midshipmen, faculty and staff. Failure to restore system performance risks loss of accreditation and inability to meet Navy demand for officers with subspecialty education backgrounds in the Ocean Engineering field. 1.16 Auditorium Sound System Replacement (\$0.534 in FY19) Provides for lifecycle replacement of FY 2009 speaker cluster and sound system in heavily-used, multifunctional presentation and performance facility. Delivers modern audio capabilities to meet diverse range of educational, professional, and athletic events hosted in the multi-purpose Alumni Hall facility. The system provides capability of multi-directional sound propagation allowing audience members increased fidelity and comprehension of audio components. 1.17 Microscale Thermal Transport Replacement (\$0.313M in FY20) Provides for replacement of physical apparatus for propulsion laboratory study of nano-technology based heat transfer and thermal sciences acquired FY 2010. This capability permits measurement and demonstration of electromagnetic (thermal) processes at the nano-technology level critical to naval propulsion technology.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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: N/A		
1.18 Enterprise Network Upgrades (\$0.300M in FY17, \$0.536M in FY20, \$2.342M in FY22, and \$0.634M in FY23) Permits modular, phased upgrade, replacement, and modernization of the Naval Academy's enterprise computing network to maintain currency with changing industry standards and user demands. Provides for replacement of aging switches and routers used to direct data communication traffic across fiber optic cables to various places throughout the enterprise. 1.19 Particle Image Velocimeter (\$0.562M in FY21) Provides for replacement of physical apparatus acquired during FY 2015 used for instantaneous flow field measurements and individual tracking of particle paths during fluid flow. The velocimeter is required for extensive classroom and laboratory support of several engineering disciplines. 1.20 Food Service Equipment (\$0.566M in FY21) Provides for replacement of various food preparation and related galley equipment in support of meal services benefitting USNA's 4400-member Brigade of Midshipmen. Existing equipment is projected to reach the end of their design service life in 2021. 1.21 Arena Scoreboard (\$0.416M in FY21) Provides for lifecycle replacement of Wesley Brown Fieldhouse scoreboard used for indoor track and other sports originally acquired FY 2008. The system provides capability of multi-media scoring and video replay in support of NCAA and league requirements. 1.22 Universal Wireless Telecommunications System (\$0.371M in FY17, \$0.400M in FY20, and \$1.264M in FY23) Extends cellular coverage to several academic buildings for enhancement of classroom and laboratory instruction as existing mobile communications coverage within these facilities is inadequate to accommodate evolving science, technology, engineering and math (STEM) and cyber computing needs of midshipmen, faculty, staff, and visiting public.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1								P-1 Line Item Number / Title: 8101 / Training and Education Equipment								Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
1) TRAINING SUPPORT EQUIPMENT																					
1.1) LIFE CYCLE MANAGEMENT (NCTE)	A		-	-	-	1,681K	1	1.681	3,964K	1	3.964	2,458K	1	2.458	-	-	-	2,458K	1	2.458	
1.2) BALLISTIC MISSILE DEFENSE (BMD)	A		-	-	-	-	-	-	2,113K	1	2.113	2,152K	1	2.152	-	-	-	2,152K	1	2.152	
1.3) BMD FST AT SEA	A		-	-	-	208,000.00	1	0.208	218,000.00	1	0.218	168,000.00	1	0.168	-	-	-	168,000.00	1	0.168	
1.4) ANTI-ACCESS AREA DENIAL (A2AD)	A		-	-	-	194,500.00	2	0.389	227,000.00	2	0.454	226,500.00	4	0.906	-	-	-	226,500.00	4	0.906	
1.5) COMMON DATA LINK (CDL)	A		-	-	-	324,000.00	1	0.324	300,000.00	1	0.300	-	-	-	-	-	-	-	-	-	
1.6) DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS ^(†)	A		-	-	-	1,327K	1	1.327	1,244K	1	1.244	1,100K	1	1.100	-	-	-	1,100K	1	1.100	
1.7) NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA)	A		-	-	-	284,000.00	1	0.284	551,000.00	1	0.551	566,000.00	1	0.566	-	-	-	566,000.00	1	0.566	
1.8) IMPASS SCORING SYSTEM ^(†)	A		-	-	-	-	-	-	2,200K	1	2.200	-	-	-	-	-	-	-	-	-	
1.9) FLEET TRAINING WHOLENESS (FTW) ^(†)	A		-	-	-	-	-	-	-	-	-	5,400K	1	5.400	-	-	-	5,400K	1	5.400	
Subtotal: 1) TRAINING SUPPORT EQUIPMENT			-	-	0.000	-	-	4.213	-	-	11.044	-	-	12.750	-	-	-	-	-	12.750	
2) Fire Arms Training Simulator																					
2.1) FIRE ARMS TRAINING SIMULATOR (FATS)	A		-	-	-	-	-	-	237,000.00	2	0.474	165,000.00	1	0.165	-	-	-	165,000.00	1	0.165	
Subtotal: 2) Fire Arms Training Simulator			-	-	0.000	-	-	-	-	-	0.474	-	-	0.165	-	-	-	-	-	0.165	
3) YPYTD - TRAINING DELIVERY SERVICES (TDS)																					
3.1) ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025) ^(†)	A		-	-	-	-	-	-	146,000.00	7	1.022	149,142.86	7	1.044	-	-	-	149,142.86	7	1.044	
3.2) ECR Instructor Podium Tech Refresh ^(†)	A		-	-	-	1,000.00	216	0.216	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1							P-1 Line Item Number / Title: 8101 / Training and Education Equipment								Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.3) ECR Student Workstation Tech Refresh ^(†)	A		-	-	-	1,092.59	216	0.236	-	-	-	-	-	-	-	-	-	-	-	-
3.4) ECR Graphics Offload Server (Test Unit) ^(†)	A		-	-	-	15,500.00	2	0.031	-	-	-	-	-	-	-	-	-	-	-	-
3.5) ECR Virtual Desktop Infracture (VDI) Pool of Desktops (POD) Equipment ^(†)	A		-	-	-	-	-	-	138,000.00	5	0.690	141,235.29	17	2.401	-	-	-	141,235.29	17	2.401
3.6) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)	A		-	-	-	-	-	-	-	-	-	2,030.77	780	1.584	-	-	-	2,030.77	780	1.584
3.7) ECR VDI/ VIRTUAL SERVER SERVICES IMPLEMENTATION	A		-	-	-	24,487.65	2	0.049	6,448.00	375	2.418	6,562.50	64	0.420	-	-	-	6,562.50	64	0.420
3.8) Microsoft Office 2016 Software for ECR student seats ^(†)	A		-	-	-	-	-	-	483.62	2,808	1.358	-	-	-	-	-	-	-	-	-
Subtotal: 3) YPYTD - TRAINING DELIVERY SERVICES (TDS)			-	-	0.000	-	-	0.532	-	-	5.488	-	-	5.449	-	-	-	-	-	5.449
4) Multi-purpose Reconfigurable Training System (MRTS)																				
4.1) Multi-purpose Reconfigurable Training System (MRTS) ^(†)	A		-	-	-	-	-	-	5,400K	1	5.400	-	-	-	-	-	-	-	-	-
Subtotal: 4) Multi-purpose Reconfigurable Training System (MRTS)			-	-	0.000	-	-	-	-	-	5.400	-	-	-	-	-	-	-	-	-
5) Consolidated Afloat Networks and Enterprise Services (CANES) Acceleration ⁽¹⁾																				
5.1) CANES Acceleration	A		-	-	-	-	-	-	-	-	-	3,600K	1	3.600	-	-	-	3,600K	1	3.600
Subtotal: 5) Consolidated Afloat Networks and Enterprise Services (CANES) Acceleration			-	-	0.000	-	-	-	-	-	-	-	-	3.600	-	-	-	-	-	3.600
Total			-	-	0.000	-	-	4.745	-	-	22.406	-	-	21.964	-	-	-	-	-	21.964
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
^(†) indicates the presence of a P-5a																				
Footnotes:																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1	P-1 Line Item Number / Title: 8101 / Training and Education Equipment	Aggregated Items Title: Training Support Equipment
⁽¹⁾ Consolidated Afloat Networks and Enterprise Services (CANES): FY19 OPN funding provides for procurement of CANES training devices to integrate the CANES Virtual Environment (VE) and planned Multi-purpose Reconfigurable Training System (MRTS) to meet IT A-School and Journeyman Communications Course (JCC) C-School training mission for 2000+ students annually. CANES is the Fleet's core communications capability and training equipment needs to be compatible with the Multi-Purpose Reconfigurable Training System (MRTS) family of trainers and the Virtual Environment which will provide a training environment simulating a variety of shipboard systems. SPAWAR Virtual Environment (VE) training solution is cloud-based and training accessed by FCA to support just-in-time advanced skills training. VE resolves current Program-of-Record (POR) Technical Training Equipment (TTE) single-shifted design capacity constraint and will facilitate training of multiple fielded CANES variants. Implementation of VE training solution for CANES will lead to significant reduction in IT workforce constraint caused by current POR TTE training solution, and will yield significant annual travel/per diem cost avoidance. Consolidated Afloat Networks and Enterprise Services (CANES): \$5.100M across the FYDP is required for SPAWAR and Center for Information Warfare Training (CIWT) to integrate CANES training into the Virtual Environment and the replacement for the Virtual Radio Room suite. Integrating CANES training into the planned single hardware suite (MRTS) to simulate various pieces of Technical Training Equipment (TTE) and reduce life-cycle costs and upgrades. SPAWAR and CIWT will upgrade training system to meet IT A-School and Journeyman Communications course (JCC) C-School training mission for 2000+ students annually.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8101 / Training and Education Equipment					Aggregated Items: Training Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) TRAINING SUPPORT EQUIPMENT												
1.6) DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS		2017	New MFG - Name / New MFG - Loc	C / FFP	DTIC	Jan 2017	Jan 2017	1	1,327K	N	Oct 2017	Oct 2016
1.6) DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS		2018	New MFG - Name / New MFG - Loc	C / FFP	DTIC	Oct 2017	Oct 2017	1	1,244K	N	Jan 2018	Oct 2017
1.8) IMPASS SCORING SYSTEM		2018	New MFG - Name / New MFG - Loc	C / FFP	DTIC	Jan 2018	Jan 2018	1	2,200K	N	Oct 2018	Oct 2017
1.9) FLEET TRAINING WHOLENESS (FTW)		2019 ⁽²⁾	Alion Science & Technology / McLean, VA	C / FFP	DTIC	Oct 2018	Oct 2018	1	5,400K	N	Oct 2018	Jan 2017
3) YPYTD - TRAINING DELIVERY SERVICES (TDS)												
3.1) ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025)		2018	TBD / TBD	C / TBD	** NO PCO **	Oct 2017	Oct 2017	7	146,000.00	N	Oct 2017	
3.1) ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025)		2019	TBD / TBD	C / TBD	** NO PCO **	Oct 2018	Oct 2018	7	149,142.86	N	Oct 2018	
3.2) ECR Instructor Podium Tech Refresh		2017	TBD / TBD	C / TBD	** NO PCO **	Oct 2016	Oct 2016	216	1,000.00	N	Sep 2018	
3.3) ECR Student Workstation Tech Refresh		2017	TBD / TBD	C / TBD	** NO PCO **	Oct 2016	Oct 2016	216	1,092.59	N		
3.4) ECR Graphics Offload Server (Test Unit)		2017	CISCO / San Jose, CA	C / TBD	** NO PCO **	Oct 2016	Oct 2016	2	15,500.00	N	Dec 2017	
3.5) ECR Virtual Desktop Infrastructure (VDI) Pool of Desktops (POD) Equipment		2018	TBD / TBD	C / TBD	** NO PCO **	Oct 2017	Oct 2017	5	138,000.00	N		
3.5) ECR Virtual Desktop Infrastructure (VDI) Pool of Desktops (POD) Equipment		2019	TBD / TBD	C / TBD	** NO PCO **	Oct 2018	Oct 2018	17	141,235.29	N		
3.8) Microsoft Office 2016 Software for ECR student seats		2018	Microsoft ⁽³⁾ / Redmond, WA	C / TBD	** NO PCO **	Dec 2017	Dec 2017	2,808	483.62	N	Dec 2017	
4) Multi-purpose Reconfigurable Training System (MRTS)												
4.1) Multi-purpose Reconfigurable Training System (MRTS)		2018	TBD / TBD	C / TBD	TBD	Feb 2018	Feb 2018	1	5,400K	N	Feb 2018	Dec 2017
Footnotes: ⁽²⁾ Contract Name: JSAF Support to Navy Virtual and Constructive Fleet Training ⁽³⁾ 2808 Licenses												

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1							P-1 Line Item Number / Title: 8101 / Training and Education Equipment								Aggregated Items Title: Education Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) U.S. Naval Academy (USNA)																				
1.2) F. Backup System Replacement ^(†)	A		-	-	-	374,000.00	1	0.374	-	-	-	-	-	-	-	-	-	-	-	-
1.4) J. Virtual Desktop Infrastructure ^(†)	A		-	-	-	-	-	-	718,000.00	1	0.718	-	-	-	-	-	-	-	-	-
1.5) K. Advanced Computing Cluster Replacement ^(†)	A		-	-	-	-	-	-	750,000.00	1	0.750	-	-	-	-	-	-	-	-	-
1.6) N. Bridge Simulator Upgrade ^(†)	A		-	-	-	557,000.00	1	0.557	-	-	-	-	-	-	-	-	-	-	-	-
1.7) O. Articulated Hub & Rotor Blade Assembly ^(†)	A		-	-	-	-	-	-	800,000.00	1	0.800	-	-	-	-	-	-	-	-	-
1.8) P. Chromatography Replacement ^(†)	A		-	-	-	-	-	-	-	-	-	250,000.00	1	0.250	-	-	-	250,000.00	1	0.250
1.9) IP Telephony ^(†)	A		-	-	-	-	-	-	-	-	-	231,000.00	1	0.231	-	-	-	231,000.00	1	0.231
1.10) Q. Pelletron Accelerator Replacement ^(†)	A		-	-	-	-	-	-	-	-	-	435,000.00	1	0.435	-	-	-	435,000.00	1	0.435
1.11) Electric Dynamometer ^(†)	A		-	-	-	-	-	-	-	-	-	250,000.00	1	0.250	-	-	-	250,000.00	1	0.250
1.12) R. Microfabrication Facility ^(†)	A		-	-	-	-	-	-	-	-	-	350,000.00	1	0.350	-	-	-	350,000.00	1	0.350
1.13) S. Voice Switch Upgrades ^(†)	A		-	-	-	-	-	-	500,000.00	1	0.500	269,000.00	1	0.269	-	-	-	269,000.00	1	0.269
1.15) U. Coastal Engineering Tank Wavemaker Replacement ^(†)	A		-	-	-	-	-	-	450,000.00	1	0.450	-	-	-	-	-	-	-	-	-
1.16) V. Auditorium Sound System Replacement ^(†)	A		-	-	-	-	-	-	-	-	-	534,000.00	1	0.534	-	-	-	534,000.00	1	0.534
1.18) X. Enterprise Network Upgrades ^(†)	A		-	-	-	300,000.00	1	0.300	-	-	-	-	-	-	-	-	-	-	-	-
1.22) Universal Wireless Telecommunications System ^{(4)(†)}	A		-	-	-	371,000.00	1	0.371	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy										Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1					P-1 Line Item Number / Title: 8101 / Training and Education Equipment					Aggregated Items Title: Education Support Equipment	

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: 1) U.S. Naval Academy (USNA)			-	-	0.000	-	-	1.602	-	-	3.218	-	-	2.319	-	-	-	-	-	2.319
Total			-	-	0.000	-	-	1.602	-	-	3.218	-	-	2.319	-	-	-	-	-	2.319

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

(†) indicates the presence of a P-5a

Footnotes:

⁽⁴⁾ Universal Wireless Telecommunications System

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1			P-1 Line Item Number / Title: 8101 / Training and Education Equipment						Aggregated Items: Education Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) U.S. Naval Academy (USNA)												
1.2) F. Backup System Replacement		2017	DELL/EMC/CDW-G / UNKNOWN	C / FP	FLC, PHILADELPHIA	Apr 2017	Sep 2017	1	374,000.00	N	May 2017	Apr 2017
1.4) J. Virtual Desktop Infrastructure		2018	UNKNOWN / UNKNOWN	C / FP	FLC, PHILADELPHIA	May 2018	Jun 2018	1	718,000.00	N		Mar 2018
1.5) K. Advanced Computing Cluster Replacement		2018	UNKNOWN / UNKNOWN	C / FP	FLC, PHILADELPHIA	Jul 2018	Aug 2018	1	750,000.00	N		May 2018
1.6) N. Bridge Simulator Upgrade		2017	Electric Picture / Unknown	C / FP	FLC, PHILADELPHIA	Jun 2017	Jul 2017	1	557,000.00	N	May 2017	Apr 2017
1.7) O. Articulated Hub & Rotor Blade Assembly		2018	Unknown / Unknown	C / FP	FLC, PHILADELPHIA	Jul 2018	Aug 2018	1	800,000.00	N		May 2018
1.8) P. Chromatography Replacement		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Jun 2019	Sep 2019	1	250,000.00	N	Sep 2017	Mar 2019
1.9) IP Telephony		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	May 2019	Aug 2019	1	231,000.00	N		Jan 2019
1.10) Q. Pelletron Accelerator Replacement		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Jul 2019	Aug 2019	1	435,000.00	N		Feb 2019
1.11) Electric Dynamometer		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Jun 2019	Sep 2019	1	250,000.00	N	Sep 2019	Mar 2019
1.12) R. Microfabrication Facility		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Jul 2019	Aug 2019	1	350,000.00	N	Sep 2019	Mar 2019
1.13) S. Voice Switch Upgrades		2018	AVAYA / NORFOLK, VA	C / FP	FLC, PHILADELPHIA	Dec 2017	May 2018	1	500,000.00	N	Feb 2017	Feb 2017
1.13) S. Voice Switch Upgrades		2019	AVAYA / NORFOLK, VA	C / FP	FLC, PHILADELPHIA	Jun 2019	Jul 2019	1	269,000.00	N	Mar 2019	Mar 2019
1.15) U. Coastal Engineering Tank Wavemaker Replacement		2018	TBD / TBD	C / FP	FLC, PHILADELPHIA	May 2018	Jun 2018	1	450,000.00	N		Mar 2018
1.16) V. Auditorium Sound System Replacement		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Apr 2019	May 2019	1	534,000.00	N		Jan 2019
1.18) X. Enterprise Network Upgrades		2017	Unknown / Unknown	C / FP	FLC, PHILADELPHIA	Jun 2017	Dec 2017	1	300,000.00	N	Dec 2017	Mar 2017
1.22) Universal Wireless Telecommunications System ⁽⁴⁾		2017	Unknown / Unknown	C / FP	FLC, PHILADELPHIA	Aug 2017	Dec 2017	1	371,000.00	N	Mar 2017	Apr 2017

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8106 / Command Support 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: 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>)	120.725	44.666	88.376	66.681	0.000	66.681	73.952	48.317	54.449	74.022	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	120.725	44.666	88.376	66.681	0.000	66.681	73.952	48.317	54.449	74.022	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	120.725	44.666	88.376	66.681	0.000	66.681	73.952	48.317	54.449	74.022	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>)	-	0.005	0.022	0.006	-	0.006	0.007	0.007	0.007	-	-	0.054
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
 The FY 2019 funding request was reduced by \$3.590 million to account for the availability of prior year execution balances.

The FY 2019 funding request was reduced by \$0.231 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.

This line provides for new and systematic replacement of investment items required in support of the operational mission of the Navy's claimancy. Procurement of Command Support Equipment throughout the Navy involves the purchase, replacement and upgrade of various pieces of equipment such as Cable Replacements and the purchase, repair, and upgrade of IT Infrastructure and Security Systems. This equipment is an integral part of the programs to improve the fleet and shore establishment by maintaining or expanding existing capabilities or replacing ineffective units.

[P40A / NCIS Data Modernization & Analytical Tools]: The NCIS mission is to support the day-to-day operations to Prevent Terrorism, Protection of National Secrets, Reduce Crime across the Department of Navy and Marine Corps, and comply with DON Mandates. Without the IT Program and Technical Support, these systems will impact NCIS ability to fulfill its mission as designated by SECNAVINST 5430.107. This will Negatively impact mission commanders in their warfighting capacity. Additionally, these IT services have a direct impact on security and monitoring of IT systems as defined in DOD 8500.02 and would violate the requirement and raise the risk of system security vulnerabilities.

[P40A / OCHR - Human Resource IT system]: Procurement funding ensures that production and modernization of Human Resources Civilian Personnel (HRCP) in support of DON HR Enterprise Systems remain in accordance with DOD and DON modernization efforts are met, technical refresh of past-shelf-life infrastructure supporting HRCP, and planned HRLINK licensing expansion in compliance to ESL mandates to DON Functional Communities.

[P40A / FIP]: Funding will be used for procurement of additional modules/ capabilities to improve Navy ERP user experience and actions to correct deficiencies found in the Federal Information System Controls Audit Manual (FISCAM) audit. FISCAM resourcing requirements are growing as an increasing number of deficiencies are identified due to non-compliance with financial audit standards resulting from inadequate internal controls among DON business processes and IT systems.

[P40A / Insider Threat]: The Navy Counter Insider Threat capability seeks to meet Defense and Department of the Navy direction to deter, detect, and mitigate the risk of compromise due to insider threats. Navy Counter Insider Threat Capability will establish an analytic hub and enable the accomplishment of these objectives by providing a user activity monitoring capability, a mechanism for fusing collected information

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command Support 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: N/A		
with security risk data from multiple other sources, and a graphical display to facilitate threat analysis, identification, and initial action. This effort is to procure, configure, and install hardware and software in support of the Insider Threat program.		
[P40A / Electronic Military Personnel Record System (EMPRS)]: Electronic Military Personnel Record System (EMPRS):		
Electronic Military Personnel Record System (EMPRS) is an electronic document/image based system that serves as the repository for all Department of Navy (DoN) official military personnel record images (over 170 million images). It supports retired, active, and reserve military personnel in the functional areas of selection board operations, casualty management, mobilization, veteran benefits (providing automated Sailor information to the Veterans Administration) and other military personnel management functions. EMPRS annually supports over 150 statutory and administrative selection boards, providing over 12 million service record images, covering promotions, assignments, and retention. References: Title 10 & 44, U. S. Code and Title 36, CFR (Record Management Requirements), DoD Directive 5015.2		
OPN funding provided allows us to use an acquisition strategy that is both cost efficient and effective. This strategy sustains the EMPRS program throughout the FYDP, providing technology refreshment (TR) throughout the years (evolutionary) as opposed to a TR every 8 years. This provides vital upgrades in a more timely manner. An 8 year refresh cycle of IT would require reliance on old system and software, by IT standards, that frequently result in compatibility issues as new systems and software are fielded, thus driving up sustainment costs. Evolutionary technical refreshment is a more cost effective strategy.		
[P40A / Peripherals]: Peripherals represent auxiliary and infrastructure components that make up and are associated with the EMPRS system, which supports the Navy's selection board processes for all Officer and senior enlisted personnel (E7 & above). EMPRS is the major information system which is mutually supported by infrastructure to conduct 160 selection boards on an annual basis. Peripherals include items such as removable walls within boardrooms that function as display screen for military personnel record display, keyboards, printers, monitors, mice for workstations in the boardrooms, etc.		
[P40A / Electronic Security System (ESS) Replacement/Upgrade]: Electronic Security System (ESS) Replacement/Upgrade An integrated, open-architecture, non-proprietary digital replacement and/or upgraded corrections/detention-grade electronic security management system. Purchases to include but not limited to: New infrastructure; Multiple CCTV camera monitoring; On-line recording systems; Redundant server/workstation/client fail-over capabilities; VOIP Intercommunication & Paging Audio System; CCTV state-of-the-art, solid state, IP (Internet Protocol) cameras; NVR Recording System Network Video Recorders (NVRs); Integration of CCTV systems to other Brig sub-systems; Access Control System; Proximity-type cards and contactless readers; Integration of the access control system and other facility security control subsystems; Radio Frequency Identification Tracking System; Personal Duress and Alarm System; Personal Digital/ Detention Assistant for staff with 802.11 Wi-Fi connectivity; and other requirements necessary to replace/upgrade to a fully functional and integrated Electronic Security System.		
[P40A / System - Crisis Announcement]: The U.S. Naval War College (NWC) requires a distributed control crisis mass emergency real time assisted voice evacuation and mass communication system within the NWC complex to comply with published safety standards. The required installation will enable NWC security and leadership personnel to operate a supervised and distributed, integrated compound wide system of emergency response. This system will provide an announcement system for the College to mitigate additional emergency situations such as active shooter, bomb threats and other threat scenarios. The required system would assist in the protection of life and property by indicating the existence of an emergency situation and providing "real time" instructions to a large number of people whether inside a building or spread out the NWC complex and surrounding area on Newport Naval Station. As a host of International Senior Officers and numerous U.S. dignitaries, both military and civilian, the Naval War College lacks to capability coordinate the responses of the 1,500 personnel on campus.		
[P40A / MPTE Core Transformation]: Faced with complex challenges to efficiently and effectively attract, develop, and retain Navy Sailors, the Department has prepared an MPT&E Transformation plan to combat threats to mission readiness. The strategic vision and desired end-state of the endeavor is a holistic modernization of models, processes, and information technology, to dramatically improve the quality of MPT&E service delivery. There are too many Legacy IT Systems, an overly complex data management system, and limited Sailor-Self-Service options with no mobile access. The IT Transformation will focus on two primary strategies: maximizing the utilization of commercial-off-the-shelf (COTS) technologies and the implementation of cloud based technologies. Together these two approaches will improve both the service to Sailors and to Fleet readiness, reduce our technology footprint and increase accountability and audit readiness.		
In accordance with the MPT&E transformation plan, legacy systems will be replaced by modern and robust solutions that better support Navy's ability to execute its mission and efficiently allocate its resources. The Department will provide the access, schematics, and other pertinent information regarding the existing architecture, artifacts, and visualizations to enable this transformation. Migrating the data housed within these disparate systems to centralized, COTS-configured applications will reduce costs, eliminate redundancy, and streamline processes in accordance with the goals set forth in the transformational effort strategy. Four projects are the cornerstones of the Navy / N1 Transformation strategy:		

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Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command Support 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: N/A		
- The Navy Personnel and Pay System (NP2) includes Navy Personnel and Pay Standard modernization and the collapse of Legacy Manpower System functionality. - Single Point of Entry (SPOE) for Sailor self-service is composed of My Navy Portal (MNP), Identity and Access Management (IdAM), a Customer Relations Management (CRM) solution, and centralized and standardized customer service center (The MyNavy Career Center(MNCC)). - Learning Stack (LS) improves the accessibility, sophistication, and collaborative nature of educational outreach. - Authoritative Data Environment (ADE) will enable the collapse of 9 legacy data warehouses into a single, authoritative source of data truth for Sailors and Navy decision makers. Additionally, ADE will enable modern data analytics and business intelligence capabilities. All of the technology solutions will leverage hyper scale cloud based services in order to provide secure, accessible and cost effective business IT. [P40A / MPTE Core Transformation PeopleSoft Licenses]: PeopleSoft 9.2 licenses in support of NP2 consolidation (MPTE CORE Transformation) [P40A / Converged ERP]: Converged Enterprise Resource Planning: The Navy Enterprise Resource Planning (ERP) solution is an integrated business management system that modernizes and standardizes Navy's business processes. Navy ERP utilizes best commercial practices to provide real-time information exchange, unprecedented financial and asset visibility, and improved reporting and decision-making capabilities across key acquisition, financial, and logistics operations. Navy ERP is the tool chosen to meet Congressional mandates to establish and maintain federal financially compliant management systems, federal accounting standards, and U.S. Government General Ledger procedures at the transaction level. The Navy ERP foundation to achieve enterprise-wide business transformation is accomplished through two releases: the Financial/Acquisition Solution and the Single Supply Solution. The Navy has overcome a broad range of challenges to successfully deploy financial, acquisition, and workforce management capabilities to all the major acquisition Systems Commands, the Office of Naval Research (ONR), and Strategic Systems Programs (SSP). These commands include up to 72,000 users and \$69B of the Navy's Total Obligation Authority (TOA). Navy ERP has deployed and stabilized the Single Supply Solution covering all Navy's Material Groups and Fleet Logistic Centers (FLCs) and Partner Sites. The project acquires standard applications servers (ADP hardware) which are hosted in a Navy Data Center at NAS Patuxent River to support ERP software for the Navy Converged ERP Program. Funding reflects procurement of Government Furnished Equipment (GFE) hardware, software, and licenses in support of the SAP enterprise system environment for the Navy ERP Program. [P40A / Ashore Equipment]: NP2 is the Navy's world-wide system for the field level input of personnel and pay transactions. NP2 supports active duty and reserve users ashore through a single web site, and on approximately 125 ships. NP2 collects, validates, processes and transfers the data necessary to ensure accurate and timely pay and maintenance of personnel records. NP2 is a modern, cost-effective human resources capability that fully integrates business processes, tools, and authoritative data to efficiently and effectively manage the military workforce. NSIPS is being enhanced to systematically modernize the Navy's personnel and pay processes and systems. NSIPS relies on technical refresh to maintain the usability, functionality and supportability of the systems ashore to avoid technical obsolescence. The technical refresh of ashore equipment (hardware and software) will be performed on an annual basis throughout the FYDP. The Navy Manpower, Personnel, Training and Education (MPT&E) enterprise is urgently transforming the way it operates in order to dramatically improve enterprise performance and quality of life for the Sailor at a fraction of today's costs. Migration of system hosting to the cloud environment will technically enable the MPT&E enterprise to match the speed of technological change and meet changing global operational commitments while maintaining sustainable costs. Additionally, the Office of the Under Secretary of Defense (Comptroller) has developed auditable disbursement and collection processes and data standards to comply with the Treasury mandate and to improve financial processes and eliminate errors at the source. Pay transformation will require additional software licenses that support the underlying business process changes. NP2 will evolve to a integrated personnel and pay solution as part of the MPT&E transformation.		

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[P40A / Electronic Procurement System (ePS)]: ELECTRONIC PROCUREMENT SYSTEM (ePS): The electronic Procurement System (ePS) is the Department of the Navy's (DON) End-to-End (E2E) Contract Writing System (CWS). It will provide the Navy and Marine Corps contracting community with a full contract writing management capability and facilitate integration with federally mandated systems, DON financial systems, and industry. The ePS will utilize Department of Defense (DoD) standards and support auditability. The ePS will address existing CWS challenges including outdated architecture, limited capabilities, scalability concerns, and existing legacy systems. Full deployment of the ePS ensures compliance of the DON's contracting abilities with the following legislative mandates: the writing and management of all contracts must now occur in congressionally approved computer systems (Section 862 of the National Defense Authorization Act (NDAA) of 2013); the central management and oversight of all DoD business (10 U.S. Code (U.S.C.) Section 2222); and all contracting actions must be fully auditable and traceable (Section 1003 of the NDAA 2010 & Office of the Secretary of Defense (OSD) Financial Improvement and Audit Readiness (FIAR) Guidance). The ePS will use DoD data exchange capabilities (e.g.; Procurement Data Standard (PDS) and Purchase Request Data Standard (PRDS)) in order to achieve standardized data interoperability with external systems. The Navy Enterprise Service Bus (NESB) serves as the hub to relay procurement data to various finance and other systems of record, such as Navy Enterprise Resource Planning (NERP), Standard Accounting & Reporting System (STARS) and Standard Accounting Budgeting & Reporting System (SABRS). The result of successful ePS implementation will be a contracting workforce that issues accurate and timely contracts in a standard format that comply with all DoD/Federal laws, regulations, and policies. [P40A / Electronic Procurement System (ePS)]: ELECTRONIC PROCUREMENT SYSTEM (ePS): The electronic Procurement System (ePS) is the Department of the Navy's (DON) End-to-End (E2E) Contract Writing System (CWS). It will provide the Navy and Marine Corps contracting community with full contract writing management capability and facilitate integration with federally mandated systems, DON financial systems, and industry. ePS will utilize Department of Defense (DoD) standards and support auditability. ePS will address existing CWS challenges including outdated architecture, limited capabilities, scalability concerns, and existing legacy systems. Full deployment of the ePS ensures DON's compliance with the following legislative mandates: writing and management of all contracts in congressionally approved computer systems (Section 862 of the National Defense Authorization Act (NDAA) of 2013); central management and oversight of all DoD business (10 U.S. Code (U.S.C.) Section 2222); and contracting actions must be fully auditable and traceable (Section 1003 of the NDAA 2010 & Office of the Secretary of Defense (OSD) Financial Improvement and Audit Readiness (FIAR) Guidance). [P40A / Maritime Operations Center (MOC) Procurement]: MOC delivers Navy Command and Control (C2) capabilities at the Operational Level of War (OLW) that guide execution of the six (6) core capabilities of the Navy as outlined in the 2015 A Cooperative Strategy for 21st Century Seapower (Forward Presence and Partnership (HADR), All Domain Access, Deterrence, Sea Control, Power Projection, Maritime Security) through the full range of military operations (ROMO). The MOC initiative focuses on improving the Navy's OLW C2 by establishing baseline capabilities in globally-networked MOCs enabling Numbered Fleet and Navy Component Commanders (NFC/NCC) to assume a range of Service and Joint roles while continuing to accomplish traditional Fleet management functions. The MOC construct enhances C2 of Navy forces at the operational level through headquarters manned by individuals qualified in joint operational-level staff processes and enabled by globally interoperable Command, Control, Communications, Computers, and Intelligence (C4I) systems. MOCs provide organizational consistency, the scalability and flexibility to transition between various command roles, and enhanced global networking among Navy and Joint organizations. The desired end state/goal of the system-of-systems methodology embodied in each of the eight (8) MOCs is to achieve globally-networked operational-level C2 decisions by NCC, Joint Force Maritime Component Commanders (JFMCC) and Commanders of Joint Task Forces (CJTF). Focused acquisition of standard and common suites of systems (from the existing base of Navy, Army, Air Force and joint Programs of Record (PORs) and non-PORs) facilitates successful accomplishment of designated Joint Mission-Essential Tasks (JMETS) aligned to Joint Capability Areas (JCAs) and in support of Combatant Commander Theater objectives. This system of systems approach aims to achieve effective, agile, networked and scalable MOCs, employing common doctrine, standardized processes and common C4I systems. Each MOC will be able to operate within a common organizational construct in various roles (joint, interagency and combined). The global network and commonality enable both reach-back and load-sharing across all MOCs within a Navy enterprise network to include Ballistic Missile Defense (BMD) networks. The eight (8) MOCs consist of nine (9) sites (seven (7) ashore and two (2) afloat) including each of the numbered Fleets (Commander Third Fleet (C3F); Commander Fourth Fleet (C4F); Commander Fifth Fleet (C5F); Commander Sixth Fleet (C6F) ashore and forward afloat; Commander Seventh Fleet (C7F); Commander Tenth Fleet (C10F); Commander Pacific Fleet (COMPACFLT); and U.S. Fleet Forces Command (COMUSFLTFORCOM) NCCs.		

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[P40A / CNIC]: Smart Grid System provides the ability to centrally monitor, manage, and control energy supply and distribution as well as helps to sustain lower cost of shore operations gained through identification and execution of energy efficiency projects. To attain the Navy's Shore Energy Security Goals, funding will be used to support the procurement of the software and equipment suite to connect advanced metering infrastructure (AMI) with building energy controls across various Navy installations via a secure IT network connection. This procurement provides full capability consisting of hardware, software, integration, & operator training necessary to aggregate data from thousands of disparate control systems into a centralized and secure data management system. It provides the operator(s) transparency of the operational condition of building and utility infrastructure and includes advanced analytics that enable timely action for preventive maintenance, prevention of disruption in operations and support of condition based maintenance, supporting mission assurance and bringing further operational savings. Smart Grid is a regional capability that centralizes energy management for multiple bases at each of nine (9) regions. Two of those regions currently have partial Smart Grid capability but need upgrades to achieve the full capability. Regions are prioritized as follows: (1) Fleet concentration areas and mission assurance (cyber security) - MIDLANT (FY16 1st article test), Hawaii, South West, Marianas, South East (2) OCONUS - EURAFSWA, Far East (3) Upgrade (backfit) existing Smart Grids - NDW, Northwest [P40A / United States Fleet Forces Command]: The procurement of Command Support Equipment involves the purchase, replacement and upgrade of various types of equipment, to include, but not limited to, critical cable plant repair / upgrade, Voice, Video, and Data Infrastructure and security disintegrators / systems at 114 world-wide Base Communications Office (BCO) sites throughout the Pacific and Atlantic areas of responsibility. The FY 2019 funding request was reduced by \$3.590 million to account for the availability of prior year execution balances. BASE COMMUNICATIONS OFFICE (BCO): Telephone switch Uninterruptible Power Supply (UPS) - Procure and install telephone switch UPS and rectifier systems at CONUS/OCONUS locations which are necessary in order to remedy safety concerns, hazardous situations and performance deficiencies. BASE COMMUNICATIONS OFFICE (BCO) INFRASTRUCTURE REPLACEMENT/UPGRADE (CABLE & EQUIPMENT): Base Communications Office (BCO) provides telecommunications services to include the transport of voice, video and data information at 114 world-wide sites. The BCO is responsible for the daily operations and maintenance of Base Telecommunication services, devices and systems. FY19 funding will allow for immediate repair of cable/equipment. It provides the ability to respond to casualties and to upgrade when necessary for BCOs. INFOCON 3: Funding required for the procurement of software, licensing upgrades and technical support, to include patches and version upgrades as required, for the Joint Information Management System (JIMS). This software enables JIMS capability to work across systems (Navy to Joint); provides reciprocal communications via web service calls; allows process and technology interfaces for incident reporting, and provides situational awareness of U.S. Navy incidents. DEFENSE RED SWITCH NETWORK (DRSN): Procure and install 5 new DSS-2A red switch systems. Must replace obsolete DRSN switches to maintain operation of Navy DRSN sites. DRSN is the only secure voice system that provides a single user desktop platform Integrated Services Telephone (IST) that allows interface/access to multiple strategic and tactical secure voice systems. EQUIPMENT PROCUREMENT FOR C10F MOC: Funding for equipment procurement and sustainment for Maritime Operations Center (MOC) architecture for the Enterprise. Funding provided to procure and install Maritime Operations Center/Marine Headquarter (MOC/MHQ) to provide common operational picture. Common MOC architecture will provide the command the ability to paint a global picture of network health and defense. DEPLOYABLE MISSION SUPPORT SYSTEMS (DMSS): Beginning in FY18, funding for DMSS kits will be used to support simultaneous team deployments with the primary mission to survey, secure, and protect military networks aboard Navy ships, data centers, and shore sites worldwide which necessitates onsite vulnerability assessments and incident response on little to no notice. DMSS kits are required to allow deployed teams to conduct intensive, computationally-heavy analysis when reach-back capability is unavailable or bandwidth is limited. Navy Cyber Protection Teams (CPTs) located in CONUS will		

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be required to deploy cyber planning and incident response elements into theater to support C4F, C5F, and C6F mission assurance objectives to include identification of cyber key terrain and Operation Plan (OPLAN) development. The DMSS kits are simple modifications and have no installation costs associated since the work will be performed at the Navy organizational level. ELECTRICAL POWER SYSTEMS: FY19 funding to procure, install, and replace generators and uninterruptible power supply (UPS) systems to provide highly reliable, continuous, high quality power subsystems to support Fleet Cyber Command. Some of the operational load is designated as "critical" and requires UPS Systems for instantaneous application in case of loss or disturbance of the primary power source. Navy Space / Aggressor Support Threat Satellite Communications Systems Procurement (NAVIFOR): Provides adversary space threat academics and opposition forces (OPFOR) space threat via live replication during Fleet exercises. Supports Space Aggressor "teach" and live jamming events for CSG-4/CSG-15 integrated events. The USFF/CPF Fleet Training Continuum instruction directs the Navy to adopt an integrated training capability to train Navy forces to high-end threats in a contested environment. Requirement approved as part of Fleet Training Wholeness (2025) Live Virtual Constructive (LVC). The FY19 OPN funding will procure three training systems to be used by the Navy Space Adversary Team (N-SAT). [P40A / NAS Sigonella - Comms Center]: The mission of Naval Computer and Telecommunications Station Sicily (NAVCOMTELSTA Sicily) is to bring decision superiority to operational forces, deny it to the enemy, and provide the operational platform for information - secure and reliable, classified and unclassified voice, messaging, video, and data telecommunications to United States (U.S.) Naval, Joint, Interagency, and Allied operating forces in and around southern Italy. NAVCOMTELSTA Sicily provides reliable and enduring Command, Control, Communications, Computers and Intelligence (C4I) and Information Technology (IT) services to the Defense Information Systems Agency (DISA), Fleet Forces Command and its units afloat, Navy shore facilities in Europe, tactical units of all Service Components and transmission continuity throughout the Mediterranean Area of Responsibility (AOR). There is a requirement for a safe, secure, efficient, and adaptable facility that provides NAVCOMTELSTA personnel the ability to accomplish assigned missions. NAVCOMTELSTA Sicily operates a Technical Control Facility (TCF), which contains the equipment necessary for ensuring a fast, reliable, and secure exchange of information. It typically includes distribution frames and associated panels, jacks, switches, monitoring, testing, conditioning, and ordering wire equipment. The TCF allows telecommunications systems control personnel to exercise operational control of communications paths and facilities, make quality analyses of communications and communications channels, monitor operations and maintenance functions, recognize and correct deteriorating conditions, restore disrupted communications, provide requested on-call circuits, and take or direct such actions, as may be required and practical, to provide effective telecommunications services. The TCF also performs basic functions for receiver and transmitter sites remotely. These include tuning, equipment patching, quality monitoring of received or radiated signals, switching or directional control of antennas, primary ship-to-shore circuit operations, and the submission of required reports. To perform these operations, NAVCOMTELSTA Sicily requires a telecommunications facility that will provide reliable and sustained C4I and IT services throughout the Mediterranean AOR. [P40A / NCTAMS Det Souda Bay - Comms Center]: Naval Computer and Telecommunications Area Master Station Atlantic Detachment (NCTAMS LANT DET) Souda Bay provides voice, video, and data services to NSA Souda Bay. These services include Defense Switch Network, commercial voice, and Non-secure Internet Protocol Router Network (NIPRNET) and Secure Internet Protocol Router Network (SIPRNET) services. National Airborne Operations Center officially uses NSA Souda Bay to support its operations and requires a strong level of communications support. The airfield, port, several NATO facilities, and geographical location make NSA Souda Bay an invaluable support location for many exercises, both NATO and U.S. hosted. [P40A / C4I/IT Equipment Naval Computer and Telecomm Atlantic]: Naval Computer and Telecommunications Area Master Station Atlantic - NCTAMSLANT is one of two Major Communications Stations (MCS). NCTAMS LANT provides reliable and enduring Command, Control, Communications, Computers and Intelligence (C4I) and Information Technology (IT) services to the Defense Information Systems Agency (DISA), Fleet Forces Command and its units afloat, Navy shore facilities in the eastern U.S., Middle East, Africa and Europe, tactical units of all Service Components and transmission continuity throughout the Atlantic (LANT) Area of Responsibility (AOR). There is a requirement for a safe, secure, efficient, and adaptable facility with Open Architecture (OA) that aggregates NCTAMS LANT personnel dispersed across Naval Station (NAVSTA) Norfolk, including the Fleet Network Operations Center (FLTNOC) in Building (Bldg.) NH-95, and co-locates communications equipment and watch floors into a common area to accomplish assigned missions. NCTAMS LANT also exercises operational direction for Navy telecommunications assets in Virginia, Maine, Florida, North Dakota (NCTAMS LANT Detachment Lemoore), Guantanamo Bay Cuba, Puerto Rico, Spain, Italy, Greece, Iceland, Bahrain and Djibouti and coordinates all GIG, Defense Information Systems Network (DISN), Defense Switched Network (DSN) and commercial services in the Tidewater, Virginia area.		

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NCTAMSLANT is one of two Major Communications Stations (MCS) thus C4I requirements, efforts, and cost are higher than subordinate Commands.		
[P40A / New Joint Regional Security Stack (JRSS)]: Funds supports the Navy's transition to the Joint Regional Security Stack (JRSS)/Service Migration Team (SMT) to enhance the Department of Defense (DOD)firewall functions, intrusion detection and prevention, enterprise management, virtual routing and cyber network security capabilities. JRSS defends the cyber warfighting domain and resolves the Joint Information Environment (JIE) Initial Capabilities Document (ICD) gaps by shrinking the attack surface area. JRSS also achieves standard network security architecture and accelerates a standardized command and control platform for JIE.		
[P40A / C4I Equipment Naval Computer and Telecomm Station Det Rota Spain]: NCTAMS Det Rota acts as a hub and provides communications services to Naval Station Rota,Spain and Naval units in Madrid, Valencia, Lisbon (Portugal), and Gibraltar for approximately 10,000 DoD personnel. In addition to this defense telecommunication capacity, NCTAMS provides commercial telecommunication services to Naval Station Rota users. Commercial fiber and copper lines come into the base via Building 3307, the main telephone switch facility. From this facility, DoN managed copper and fiber cables are routed throughout NAVSTA Rota so that communications data can be distributed to interconnecting five remote telephone switch nodes. NCTAMS LANT Det Rota significant Joint Support includes: - Provide direct C4I support for USEUCOM, USAFRICOM, USCENTCOM, and USTRANSCOM. Rota is TRANSCOM's premier en route air mobility hub for support to EUCOM, CENTCOM and AFRICOM. - Provide COMSEC support for Strike Force NATO in Lisbon, Portugal. Constructs a new consolidated, secure, state-of-the-art, communications station and support facility. Project will allow consolidation of administrative, personnel and operational support functions into a new facility and subsequent demolition of eleven old and deteriorated buildings.		
Naval Computer and Telecommunications Station (NCTS) Rota is smaller than NCTAMSLANT thus C4I requirements, efforts, and cost are less than higher Commands.		
[P40A / BCO Infrastructure Replacement (Cable & Equipment)]: Naval Computer and Telecommunications Station Far East (NCTSFE) requires Fiber Optic Backbone Realignment on Fleet Activities Yokosuka. BLII engineering and installation did not ensure nor provide for redundancy in case of meteorological, geological, or intentional service interruption. Out-side plant Fiber has been installed by many different efforts with no logical hierarchy and no redundancy to the critical C2 nodes as there are actually five separate fiber optical backbones that do not connect. Current optical backbone infrastructure will not support Assured Services LAN (ASLAN) in accordance with DOD Unified Capability Requirements (DOD UCR 2008) allowing converged distribution of voice, video and data services to include redundancy and diversity of critical C2 and special C2 infrastructure. This results in C2 buildings being single-threaded and at great risk of potential loss of service in a catastrophic event. Key users who will lose connectivity include the NATIONAL COMMAND AUTHORITIES, Combatant Commanders of the Unified Commands, and strategic and tactical subordinate commanders.		
Additional cost starting in FY18 and rising in FY19 are due to new/upgraded Base Communication Office (BCO) Outside cable plant infrastructure upgrades required to comply with Unified Capabilities (UC) specifications IAW DoDI 8100.04. Unified Capabilities are the integration of voice, video, and/or data services delivered ubiquitously across a secure and highly available infrastructure, independent of technology, to provide increased mission effectiveness to the warfighter and business communities.		
[P40A / Electrical Power Systems]: Procurement Plan Electrical Power: Replacing satellite communications (SATCOM) power control panels at the NAVSATCOMFAC in Wahiawa, Hawaii. SATCOM, inclusive of Teleport, is a DoD Acquisition Category 1 (ACAT I) Acquisition Major Automated Information Systems (MAIS) program. Navy manages 7 of the DoD Gateway sites (Wahiawa, Guam, Diego Garcia, Australia, Chesapeake, Lago Patria, and Bahrain). DOD Teleport is a Joint program that is interoperable with Joint, Allied, and Coalition operations, providing multi-band satellite communications capability and seamless access to terrestrial components of the DISN for worldwide operations. Joint Requirements Oversight Council Memorandum (JROCM) 140-00 (Aug 28, 2000) "Teleport addresses the warfighter's growing requirements for emerging deployed military and commercial SATCOM systems interfaces into key DISN and legacy C4I services". Any degradation of the Wahiawa NAVSATCOMFAC will directly impact joint warfighters requiring services provided in the Pacific AOR and could result in catastrophic failures.		
The variance in unit cost between PB18 and the PB19 budget submit is due to offsets related to emergent C4I/IT requirements creating an acceptance of greater risk for the emergency power program. At PB18 FY18, the program planned to procure and install two uninterruptible power supply (UPS) systems supporting high frequency global communications systems (HFGCS) in Hawaii and Guam. For FY19 the program plans to procure and install two UPS systems supporting high HFGCS in California and Diego Garcia. The higher PB19 FY19 cost when compared to PB18 FY18 is due in part to inflation and in part to elevated costs of platform support in Diego Garcia that is only partially offset from reduced costs of platform support in California.		

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[P40A / INFOCON 3 - Security Compliance]: FY18 INFOCON 3 Procurement Plan: Operation ROLLING TIDE (ORT) Remediation outstanding tasking includes Host Based Security System (HBSS) modernization, Global computer network defense enclave hardening, addition of analytical capacity at NCDOC, establishing continuous monitoring, Noesis, and web risk assessment. Increase from FY17 to FY18 supports Hardware/software for enhancing Defensive Cyberspace Operations (DCO) enterprise capabilities and increasing analytical capacity, Continuous Monitoring and Risk Scoring implementation as part of the cyber defense mission support system, HBSS mission system changes to provide Attack Sensing and Warning to mitigate host level malicious activity. Additionally, increase supports Cyber Defense Mission Support System which increases capacity to ingest, process, analyze, store, combat advance persistence threats against Navy networks, report new and emerging data sets, and ensure web vulnerability protection by performing risk assessment. [P40A / Defense Red Switch Network Replacement]: Defense Red Switch Network (DRSN) is a separate, secure switched network that is considered part of the DISN providing high quality, secure voice communications, secure data communications, and secure conferencing capabilities to the senior decision-makers and Combatant Commanders. DRSN provides the National Command Authority (NCA), the National Military Command Center (NMCC), Combatant Commander Command Centers, Warfighters, and other critical DoD and federal activities with reliable, secure, interoperable Command and Control (C2) and crisis management capabilities. The variance in unit costs and quantity between PB18 and the PB19 budget submits is due to the quantity remaining unchanged while the level of effort decreases. The facility being upgraded is a GENSER location. At PB18 FY18, the facility does not require the additional security that a SCIF would. However, the facility will be required to be upgraded in the future as mandated by Defense Information Systems Agency (DISA). [P40A / Deployable Mission Support Systems (DMSS)]: Per System Requirements, each Cyber Protection Team (CPT) must be provisioned with 2 Deployable Mission Support Systems (DMSS) to support two simultaneous team deployments (40 total). The CPTs primary mission is to Survey, Secure, and Protect military networks (aboard Navy ships, data centers, and shore sites worldwide) which necessitates onsite vulnerability assessments and incident response on little to no notice. Field deployable computing assets for the 20 Navy CPTs are required to allow deployable teams to conduct intensive, computationally-heavy analysis when reach-back capability is unavailable or bandwidth is limited. In addition, Navy CPTs located in CONUS will be required to deploy cyber planning and incident response elements into theater to support C4F, C5F, C6F and C7F mission assurance objectives to include identification of cyber key terrain and Operation Plan (OPLAN) development. The DMSS kits are simple modifications and have no installation costs associated since the work will be performed at the Navy organizational level. [P40A / Briefing Display System Upgrade]: PNCSE - Briefing Display System Upgrade (NAVCENT): Procure and install NAVCENT HQ Briefing and Display System (BDS) Upgrade. Coalition partners are currently standing operations on the C5F Maritime Operations Center (MOC) Watch Floor which is powered by the BDS. All Coalition missions are observed and monitored within the MOC and both C5F and Coalition forces use BDS throughout the rest of NAVCENT HQ to include the War Room, MOC conference room, and within Flag Officer spaces. BDS is a critical capability to allow US, and Coalition Nations, to pursue Strategic Security Objectives within the CENTCOM Area of Responsibility. In addition the BDS capability can be configured to share Situational Awareness with Higher Echelons of Command and Peer Commands. The new BDS system will replace the current architecture and allow for capability enhancements to provide increased strategic Command and Control, be CYBERSAFE Compliant, allow for flexibility to adjust displays with the MOC Watch Floor and secure conference rooms. The BDS is the primary battle space awareness tool used by the Combined Maritime Forces US and Coalition Watch Team as well as NAVCENT leadership Command and Control. BDS is a multifaceted Video Information System providing battle-space awareness video to the Combined Maritime Operation Center (CMOC), Alternate Maritime Operations Center (AMOC), War Room, Flag/Coalition Command Suite, Department Head offices, conference rooms and key coalition leadership. BDS is essential to US and Coalition leadership command and control of all naval forces in the CENTCOM area of responsibility. BDS is currently part of Core Build/Mission Build (CB/MB) for every Fleet Maritime Operations Center (MOC) as annotated in OPNAVINST 3500.42 "Maritime Operations Standardization". [P40A / Undersea Warfare Decision Support System - CNE]: NAVEUR Undersea Warfare Decision Support System. Funds will provide for procurement of MD-1324 modem and two systems installs at HQ MOC CTF-69 and CTF-67 for P3-8 Integration. Details held at a higher classification. [P40A / Maritime Operations Center (MOC) Server Room]: Supplemental funding requested for engineering, procurement and installation services in support of MOC C2 server room relocation and reconfiguration. NAVCENT MOC C2 Server Room houses all the mission essential equipment for both the Warfighting Mission Area (WMA) and Enterprise Information Environment Mission Area (EIEMA) used by the Combined Maritime Forces US and Coalition Watch Team as well as NAVCENT leadership Command and Control. MOC C2 systems provide Combined Maritime Operation Center (CMOC), Alternate Maritime Operations Center (AMOC), War Room, Flag/Coalition Command Suite, Department Head offices, conference rooms and key coalition leadership with critical decision making information to allow Naval Forces Central Command and Combined Maritime Forces Commander to direct.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command Support 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: N/A		
[P40A / Briefing Display System (BDS) Delta]: Update of BDS system to replace the current system and allow for capability enhancements to provide increased strategic Command and Control capability enhancements, be CYBERSAFE Compliant, and allow NAVCENT to "buy back" up to 20KW of power in order to support other critical system installations. [P40A / Navy Enterprise Tactical Command and Control (NETC2)]: The Navy Enterprise Tactical Command and Control, NETC2, is an integrated command and control headquarters which enables a commander to set up a self-contained, self-powered, computer network-enabled temporary headquarters facility anywhere in the world within 6 - 24 hours of arrival at a location. This system will replace the current JMAST CENT. The current JMAST in NAVCENT's current Command and Control (C2) systems Continuity of Operations (COOP) site; it was decommissioned as of 30 Sept 2016 with no replacement identified. Navy Enterprise Tactical Command Control (NETC2) offers a one-for-one replacement of the existing JMAST capabilities. JMAST is antiquated and cannot be made Information compliant in its current state. Moreover, JMAST is comprised of legacy equipment that is no longer supported by the Program of Record (POR). [P40A / U.S. Pacific Fleet]: The U.S. Pacific Fleet utilizes Command Support procurement funds for the purchase of equipment in support of Fleet Operations in the Pacific AOR. [P40A / Canopy Shelters]: Temporary Enclosed Dehumidified Tension Fabric Structures to Store Attrition Aircraft at Naval Base Coronado. [P40A / Tension Fabric Shelters]: Temporary Enclosed Dehumidified Tension Fabric Structures to conduct backlog maintenance on FA-18E/F aircraft at Naval Air Station Lemoore [P40A / Authoritative Data Environment]: ADE is part of the Navy's MPT&E IT Transformation initiative aligned directly with the Authoritative Data Environment technology component of the transformation. ADE is aimed at transitioning the current project based ADE into a full enterprise solution that is based on modern IT service models and cloud hosting technology. The transformation initiative will consolidate multiple legacy data warehouses and stream that data through a single, authoritative environment. This will advance data analytics and visualization capabilities, and add common platform services in a big data environment that is consistent with private industry. This acceleration toward a true Navy-wide personnel authoritative data environment is a transformational increase in capability for decision support and improving personnel readiness.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment					P-1 Line Item Number / Title: 8106 / Command Support 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: 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-40a	Command Support Equipment	P-5a, P-21			- / 120.725	- / 44.666	- / 88.376	- / 66.681	- / -	- / 66.681
P-40	Total Gross/Weapon System Cost				- / 120.725	- / 44.666	- / 88.376	- / 66.681	- / 0.000	- / 66.681
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: NCIS Data Modernization & Analytical Tools Funding required to support components of NCIS' NJIS Scanning, Tactical Network and VTC infrastructure initiatives. As the DON begins the roll-out of NJIS, NCIS has a requirement to deploy a variety of high speed scanning capabilities across the enterprise to capture investigative data. NCIS is under development to host critical investigative and operational capabilities which will provide a secure and private environment that allows the investigative technical components of the organization to conduct their mission more efficiently. A number of investigative tools and techniques will leverage this tactical network to include Investigative Cyber Security; Technical Services; Cyber, Technical Surveillance Counter Measures (TSCM), Tech Services, Bio-Metrics, etc. Currently, these capabilities are scattered across separate networks and are not integrated or available to the agency as a whole. Furthermore, NCIS' conference rooms and Leadership Desktop Units are reaching end-of-life and replacement of these systems will give NCIS the capabilities to securely communicate about ongoing investigative and operational sensitive cases to support mission requirements. Office of Civilian Human Resources (OCHR): Human Resources IT System Funding required to provide information technology system support for over 204,000 civilians at more than 1,340 naval activities throughout the world. These systems are the core of human resource support for the Department of the Navy. The OCHR Systems Division has the responsibility to implement, sustain, and support the hardware, software, systems and applications, functional administration, and communications infrastructure in accordance with the Department of Navy Chief Information Office, Naval Network Warfare Command, Navy Marine Corp Intranet, and DOD Civilian Personnel Management Services mandates, directives, and policies. The technology for the myriad of human resource applications requires upgrades and/or additional capability to support and maintain the integrity of these systems cost effectively. DON Financial Improvement Program (FIP) Formed in response to Congressional mandates for Navy-Marine Corps and the rest of the Defense Department to achieve financial auditability. The FIP is a Department-wide multi-year change management effort which requires fundamental improvements to processes and systems as well as to the business culture to implement those strengthened internal controls. Increase in FY19 required for the STARS to SABRS (S2S) transition hardware and software (HW/SW) required for supporting DON SABRS/SMARTS. This funding addresses the many HW/SW requirements to transition the 11 BSOs migrating over to SABRS. Implementation allows DON to comply with OSD's Financial Management (FM) Functional Strategy, to (1) simplify the financial management environment; (2) make the environment more efficient; and, (3) generate auditable budget and accounting data. Insider Threat Funds were transferred from MIP OPN LI 8114. This effort is to procure, configure, and install hardware and software in support of the Insider Threat program. EMPRS Increase from FY18 to FY19 funds critical workstation tech refreshes and content management HW/SW and reflect lower unit cost due to Economies of Scale due to quantity increase. Converged Enterprise Resource Planning (ERP) \$2.5M increase is required for infrastructure modernization of the Navy ERP database platform. This modernization will improve cyber security management, minimize process customizations, and improve system performance; specifically enhancing business critical transactions, reports, and facilitating faster month-end/year-end financial closing.										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command Support 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: N/A		
The Navy ERP system has gained more than 30% utilization across multiple databases resulting in substantial growth in data storage and retention since inception. Data storage has continued annual growth resulting in more than 60TB of data driving the requirement for the increased OPN funding. Additionally, several infrastructure components need to be refreshed because they are nearing end of life and are subject to higher failure rates causing reliability concerns in infrastructure performance. NSIPS now known as Navy Personnel and Pay System (NP2) In FY19 NP2 will purchase ashore equipment (hardware and software) to provide the additional capacity and capabilities required by Transformation initiatives, and to meet Information Assurance requirements. Funds will be used to procure servers, CAC verification and load balancing devices, computer storage, and associated software for the NP2 web ashore development, test, production, and COOP environment hosting. Funds will be used to procure licenses to improve productivity and reduce future development, along with professional services to reduce sustainment costs of added back office functionality necessary to align with the Navy's Transformation effort. In FY19 additional licenses are required to increase Cyber Security and add necessary security modules limiting Information Assurance (IA) vulnerabilities. These licenses are needed to improve system security, improve auditability, reduce the amount of PeopleCode required for development and sustainment of additional functionality. ELECTRONIC PROCUREMENT SYSTEM (ePS) FY19 funding is for the procurement of user licenses for the limited deployment of ePS. Maritime Operations Center (MOC): The FY 2019 funding will provide for procurement, production engineering, integration and installations required to continue incremental improvements of the common capabilities of the MOCs, leading to fully-integrated, globally-networked operational-level commands with a Navy enterprise network and appropriate capabilities to exercise Command and Control (C2) over Navy missions, such as Ballistic Missile Defense (BMD), in accordance with MOC baseline requirements. CNIC: SMARTGRID Smart Grid Energy Management Computer Software Suite Description: Smart Grid is a new building and utility energy management capability comprised of a computer software suite that through daily operations brings significant savings from predictive maintenance and efficient management of energy sources across the Navy's 70 CONUS and OCONUS installations. The Smart Grid provides first time capability to intelligently analyze energy data from 16,849 smart meters previously installed to comply with the Energy Policy Act 2005 (Public Law 109-58-August 8, 2005) and the Energy Independence and Security Act 2007 (Public Law 110-140-December 19, 2007). The Smart Grid aggregates meter data with highest energy consuming 2042 buildings and 174 utility control systems to intelligently and continuously identify cost savings opportunities, providing 2 of the 8 Trillion BTU energy savings needed to achieve the 50% Navy energy reduction target. The Smart Grid brings first time transparency of building and utility system operations and behavior, essential to both monitor for, and react to, a cyber-event. Funding for the Smart Grid program varies FY17-19 based on the phased Smart Grid deployment schedule. FY17 funding of 7.2M was utilized to deploy Smart Grid capabilities in one region. FY18 funding of 13.8M will be used to fund deployment in two regions as well as a test bed capability. FY19 funding of 10.2M will be utilized to fund deployment at two regions. C4I/IT Equipment Naval Computer and Telecomm Atlantic Funding supports planning, design, relocation, procurement and installation of mission related command, control, communications, computers and intelligence/Information Technology (C4I/IT) equipment to new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility. Increase will strengthen the Navy's ability to regionally manage networks and telecommunications, effectively respond to Navy Component and Fleet Commanders, contribute to transparent shared situational awareness (SA), track and characterize cyberspace threats and their relative impact on network operations, monitor and defend the security posture of the networks through distributed defensive cyberspace operations and enable Commander, Tenth Fleet (COMTENTHFLT) to standardize Command and Control (C2) of Navy networks. Specifically funds will buy: *Navy Time and Sync (FY19 and FY20) *Visualization Collaboration system (FY19 and FY20) NCTAMS Det Rota Spain C4I		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command Support 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: N/A		
Increase supports the planning, design, relocation, procurement and installation of mission related Command, Control, Communications, Computers, and Intelligence (C4I) and Information Technology equipment to the new Naval Computer and Telecommunications Station LANT, Det Rota Spain. Naval Station Rota is responsible for providing secure and reliable classified and unclassified voice, messaging, video and data telecommunication to more than 10,000 users including Forward Deployed Naval Forces. Communication outage risks are attributed to degraded facility conditions and flooding. Without investment, the Navy risks communication outages.		
Electrical Emergency Power System The variance in unit cost between PB18 and the PB19 budget submit is due to offsets related to emergent C4I/IT requirements creating an acceptance of greater risk for the emergency power program. At PB18 FY18, the program planned to procure and install two uninterruptible power supply (UPS) systems supporting high frequency global communications systems (HFGCS) in Hawaii and Guam. In FY19 the program plans to procure and install two UPS systems supporting high HFGCS in California and Diego Garcia. The higher FY19 cost is due in part to inflation and in part to elevated costs of platform support in Diego Garcia that is only partially offset from reduced costs of platform support in California.		
Computer Network Defense system Updates Variance in unit costs and quantity between PB18 and PB19 budget submits for FY18-FY19 are due to planned "spiral implementation" of Cyber upgrades, in support of the Navy Cyber Defense Operations Command - Cyber Network Defense Mission Support System (CDMSS). In FY18, funds support Hardware/software for enhancing Defensive Cyberspace Operations (DCO) enterprise capabilities and increasing analytical capacity, Continuous Monitoring and Risk Scoring implementation as part of the cyber defense mission support system, HBSS mission system changes to provide Attack Sensing and Warning to mitigate host level malicious activity. In FY19, hardware and Software procurements are still required, at lower levels than in FY18.		
Defense Red Switch Network replacement/upgrade The variance in unit costs between FY18 and FY19 is due to lower effort required in FY19 when compared to the FY18 requirements/upgrades. The facility being upgraded is a GENSER location and At PB18 FY18, the facility required the additional security upgrades which are not required for the FY19 upgrade.		
Deployable Mission Support Systems (DMSS) Per USCYBERCOM System Requirements Document, each CPT must be provisioned with 2 Deployable Mission Support Systems (DMSS) to support two simultaneous team deployments (40 total). The CPTs primary mission is to Survey, Secure, and Protect military networks (aboard Navy ships, data centers, and shore sites worldwide) which necessitates onsite vulnerability assessments and incident response on little to no notice. Field deployable computing assets for the 20 Navy CPTs are required to allow deployable teams to conduct intensive, computationally-heavy analysis when reach-back capability is unavailable or bandwidth is limited. In addition, Navy CPTs located in CONUS will be required to deploy cyber planning and incident response elements into theater to support C4F, C5F, and C6F mission assurance objectives to include identification of cyber key terrain and Operation Plan (OPLAN) development. The DMSS installations are simple modifications and have no installation costs associated since the work will be performed at the Navy organizational level.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2								P-1 Line Item Number / Title: 8106 / Command Support Equipment								Aggregated Items Title: Command Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	
1) NCIS																					
1.1) NCIS Data Modernization & Analytical Tools ^{(1)(t)}	A		2,287.600	5	11.438	1,592.000	1	1.592	3,652.000	1	3.652	2,439.000	1	2.439	-	-	-	2,439.000	1	2.439	
Subtotal: 1) NCIS			-	-	11.438	-	-	1.592	-	-	3.652	-	-	2.439	-	-	-	-	-	2.439	
2) Tech Refresh																					
2.1) OCHR - Human Resource IT system ^(t)	A		420.833	6	2.525	520.000	1	0.520	442.000	1	0.442	446.000	1	0.446	-	-	-	446.000	1	0.446	
2.2) FIP ^{(2)(t)}	A		1,989.500	2	3.979	1,927.000	1	1.927	2,690.000	1	2.690	3,055.000	1	3.055	-	-	-	3,055.000	1	3.055	
Subtotal: 2) Tech Refresh			-	-	6.504	-	-	2.447	-	-	3.132	-	-	3.501	-	-	-	-	-	3.501	
3) Insider Threat																					
3.1) Operational Spares ^(t)	A		-	-	-	-	-	-	200.000	1	0.200	346.000	1	0.346	-	-	-	346.000	1	0.346	
3.2) Configuration / Install ^(t)	A		-	-	-	-	-	-	175.000	1	0.175	302.000	1	0.302	-	-	-	302.000	1	0.302	
3.3) Hardware/ Software License Procurement ^(t)	A		-	-	-	-	-	-	535.000	1	0.535	903.000	1	0.903	-	-	-	903.000	1	0.903	
3.4) ONI Refresh Hardware/Software ^(t)	A		-	-	-	-	-	-	90.000	1	0.090	156.000	1	0.156	-	-	-	156.000	1	0.156	
Subtotal: 3) Insider Threat			-	-	0.000	-	-	-	-	-	1.000	-	-	1.707	-	-	-	-	-	1.707	
4) Electronic Military Personnel Record System (EMPRS)																					
4.1) Servers ^(t)	A		113.043	23	2.600	157.143	7	1.100	-	-	-	-	-	-	-	-	-	-	-	-	
4.2) Content Management HW SW ^(t)	A		8.837	221	1.953	-	-	-	20.190	39	0.787	18.741	85	1.593	-	-	-	18.741	85	1.593	
4.3) Records Mgmt SW ^(t)	A		768.000	4	3.072	-	-	-	450.000	1	0.450	-	-	-	-	-	-	-	-	-	
4.4) Configuration Management HW SW	A		142.500	2	0.285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.5) Selection Board Management HW SW ^(t)	A		10.235	34	0.348	6.000	22	0.132	1.806	253	0.457	-	-	-	-	-	-	-	-	-	
4.6) Client Management HW SW ^(t)	A		500.000	2	1.000	0.760	267	0.203	1.000	280	0.280	1.000	2	0.002	-	-	-	1.000	2	0.002	
4.7) Network Management HW SW	A		22.581	31	0.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.8) Network Devices	A		149.714	7	1.048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.9) Storage Devices	A		214.455	22	4.718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8106 / Command Support Equipment						Aggregated Items Title: Command Support Equipment								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
4.10) Workstations (Sel Board) ^(†)	A		3.226	527	1.700	-	-	-	-	-	-	4.875	8	0.039	-	-	-	4.875	8	0.039
4.11) Scanners High Speed	A		67.471	17	1.147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.12) Peripherals ^{(3)(†)}	A		44.071	56	2.468	3.000	60	0.180	-	-	-	49.000	1	0.049	-	-	-	49.000	1	0.049
4.13) Sel Board Display ^(†)	A		249.000	2	0.498	-	-	-	152.000	2	0.304	-	-	-	-	-	-	-	-	-
Subtotal: 4) Electronic Military Personnel Record System (EMPRS)			-	-	21.537	-	-	1.615	-	-	2.278	-	-	1.683	-	-	-	-	-	1.683
5) Electronic Security System (ESS) Replacement/Upgrade																				
5.1) Electronic Security System (ESS) Replacement Update	A		7,903.000	1	7.903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) Electronic Security System (ESS) Replacement/Upgrade			-	-	7.903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) System - Crisis Announcement																				
6.1) Control Unit	A		225.000	3	0.675	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) Speakers/Strobes/Message Displays	A		0.933	150	0.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) Remote Control/Monitoring Units	A		2.500	70	0.175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) Remote Alert System	A		1.000	55	0.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.5) Alert Status Communications	A		1.000	20	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.6) Power Supplies	A		2.500	24	0.060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.7) Wiring, Installation, Testing	A		375.000	1	0.375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) System - Crisis Announcement			-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) MPTE Core Transformation																				
7.1) MPTE Core Transformation PeopleSoft Licenses ^{(4)(†)}	A		-	-	-	29.000	100	2.900	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 7) MPTE Core Transformation			-	-	0.000	-	-	2.900	-	-	-	-	-	-	-	-	-	-	-	-
8) Converged ERP																				
8.1) Converged ERP ⁽⁵⁾	A		-	-	0.765	-	-	0.873	-	-	4.201	-	-	6.706	-	-	-	-	-	6.706
Subtotal: 8) Converged ERP			-	-	0.765	-	-	0.873	-	-	4.201	-	-	6.706	-	-	-	-	-	6.706

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8106 / Command Support Equipment								Aggregated Items Title: Command Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
9) Navy Personnel and Pay (NP2) Formerly NSIPS																				
9.1) Ashore Equipment ⁽⁶⁾	A		-	-	0.573	-	-	0.536	-	-	2.755	-	-	8.959	-	-	-	-	-	8.959
Subtotal: 9) Navy Personnel and Pay (NP2) Formerly NSIPS			-	-	0.573	-	-	0.536	-	-	2.755	-	-	8.959	-	-	-	-	-	8.959
10) Electronic Procurement System (ePS)																				
10.1) Electronic Procurement System (ePS)	A		-	-	-	-	-	1.875	-	-	3.658	-	-	2.701	-	-	-	-	-	2.701
Subtotal: 10) Electronic Procurement System (ePS)			-	-	0.000	-	-	1.875	-	-	3.658	-	-	2.701	-	-	-	-	-	2.701
11) Maritime Operations Center (MOC) Procurement ⁽⁷⁾																				
11.1) Baseline Equipment - Ashore ^{(8)(t)}	A		439.431	58	25.487	188.286	7	1.318	230.143	7	1.611	236.857	7	1.658	-	-	-	236.857	7	1.658
11.2) Baseline Equipment - Afloat ^{(9)(t)}	A		251.667	6	1.510	211.000	2	0.422	227.150	2	0.454	233.500	2	0.467	-	-	-	233.500	2	0.467
Subtotal: 11) Maritime Operations Center (MOC) Procurement			-	-	26.997	-	-	1.740	-	-	2.065	-	-	2.125	-	-	-	-	-	2.125
12) Maritime Operations Center (MOC) Production Support																				
12.1) Production Support - Ashore	A		-	-	0.790	-	-	0.084	-	-	0.091	-	-	0.095	-	-	-	-	-	0.095
12.2) Production Support - Afloat	A		-	-	0.093	-	-	0.028	-	-	0.031	-	-	0.032	-	-	-	-	-	0.032
Subtotal: 12) Maritime Operations Center (MOC) Production Support			-	-	0.883	-	-	0.112	-	-	0.122	-	-	0.127	-	-	-	-	-	0.127
13) Maritime Operations Center (MOC) Ashore Installations																				
13.1) Installations - Ashore	A		-	-	15.504	-	-	0.761	-	-	0.818	-	-	0.830	-	-	-	-	-	0.830
Subtotal: 13) Maritime Operations Center (MOC) Ashore Installations			-	-	15.504	-	-	0.761	-	-	0.818	-	-	0.830	-	-	-	-	-	0.830
14) Maritime Operations Center (MOC) Afloat Installations																				
14.1) Installations - Afloat	A		-	-	0.866	-	-	0.215	-	-	0.231	-	-	0.234	-	-	-	-	-	0.234
Subtotal: 14) Maritime Operations Center (MOC) Afloat Installations			-	-	0.866	-	-	0.215	-	-	0.231	-	-	0.234	-	-	-	-	-	0.234
15) CNIC ⁽¹⁰⁾																				
15.1) SG Software Procure & Install ^{(11)(t)}	A		1,406.000	1	1.406	1,707.000	1	1.707	1,718.000	2	3.436	1,265.500	2	2.531	-	-	-	1,265.500	2	2.531
15.2) Common Operating Picture &	A		459.000	1	0.459	808.500	1	0.809	766.000	2	1.532	564.500	2	1.129	-	-	-	564.500	2	1.129

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8106 / Command Support Equipment								Aggregated Items Title: Command Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Data Configuration (12)(t)																				
15.3) Hardware - Middleware panels for Data Normalization (13)(t)	A		160.000	1	0.160	218.000	1	0.218	165.000	2	0.330	161.000	2	0.322	-	-	-	161.000	2	0.322
15.4) Aggragate & Configure Bldg & Utility data to Cyber Secured Network (14)(t)	A		2,446.000	1	2.446	4,308.500	1	4.309	4,082.000	2	8.164	3,006.500	2	6.013	-	-	-	3,006.500	2	6.013
15.5) Install Advanced Analytics for Meter Consumption Data (15)(t)	A		390.000	1	0.390	157.000	1	0.157	149.000	2	0.298	110.000	2	0.220	-	-	-	110.000	2	0.220
Subtotal: 15) CNIC			-	-	4.861	-	-	7.200	-	-	13.760	-	-	10.215	-	-	-	-	-	10.215
16) United States Fleet Forces Command																				
16.4) C4I/IT Equipment Naval Computer and Telecomm Atlantic (16)(t)	A		-	-	-	-	-	-	7,650.000	1	7.650	2,323.000	1	2.323	-	-	-	2,323.000	1	2.323
16.5) New Joint Regional Security Stack (JRSS) (17)(t)	A		-	-	-	2,971.000	1	2.971	-	-	-	-	-	-	-	-	-	-	-	-
16.6) C4I Equipment Naval Computer and Telecomm Station Det Rota Spain (18)(t)	A		-	-	-	-	-	-	-	-	-	1,705.000	1	1.705	-	-	-	1,705.000	1	1.705
16.7) BCO Infrastructure Replacement (Cable & Equipment) (19)(t)	A		439.500	8	3.516	284.000	4	1.136	412.250	4	1.649	420.000	4	1.680	-	-	-	420.000	4	1.680
16.8) Electrical Power Systems (20)(t)	A		467.667	3	1.403	1,374.000	1	1.374	1,411.000	1	1.411	1,280.000	1	1.280	-	-	-	1,280.000	1	1.280
16.9) INFOCON 3 - Security Compliance (21)(t)	A		671.667	3	2.015	1,042.000	1	1.042	702.750	4	2.811	312.667	3	0.938	-	-	-	312.667	3	0.938
16.10) Defense Red Switch Network Replacement (22)(t)	A		1,227.800	5	6.139	1,415.000	1	1.415	1,333.000	1	1.333	1,084.000	1	1.084	-	-	-	1,084.000	1	1.084
16.11) Navy Space / Aggressor Support (23)(t)	A		-	-	-	-	-	-	-	-	-	1,166.600	3	3.500	-	-	-	1,166.600	3	3.500

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2									P-1 Line Item Number / Title: 8106 / Command Support Equipment							Aggregated Items Title: Command Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	
Subtotal: 16) United States Fleet Forces Command			-	-	13.073	-	-	7.938	-	-	14.854	-	-	12.510	-	-	-	-	-	12.510	
17) Deployable Deployable Mission Support Systems (DMSS) Kits																					
17.1) Deployable Mission Support Systems (DMSS)(†)	A		-	-	-	-	-	-	1,014.286	14	14.200	995.692	13	12.944	-	-	-	995.692	13	12.944	
Subtotal: 17) Deployable Deployable Mission Support Systems (DMSS) Kits			-	-	0.000	-	-	-	-	-	14.200	-	-	12.944	-	-	-	-	-	12.944	
18) Briefing Displaying System (BDS) Upgrade - NAVCENT																					
18.1) Briefing Display System Upgrade (24)(†)	A		-	-	-	8,662.000	1	8.662	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 18) Briefing Displaying System (BDS) Upgrade - NAVCENT			-	-	0.000	-	-	8.662	-	-	-	-	-	-	-	-	-	-	-	-	
19) Undersea Warfare Decision Support System - CNE																					
19.1) Hardware and Software(†)	A		-	-	-	1,500.000	1	1.500	-	-	-	-	-	-	-	-	-	-	-	-	
19.2) Production Engineering Support(†)	A		-	-	-	400.000	1	0.400	-	-	-	-	-	-	-	-	-	-	-	-	
19.3) Maritime Operations Center (MOC) Server Room(†)	A		-	-	-	-	-	-	13,530.000	1	13.530	-	-	-	-	-	-	-	-	-	
Subtotal: 19) Undersea Warfare Decision Support System - CNE			-	-	0.000	-	-	1.900	-	-	13.530	-	-	-	-	-	-	-	-	-	
20) Navy Enterprise Tactical Command and Control (NETC2)																					
20.1) Briefing Display System (BDS) Delta(†)	A		-	-	-	-	-	-	3,120.000	1	3.120	-	-	-	-	-	-	-	-	-	
20.2) Navy Enterprise Tactical Command and Control (NETC2)(†)	A		-	-	-	-	-	-	2,500.000	2	5.000	-	-	-	-	-	-	-	-	-	
Subtotal: 20) Navy Enterprise Tactical Command and Control (NETC2)			-	-	0.000	-	-	-	-	-	8.120	-	-	-	-	-	-	-	-	-	
21) U.S. Pacific Fleet																					
21.1) Canopy Shelters(†)	A		2,773.667	3	8.321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21.2) Tension Fabric Shelters(†)	A		-	-	-	2,150.000	2	4.300	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 21) U.S. Pacific Fleet			-	-	8.321	-	-	4.300	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8106 / Command Support Equipment							Aggregated Items Title: Command Support Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Total			-	-	120.725	-	-	44.666	-	-	88.376	-	-	66.681	-	-	-	-	-	66.681

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

(†) indicates the presence of a P-5a

Footnotes:

- (1) Decrease in funding results from under execution prior to FY 2018 being pushed for execution in FY 2018 and then returning to a more level baseline refresh and purchase rate in FY2019 and out.
- (2) Increase will be used for the STARS to SABRS (S2S) transition hardware and software (HW/SW) required for supporting DON SABRS/SMARTS. This funding begins to address the many HW/SW requirements to transition the 11 BSOs migrating over to SABRS.
- (3) The funding profile for peripheral items will vary each year based on what IT and supporting infrastructure items require refresh.
- (4) MPTE Core Transformation Procurement of PeopleSoft 9.2 licenses in support of NP2 consolidation
- (5) FY19 increase is required for procurement of very large enterprise-class servers and large enterprise Storage Area Networks that are prescribed to be replaced on a five year schedule, as well as commodity servers and low-end storage that should be replaced on a three year cycle. The Navy ERP system has gained more than 30% utilization across multiple databases resulting in substantial growth in data storage and retention since inception. Data storage has continued annual growth resulting in more than 60TB of data driving the requirement for the increased OPN funding. Additionally, several infrastructure components need to be refreshed because they are nearing end of life and are subject to higher failure rates causing reliability concerns in infrastructure performance. Procurement (both hardware and software) is necessary for disaster recovery, prevention of failure rates associated with aging storage arrays, and to maintain compliance, supportability, and cyber-posture of our infrastructure.
- (6) FY19 NP2 procurement spans the following software licenses: Query Surge - Analytical Automation Testing, Golden Benthic, Quest Toad, Oracle Database Vault, Advanced compression, Label Security, Oracle Identity and Access Management Suite (Identity Provisioning, CAC / SSO), Oracle Privileged Account Manager, Oracle Data Masking, Windows Server licenses, Red Hat Enterprise Linux licenses, F5 security modules. These licenses are needed to improve system security, improve auditability, reduce the amount of PeopleCode required for development and sustainment of additional functionality, support the expanded usage from the system consolidations, reduce risks for system hosting, and improve overall performance of the system. Additional software licenses are required to accommodate the increase in CPUs from SPARC on premise to RHEL on Amazon Web Services (AWS). Oracle ULA Catalog items such as PeopleSoft Performance Mgr, OEM Plug Ins, GoldenGate, Data Integrator, Enterprise Database will accelerate our schedule. The FY19 increase in procurement will support infrastructure needs that incur a cost for moving to AWS, such as: Database Management tools (Toad); CAC enforcement, remote access, and security audit compliance (f5 Best Bundle Virtual Edition); external directory services for audit compliance (RHEL Directory Services); virtual desktop infrastructure (Microsoft Terminal Services CALs), office automation tools for use on the session hosts (MS Office), configuration and release mgmt tools (Phire, Serena, Ansible, cfengine); log correlation and audit compliance (SPLUNK); incremental and differential backup software (Veritas NetBackup); network file system (NFS) software (EMC). Additional Oracle licensing to bring the current Field Test software to a production level: User Productivity Kit (UPK), Financials, GRC, Integration Hub, etc.
- (7) The Maritime Operations Center (MOC) delivers global maritime capabilities at the Operational level of War throughout the full range of military operations. The goal end state is to achieve globally-networked operational level Numbered Fleet and Navy Component Commander, Joint Force Maritime Component Commander and Staff and Joint Task Force capable commands, based on Joint Capability Areas and Joint Mission-Essential Tasks through focused acquisition of standard and common suites of systems from the existing base of Navy, Army, Air Force and joint Programs of Record (POR) and non-PORs.
- (8) Quantity listed for Maritime Operations Command (MOC) Ashore represents shore sites. In any given year, MOC procures different equipment sets for the current build, as well as upgrades for prior builds/spirals, causing the unit cost per site to vary between fiscal years.
- (9) Quantity listed for MOC Afloat represents the only two ships that the MOC is on: the USS Mt. Whitney and the USS Blue Ridge. In any given year, MOC procures different equipment sets for the current build, as well as upgrades for prior builds/spirals, causing the unit cost per site to vary between fiscal years.
- (10) Quantities are based on regions. Regions are prioritized as follows: (1) Fleet concentration areas and mission assurance (cyber security) - MIDLANT (FY16 1st article test), Hawaii, South West, Marianas, South East (2) OCONUS - EURAFSWA, Far East (3) Upgrade (backfit) existing Smart Grids - NDW, Northwest
- (11) SG Software Procure & Install: Analytics and control software licenses, installation, testing, and functional configuration.
- (12) Common Operating Picture & Data Configuration: Develop and test Navy configuration, COP for Building/Utility Control Systems, and configuration of AMI data for included buildings
- (13) Hardware - Middleware panels for Data Normalization: Hardware procurement for panels supporting data normalization and cybersecurity
- (14) Aggregate & Configure Bldg & Utility Data to Cyber Secured Network: Securing and connection of Building/Utility Control Systems to monitoring, control, and analytics. Cyber secure the Smart Grid hardware/software product within the Navy's cyber secure hosting environment IAW Risk Management Framework (RMF) policy, and integrate smart meters, building & utility control system data, into a regionally managed consolidated data set. This 1st time digital capability provides Smart Grid operators transparency of equipment status across a region to centrally report, manage and control energy, that results in cost savings, utility resilience, and cyber mitigation.
- (15) Install Advanced Analytics for Meter Consumption Data: Import and configure advanced meter data for included buildings for advanced analytics
- (16) FY19 funding to support the planning, design, relocation, procurement and installation of mission related command, control, communications, computers and intelligence/Information Technology (C4I/IT) equipment to new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility. Increase will strengthen the Navy's ability to regionally manage networks and telecommunications, effectively respond to Navy Component and

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8106 / Command Support Equipment	Aggregated Items Title: Command Support Equipment
Fleet Commanders, contribute to transparent shared situational awareness (SA), track and characterize cyberspace threats and their relative impact on network operations, monitor and defend the security posture of the networks through distributed defensive cyberspace operations and enable Commander, Tenth Fleet (COMTENTHFLT) to standardize Command and Control (C2) of Navy networks. Specifically funds will buy: *Navy Time and Sync (FY19 and FY20) *Visualization Collaboration system (FY19 and FY20) NCTAMSLANT is one of two Major Communications Stations (MCS) thus C4I requirements, efforts, and cost are higher than subordinate Commands. ⁽¹⁷⁾ JRSS Funds to support uninterruptible power supply (UPS) systems and heating, ventilation and air conditioning (HVAC)at NCTS Guam Bldg 112 and NCTAMS PAC 409. ⁽¹⁸⁾ FY19 funding to support the planning, design, relocation, procurement and installation of mission related Command, Control, Communications, Computers, and Intelligence (C4I) and Information Technology equipment to the new Naval Computer and Telecommunications Station LANT, Det Rota Spain. Naval Station Rota is responsible for providing secure and reliable classified and unclassified voice, messaging, video and data telecommunication to more than 10,000 users including Forward Deployed Naval Forces. Communication outage risks are attributed to degraded facility conditions and flooding. Without investment, the Navy risks communication outages. Funds will specifically support: Access Control System (ACS) (FY19 only) DISA Transport (FY19 and FY20) Navy Timing and Sync (NTSS)(FY19 only)Electronic Security Sys (ESS) (FY19 and FY20) C4I Distribution Cabling (FY19 and FY20) Joint Worldwide Intelligence Communications System (JWICS) (FY19-22) Visual/Collaboration Sys (VCS) (FY19 and FY20) Naval Computer and Telecommunications Station (NCTS) Rota is smaller than NCTAMSLANT thus C4I requirements, efforts, and cost are less than Headquarters. ⁽¹⁹⁾ Unit cost between FY18 and FY19 decrease is due to a facility being upgraded to a General Service (GENSER) location. Unit cost fluctuations are a result of the varying system configuration requirements of particular sites, architecture, and varying number of locations or sites per region. ⁽²⁰⁾ The variance in unit cost between FY18 and FY19 budget submit is due to offsets related to emergent C4I/IT requirements creating an acceptance of greater risk for the emergency power program. At PB18 FY18, the program planned to procure and install two uninterruptible power supply (UPS) systems supporting high frequency global communications systems (HFGCS) in Hawaii and Guam. At FY19 the program plans to procure and install two UPS systems supporting high HFGCS in California and Diego Garcia. The higher FY19 cost is due in part to inflation and in part to elevated costs of platform support in Diego Garcia that is only partially offset from reduced costs of platform support in California. ⁽²¹⁾ Variance in unit costs and quantity between PB18 and PB19 budget submits for FY18-FY19 are due to planned "spiral implementation" of Cyber upgrades, in support of the Navy Cyber Defense Operations Command - Cyber Network Defense Mission Support System (CDMSS). In FY18, funds support Hardware/software for enhancing Defensive Cyberspace Operations (DCO) enterprise capabilities and increasing analytical capacity, Continuous Monitoring and Risk Scoring implementation as part of the cyber defense mission support system, HBSS mission system changes to provide Attack Sensing and Warning to mitigate host level malicious activity. In FY19, hardware and Software procurements are still required, at lower levels than in FY18. ⁽²²⁾ The variance in unit costs and quantity between FY18 and the FY19 budget submits is due to the quantity remaining unchanged while the level of effort decreases. The facility being upgraded is a GENSER location. At PB18 FY18, the facility does not require the additional security that a SCIF would. However, the facility will be required to be upgraded in the future as mandated by Defense Information Systems Agency (DISA). ⁽²³⁾ Threat Satellite Communications Systems Procurement (NAVIFOR): The FY19 OPN funding will procure three training systems to be used by the Navy Space Adversary Team (N-SAT) to provide academics and opposition forces (OPFOR) space threat via live replication during Fleet exercises. This training will support Space Aggressor "teach" and live jamming events for CSG-4/CSG-15 integrated events. The USFF/CPF Fleet Training Continuum instruction directs the Navy to adopt an integrated training capability to train Navy forces to high-end threats in a contested environment. Requirement approved as part of Fleet Training Wholeness (2025) Live Virtual Constructive (LVC). ⁽²⁴⁾ The BDS is a battle space awareness platform that supports overseas operations and contingencies through a common operating picture for all Naval Forces (CONUS and OCONUS) and is consistent with the purpose and use of OCO funds.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) NCIS												
1.1) NCIS Data Modernization & Analytical Tools ^{(1)(†)}		2017 ⁽²⁵⁾	Iron Brick / McLean, VA	C / TBD	NAVSUP	Apr 2017	May 2017	1	1,592.000	N	Jun 2017	Apr 2017
1.1) NCIS Data Modernization & Analytical Tools ^{(1)(†)}		2018 ⁽²⁶⁾	Carahsoft Technology Corporation / Reston, VA	C / TBD	NAVSUP	Apr 2018	May 2018	1	3,652.000	N	Jun 2018	Feb 2018
1.1) NCIS Data Modernization & Analytical Tools ⁽¹⁾		2019 ⁽²⁷⁾	Carahsoft Technology Corporation / Reston, VA	C / TBD	NAVSUP	Apr 2019	May 2019	1	2,439.000	N	Jun 2019	Jan 2019
2) Tech Refresh												
2.1) OCHR - Human Resource IT system ^(†)		2017	M2 Technology, Inc / UNKNOWN	C / TBD	FISC Philadelphia	Jun 2017	Jun 2017	1	520.000	N	Sep 2017	Mar 2017
2.1) OCHR - Human Resource IT system ^(†)		2018	M2 Technology, Inc / UNKNOWN	C / TBD	FISC Philadelphia	Jun 2018	Jun 2018	1	442.000	N	Jun 2018	Mar 2018
2.1) OCHR - Human Resource IT system ^(†)		2019	M2 Technology, Inc / UNKNOWN	C / TBD	FISC Philadelphia	Mar 2019	Mar 2019	1	446.000	N	Sep 2019	Mar 2019
2.2) FIP ^{(2)(†)}		2017	NAVSUP / Mechanicsburg, PA	C / TBD	NAVSUP	Oct 2016	Oct 2016	1	1,927.000	N	Oct 2017	Oct 2016
2.2) FIP ^{(2)(†)}		2018	NAVSUP / Mechanicsburg, PA	C / TBD	NAVSUP	Oct 2017	Oct 2017	1	2,690.000	N	Oct 2018	Oct 2017
2.2) FIP ^{(2)(†)}		2019	NAVSUP / Mechanicsburg, PA	C / TBD	NAVSUP	Oct 2018	Oct 2018	1	3,055.000	N	Oct 2019	Oct 2018
3) Insider Threat												
3.1) Operational Spares		2018	TBD / TBD	C / TBD	** NO PCO **	Jun 2018	Nov 2018	1	200.000	N	Jan 2018	
3.1) Operational Spares		2019	TBD / TBD	C / TBD	** NO PCO **	Jun 2019	Nov 2019	1	346.000	N	Jan 2019	
3.2) Configuration / Install		2018	TBD / TBD	C / TBD	** NO PCO **	Sep 2018	Feb 2019	1	175.000	N	Mar 2018	
3.2) Configuration / Install		2019	TBD / TBD	C / TBD	** NO PCO **	Sep 2019	Feb 2020	1	302.000	N	Mar 2019	
3.3) Hardware/Software License Procurement		2018	TBD / TBD	C / TBD	** NO PCO **	Jun 2018	Nov 2018	1	535.000	N	Jan 2018	
3.3) Hardware/Software License Procurement		2019	TBD / TBD	C / TBD	** NO PCO **	Jun 2019	Nov 2019	1	903.000	N	Jan 2019	
3.4) ONI Refresh Hardware/ Software		2018	TBD / TBD	C / TBD	** NO PCO **	Mar 2018	Sep 2018	1	90.000	N	Oct 2017	
3.4) ONI Refresh Hardware/ Software		2019	TBD / TBD	C / TBD	** NO PCO **	Mar 2019	Sep 2019	1	156.000	N	Oct 2018	
4) Electronic Military Personnel Record System (EMPRS)												
4.1) Servers		2017	Soft Choice / Unknown	C / TBD	** NO PCO **	Oct 2016	Oct 2016	7	157.143	N	Jan 2018	
4.2) Content Management HW SW		2018	IBM, NSA / Mid South, TN	C / CPFF	FISC Philadelphia	Sep 2018	Oct 2018	39	20.190	N	Jul 2018	
4.2) Content Management HW SW		2019	IBM, NSA / Mid South, TN	C / CPFF	FISC Philadelphia	Sep 2019	Oct 2019	85	18.741	N	Jul 2019	
4.3) Records Mgmt SW		2013	CDW Government / Unknown	C / FFP	FISC Philadelphia	Sep 2013	Sep 2013	1	992.000	Y		Jun 2013

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.3) Records Mgmt SW		2015	CDW Government / Unknown	C / FP	FISC Philadelphia	Oct 2015	Oct 2015	1	664.000	N	Oct 2014	Jun 2015
4.3) Records Mgmt SW		2018	CDW Government / Unknown	C / FP	FISC Philadelphia	Oct 2017	Nov 2017	1	450.000	N	Jun 2018	Jun 2017
4.5) Selection Board Management HW SW		2017	TrueTandem, LLC / Unknown	C / FP	Unknown	Jun 2017	Jun 2017	22	6.000	N	Oct 2016	Jun 2017
4.5) Selection Board Management HW SW		2018	TrueTandem, LLC / Unknown	C / FFP	FISC Philadelphia	Sep 2018	Oct 2018	253	1.806	N	Jan 2019	Feb 2018
4.6) Client Management HW SW		2017	Pifinity, Inc. / Arlington, VA	C / FFP	FISC Philadelphia	Aug 2017	Sep 2017	267	0.760	N	Oct 2017	Jun 2017
4.6) Client Management HW SW		2018	Pifinity, Inc. / Arlington, VA	C / FFP	FISC Philadelphia	Dec 2017	Jan 2018	280	1.000	N	Jun 2018	Jul 2017
4.6) Client Management HW SW		2019	Pifinity, Inc. / Arlington, VA	C / FFP	FISC Philadelphia	Dec 2018	Jan 2019	2	1.000	N	Jun 2019	Jul 2018
4.10) Workstations (Sel Board)		2019	Dell / NSA Mid South, TN	C / FFP	FISC Philadelphia	Oct 2018	Nov 2018	8	4.875	N	Jun 2019	May 2018
4.12) Peripherals ⁽³⁾		2017	Insight Public Sector / Tempe, AZ	C / FFP	Unknown	Jun 2017	Jun 2017	60	3.000	N	Oct 2016	Jun 2017
4.12) Peripherals ⁽³⁾		2019	HP, Samsung, Meridia / NSA Mid South, TN	C / FFP	FISC Philadelphia	Oct 2018	Nov 2018	1	49.000	N	Jun 2019	Jun 2018
4.13) Sel Board Display		2018	Unknown / Unknown	C / FFP	FISC Philadelphia	Jun 2018	Jul 2018	2	152.000	N	Jun 2018	Jan 2018
7) MPTE Core Transformation												
7.1) MPTE Core Transformation PeopleSoft Licenses ⁽⁴⁾		2017 ⁽²⁸⁾	GSA / GSA	SS / FP	SPAWAR	Sep 2017	Dec 2017	100	29.000	N	Jun 2018	Jun 2017
11) Maritime Operations Center (MOC) Procurement												
11.1) Baseline Equipment - Ashore ⁽⁸⁾		2017	SSC Atlantic/Pacific/MDA / Various	WR	SSC PAC/LANT/MDA	Mar 2017	Jun 2017	7	188.286	Y		
11.1) Baseline Equipment - Ashore ⁽⁸⁾		2018	SSC Atlantic/Pacific/MDA / Various	WR	SSC PAC/LANT/MDA	Mar 2018	Jun 2018	7	230.143	Y		
11.1) Baseline Equipment - Ashore ⁽⁸⁾		2019	SSC Atlantic/Pacific/MDA / Various	WR	SSC PAC/LANT/MDA	Mar 2019	Mar 2019	7	236.857	N		
11.2) Baseline Equipment - Afloat ⁽⁹⁾		2017	SSC Atlantic/Pacific/MDA / Various	WR	SSC PAC/LANT/MDA	Mar 2017	Jun 2017	2	211.000	Y		
11.2) Baseline Equipment - Afloat ⁽⁹⁾		2018	SSC Atlantic/Pacific/MDA / Various	C / FFP	SSC PAC/LANT/MDA	Mar 2018	Jun 2018	2	227.150	Y		
11.2) Baseline Equipment - Afloat ⁽⁹⁾		2019	SSC Atlantic/Pacific/MDA / Various	C / CPFF	SSC PAC/LANT/MDA	Mar 2019	Jun 2019	2	233.500	Y		
15) CNIC												
15.1) SG Software Procure & Install ⁽¹¹⁾		2017 ⁽²⁹⁾	NAVFACLANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2016	Oct 2016	1	1,707.000	N		
15.1) SG Software Procure & Install ⁽¹¹⁾		2018 ⁽³⁰⁾	NAVFACLANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2017	Oct 2017	2	1,718.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
15.1) SG Software Procure & Install (11)		2019 ⁽³¹⁾	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2018	Oct 2018	2	1,265.500	N		
15.2) Common Operating Picture & Data Configuration (12)		2017	NAVFAC LANT ⁽³²⁾ / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2016	Oct 2016	1	808.500	N		
15.2) Common Operating Picture & Data Configuration (12)		2018	NAVFAC LANT ⁽³²⁾ / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2017	Oct 2017	2	766.000	N		
15.2) Common Operating Picture & Data Configuration (12)		2019	NAVFAC LANT ⁽³²⁾ / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2018	Oct 2018	2	564.500	N		
15.3) Hardware - Middleware panels for Data Normalization (13)		2017	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2016	Oct 2016	1	218.000	N		
15.3) Hardware - Middleware panels for Data Normalization (13)		2018	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2017	Oct 2017	2	165.000	N		
15.3) Hardware - Middleware panels for Data Normalization (13)		2019	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2018	Oct 2018	2	161.000	N		
15.4) Aggragate & Configure Bldg & Utility data to Cyber Secured Network (14)(†)		2017	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Mar 2017	Aug 2017	1	4,308.500	N		
15.4) Aggragate & Configure Bldg & Utility data to Cyber Secured Network (14)(†)		2018	TBD / TBD	TBD	** NO PCO **	Mar 2018	Aug 2018	2	4,082.000	N		
15.4) Aggragate & Configure Bldg & Utility data to Cyber Secured Network (14)(†)		2019	TBD / TBD	TBD	** NO PCO **	Mar 2019	Aug 2019	2	3,006.500	N		
15.5) Install Advanced Analytics for Meter Consumptioin Data (15)		2017	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2016	Oct 2016	1	157.000	N		
15.5) Install Advanced Analytics for Meter Consumptioin Data (15)		2018	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2017	Oct 2017	2	149.000	N		
15.5) Install Advanced Analytics for Meter Consumptioin Data (15)		2019	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2018	Oct 2018	2	110.000	N		
16) United States Fleet Forces Command												
16.4) C4I/IT Equipment Naval Computer and Telecomm Atlantic (16)		2018	SPAWAR / Atlantic	C / TBD	** NO PCO **	Oct 2017	Oct 2017	1	7,650.000	N		
16.4) C4I/IT Equipment Naval Computer and Telecomm Atlantic (16)		2019	SPAWAR / Atlantic	C / FFP	** NO PCO **	Nov 2018	Nov 2018	1	2,323.000	N	Dec 2018	

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Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
16.5) New Joint Regional Security Stack (JRSS) ⁽¹⁷⁾		2017	New MFG - Name / NAVAL FACILITIES ENGINEERING COMAND	C / TBD	GUAM/WAHIAWA	Jan 2017	Jan 2017	1	2,971.000	N	May 2017	
16.6) C4I Equipment Naval Computer and Telecomm Station Det Rota Spain ⁽¹⁸⁾		2019	SPAWAR / Atlantic	C / FFP	** NO PCO **	Jan 2019	Feb 2019	1	1,705.000	N	Feb 2019	
16.7) BCO Infrastructure Replacement (Cable & Equipment) ⁽¹⁹⁾		2017	SPAWAR / UNKNOWN	C / FP	SPAWAR	Apr 2017	Apr 2017	4	284.000	Y		
16.7) BCO Infrastructure Replacement (Cable & Equipment) ⁽¹⁹⁾		2018	SPAWAR / UNKNOWN	C / FP	SPAWAR	Oct 2017	Oct 2017	4	412.250	Y		
16.8) Electrical Power Systems ⁽²⁰⁾		2017	NAVFAC EXWC / PORT HUENEME, CA	C / FPAF	** NO PCO **	Apr 2017	Apr 2017	1	1,374.000	Y		
16.8) Electrical Power Systems ⁽²⁰⁾		2018	NAVFAC EXWC / PORT HUENEME, CA	C / FPAF	** NO PCO **	Apr 2018	Apr 2018	1	1,411.000	Y		
16.9) INFOCON 3 - Security Compliance ⁽²¹⁾		2017	SPAWAR / Charleston	C / CPAF	SPAWAR	Apr 2017	Apr 2017	1	1,042.000	Y		
16.9) INFOCON 3 - Security Compliance ⁽²¹⁾		2018	SPAWAR / Charleston	C / CPAF	SPAWAR	Apr 2018	Apr 2018	4	702.750	Y		
16.10) Defense Red Switch Network Replacement ⁽²²⁾		2017	Raytheon / Hill AFB, UT	C / FP	** NO PCO **	Apr 2017	Apr 2017	1	1,415.000	Y		
16.10) Defense Red Switch Network Replacement ⁽²²⁾		2018	Raytheon / Hill AFB, UT	C / FP	** NO PCO **	Apr 2018	Apr 2018	1	1,333.000	Y		
16.11) Navy Space / Aggressor Support ⁽²³⁾		2019	TBD / TBD	C / TBD	** NO PCO **	Oct 2018	Oct 2018	3	1,166.600	N		
17) Deployable Deployable Mission Support Systems (DMSS) Kits												
17.1) Deployable Mission Support Systems (DMSS) ^(†)		2018	SPAWAR ⁽³³⁾ / Charleston, SC	C / FFP	SPAWAR SSC Pacific	Mar 2018	May 2018	14	1,014.286	Y		Jan 2018
17.1) Deployable Mission Support Systems (DMSS) ^(†)		2019	SPAWAR ⁽³³⁾ / Charleston, SC	C / FFP	SPAWAR SSC Pacific	Mar 2019	May 2019	13	995.692	N	Jul 2018	Jan 2019
18) Briefing Displaying System (BDS) Upgrade - NAVCENT												
18.1) Briefing Display System Upgrade ^{(24)(†)}	✓	2017	SPAWAR / North Charleston, SC	PO	SPAWAR	Nov 2016	Sep 2017	1	8,662.000	Y		
19) Undersea Warfare Decision Support System - CNE												
19.1) Hardware and Software	✓	2017	TBD / TBD	C / TBD	** NO PCO **	Feb 2017	Feb 2017	1	1,500.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
19.2) Production Engineering Support	✓	2017	TBD / TBD	C / TBD	** NO PCO **	Oct 2016	Oct 2016	1	400.000	N		
19.3) Maritime Operations Center (MOC) Server Room	✓	2018	Raytheon / Hill AFB, UT	C / FFP	** NO PCO **	Jan 2018	Jan 2018	1	13,530.000	N		
20) Navy Enterprise Tactical Command and Control (NETC2)												
20.1) Briefing Display System (BDS) Delta	✓	2018	Raytheon / Hill AFB, UT	C / FFP	** NO PCO **	Jan 2018	Jan 2018	1	3,120.000	N		
20.2) Navy Enterprise Tactical Command and Control (NETC2)	✓	2018	Raytheon / Hill AFB, UT	C / FFP	** NO PCO **	Jan 2018	Jan 2018	2	2,500.000	N		
21) U.S. Pacific Fleet												
21.1) Canopy Shelters		2016	Dimensions Construction / San Diego, CA	C / FP	NAVFAC SW COASTAL IPT	Jun 2016	Jun 2017	1	3,121.000	Y		May 2016
21.2) Tension Fabric Shelters		2017	TBD / TBD	C / TBD	DLA Troop Support, Philadelphia, PA	Dec 2017	Mar 2018	2	2,150.000	Y		Nov 2017

(†) indicates the presence of a P-21

Footnotes:

(25) NetAPP equipment refresh

(26) CISCO IP routers and switches

(27) VTC infrastructure

(28) Task Order was awarded procure PeopleSoft liscenses

(29) Both DTIC and NAVAIR were used to procure and Install

(30) Both DTIC and NAVAIR will be used

(31) Both DTIC and NAVAIR will be used

(32) NAVFAC, DTIC, NAVAIR, and KBR Wyle share responsibility in the acceptance and reimbursement of funds in addition to performing the work

(33) Build locations at Jefferson Barracks Missouri or Navy Information Operation Command (NIOC) Pensacola, FL

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Exhibit P-21, Production Schedule: PB 2019 Navy																								Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2										P-1 Line Item Number / Title: 8106 / Command Support Equipment										Aggregated Items: Command Support Equipment															
Items (Units in Each)							Fiscal Year 2013										Fiscal Year 2014													BALANCE					
OCO#	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013																Calendar Year 2014												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP				
1) NCIS																																			
1.1) NCIS Data Modernization & Analytical Tools ⁽¹⁾																																			
Prior Years Deliveries: 5																																			
	3	2017	NAVY	1	0	1																												1	
	4	2018	NAVY	1	0	1																												1	
2) Tech Refresh																																			
2.1) OCHR - Human Resource IT system																																			
Prior Years Deliveries: 6																																			
	5	2017	NAVY	1	0	1																												1	
	5	2018	NAVY	1	0	1																												1	
	5	2019	NAVY	1	0	1																												1	
2.2) FIP ⁽²⁾																																			
Prior Years Deliveries: 2																																			
	6	2017	NAVY	1	0	1																												1	
	6	2018	NAVY	1	0	1																												1	
	6	2019	NAVY	1	0	1																												1	
15) CNIC																																			
15.4) Aggragate & Configure Bldg & Utility data to Cyber Secured Network ⁽¹⁴⁾																																			
Prior Years Deliveries: 1																																			
	7	2017	NAVY	1	0	1																												1	
	8	2018	NAVY	2	0	2																												2	
	8	2019	NAVY	2	0	2																												2	
17) Deployable Deployable Mission Support Systems (DMSS) Kits																																			
17.1) Deployable Mission Support Systems (DMSS)																																			
	9	2018	NAVY	14	0	14																												14	
	9	2019	NAVY	13	0	13																												13	
18) Briefing Displaying System (BDS) Upgrade - NAVCENT																																			
18.1) Briefing Display System Upgrade ⁽²⁴⁾																																			
✓	10	2017	NAVY	1	0	1																												1	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2												P-1 Line Item Number / Title: 8106 / Command Support Equipment											Aggregated Items: Command Support Equipment											
Items (Units in Each)							Fiscal Year 2015												Fiscal Year 2016															BALANCE
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016															
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S				
							C	O	E	A	E	A	A	U	E	C	O	V	E	A	E	B	A	P	A	U	U	A	S					
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	G	P	C			
1) NCIS																																		
1.1) NCIS Data Modernization & Analytical Tools ⁽¹⁾																																		
Prior Years Deliveries: 5																																		
	3	2017	NAVY	1	0	1																						1						
	4	2018	NAVY	1	0	1																						1						
2) Tech Refresh																																		
2.1) OCHR - Human Resource IT system																																		
Prior Years Deliveries: 6																																		
	5	2017	NAVY	1	0	1																						1						
	5	2018	NAVY	1	0	1																						1						
	5	2019	NAVY	1	0	1																						1						
2.2) FIP ⁽²⁾																																		
Prior Years Deliveries: 2																																		
	6	2017	NAVY	1	0	1																						1						
	6	2018	NAVY	1	0	1																						1						
	6	2019	NAVY	1	0	1																						1						
15) CNIC																																		
15.4) Aggragate & Configure Bldg & Utility data to Cyber Secured Network ⁽¹⁴⁾																																		
Prior Years Deliveries: 1																																		
	7	2017	NAVY	1	0	1																						1						
	8	2018	NAVY	2	0	2																						2						
	8	2019	NAVY	2	0	2																						2						
17) Deployable Deployable Mission Support Systems (DMSS) Kits																																		
17.1) Deployable Mission Support Systems (DMSS)																																		
	9	2018	NAVY	14	0	14																						14						
	9	2019	NAVY	13	0	13																						13						
18) Briefing Displaying System (BDS) Upgrade - NAVCENT																																		
18.1) Briefing Display System Upgrade ⁽²⁴⁾																																		
✓	10	2017	NAVY	1	0	1																						1						
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S				
							C	O	E	A	E	A	A	U	E	C	O	V	E	A	E	B	A	P	A	U	U	A	S					
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	G	P				

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Exhibit P-21, Production Schedule: PB 2019 Navy																												Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2														P-1 Line Item Number / Title: 8106 / Command Support Equipment														Aggregated Items: Command Support Equipment							
Items (Units in Each)							Fiscal Year 2017														Fiscal Year 2018														BALANCE
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
1) NCIS																																			
1.1) NCIS Data Modernization & Analytical Tools ⁽¹⁾																																			
Prior Years Deliveries: 5																																			
3		2017	NAVY	1	0	1																							0						
4		2018	NAVY	1	0	1																							0						
2) Tech Refresh																																			
2.1) OCHR - Human Resource IT system																																			
Prior Years Deliveries: 6																																			
5		2017	NAVY	1	0	1																							0						
5		2018	NAVY	1	0	1																							0						
5		2019	NAVY	1	0	1																							1						
2.2) FIP ⁽²⁾																																			
Prior Years Deliveries: 2																																			
6		2017	NAVY	1	0	1																							0						
6		2018	NAVY	1	0	1																							0						
6		2019	NAVY	1	0	1																							1						
15) CNIC																																			
15.4) Aggregate & Configure Bldg & Utility data to Cyber Secured Network ⁽¹⁴⁾																																			
Prior Years Deliveries: 1																																			
7		2017	NAVY	1	0	1																							0						
8		2018	NAVY	2	0	2																							1						
8		2019	NAVY	2	0	2																							2						
17) Deployable Deployable Mission Support Systems (DMSS) Kits																																			
17.1) Deployable Mission Support Systems (DMSS)																																			
9		2018	NAVY	14	0	14																							0						
9		2019	NAVY	13	0	13																							13						
18) Briefing Displaying System (BDS) Upgrade - NAVCENT																																			
18.1) Briefing Display System Upgrade ⁽²⁴⁾																																			
✓	10	2017	NAVY	1	0	1																							0						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Navy																												Date: February 2018																	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2														P-1 Line Item Number / Title: 8106 / Command Support Equipment										Aggregated Items: Command Support Equipment																					
Items (Units in Each)							Fiscal Year 2019														Fiscal Year 2020														BALANCE										
O C O	M F R	#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019														Calendar Year 2020																							
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P														
1) NCIS																																													
1.1) NCIS Data Modernization & Analytical Tools ⁽¹⁾																																													
Prior Years Deliveries: 5																																													
	3	2017	NAVY		1	1	0																													0									
	4	2018	NAVY		1	1	0																													0									
2) Tech Refresh																																													
2.1) OCHR - Human Resource IT system																																													
Prior Years Deliveries: 6																																													
	5	2017	NAVY		1	1	0																													0									
	5	2018	NAVY		1	1	0																													0									
	5	2019	NAVY		1	0	1																													0									
2.2) FIP ⁽²⁾																																													
Prior Years Deliveries: 2																																													
	6	2017	NAVY		1	1	0																													0									
	6	2018	NAVY		1	1	0																													0									
	6	2019	NAVY		1	0	1	A1																													0								
15) CNIC																																													
15.4) Aggregate & Configure Bldg & Utility data to Cyber Secured Network ⁽¹⁴⁾																																													
Prior Years Deliveries: 1																																													
	7	2017	NAVY		1	1	0																													0									
	8	2018	NAVY		2	1	1	-	1																													0							
	8	2019	NAVY		2	0	2															A -	-	-	-	-	1	-	-	1															0
17) Deployable Deployable Mission Support Systems (DMSS) Kits																																													
17.1) Deployable Mission Support Systems (DMSS)																																													
	9	2018	NAVY		14	14	0																													0									
	9	2019	NAVY		13	0	13																													0									
18) Briefing Displaying System (BDS) Upgrade - NAVCENT																																													
18.1) Briefing Display System Upgrade ⁽²⁴⁾																																													
✓	10	2017	NAVY		1	1	0	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0													

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Exhibit P-21, Production Schedule: PB 2019 Navy			Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2		P-1 Line Item Number / Title: 8106 / Command Support Equipment			Aggregated Items: Command Support Equipment

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Iron Brick - McLean, VA				0	0	1	1	0	0	0	0
2	Carahsoft Technology Corporation - Reston, VA				0	2	1	3	0	0	0	0
3	M2 Technology, Inc - UNKNOWN				0	8	2	10	0	0	0	0
4	NAVSUP - Mechanicsburg, PA				3	0	0	0	0	0	0	0
5	NAVFAC LANT - Norfolk, VA				0	0	0	0	0	0	0	0
6	TBD - TBD				0	0	0	0	0	0	0	0
7	SPAWAR ⁽³³⁾ - Charleston, SC	13	15	20	4	3	2	5	4	3	2	5
8	SPAWAR - North Charleston, SC				0	0	6	6	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Footnotes:

⁽³³⁾ Build locations at Jefferson Barracks Missouri or Navy Information Operation Command (NIOC) Pensacola, FL

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8109 / Medical Support 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: 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>)	40.049	11.959	4.383	3.352	6.500	9.852	4.023	3.531	3.598	3.667	17.603	98.665
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	40.049	11.959	4.383	3.352	6.500	9.852	4.023	3.531	3.598	3.667	17.603	98.665
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	40.049	11.959	4.383	3.352	6.500	9.852	4.023	3.531	3.598	3.667	17.603	98.665
<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 provides funding for the Medical Support Equipment (MSE) and the Fleet Hospital/Expeditionary Medical Facility (EMF) Programs.

The Medical Support Equipment (MSE) program funds new medical capability and new technology on naval operating ships. Medical Support Equipment configuration management, spares, technical manuals and installations are also funded through this line item. Requirements are determined through Commander, U.S. Fleet Forces Command and Commander, U.S. Pacific Fleet, and procurement is managed by Naval Medical Logistics Command (NAVMEDLOGCOM). Funding is used to procure modifications or additions to the ships' allowance items that are identified within the Authorized Medical Allowance List (AMAL) and Authorized Dental Allowance List (ADAL). AMALs and ADALs are unique to specific classes or types of ship or Commands to fulfill its intended health care mission. AMAL and ADAL allowances are approved by the respective Fleet Type Commander (TYCOM) Force Surgeon with concurrence by the Commander, Fleet Forces Command Surgeon. The initiation of a change to the current depth (allowance amount) of material or addition of a new allowance for an item(s) within an AMAL or ADAL results from either a change in the scope of care a specific ship must provide in accordance with its Required Operational Capability (ROC) and Projected Operational Environment (POE) and/or a change in the standard of medical care the assigned personnel are expected to provide. Changes to AMAL and ADAL requirements are determined through Individual Allowance Change Requests, as a result of reviews chaired by TYCOM Fleet Surgeons.

The Fleet Hospital/Expeditionary Medical Facility (EMF) program funds critical medical equipment to support and provide theater hospitalization capabilities (commonly referred to as Role III Care) as defined in Joint Publication 4-02 Health Services Support and the EMF ROC and POE. This funding is used to procure investment equipment that supports the standard of care for Casualty Management as determined by the DoD Combat Trauma Surgery Committee.

This line item also includes funding for the Hospital Ships (USNS COMFORT (Fleet Forces Command) and USNS MERCY (PACFLT)) major systems replacement. The program is part of the standardization and life cycle management of the MERCY Class Hospital ships sustainability plan.

Funds in this line item will be used to procure medical equipment from the AMAL/ADAL, and for major systems replacement, including:

Direct Radiology System, and CAD CAM Milling Machine (Computer Aided Design and Computer Aided Manufacturing).

Computed Axial Tomography (CAT) Scan system; funding will cover one (1) unit per prepositioned Expeditionary Medical Facility.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8109 / Medical Support 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: N/A		
Digital X-Ray Shelters; funding will cover one (1) Digital X-Ray Shelter per prepositioned Expeditionary Medical Facility to provide higher resolution diagnostic images, which provide digital storage capability, and alleviates the need for chemical processors.		
[P40A / Expeditionary Medical Unit (EMU) Recapitalization]: Electrosurgical Unit, Monopolar/Bipolar]: Procure Electrosurgical Unit (ESU) (with Test equipment, Operators Training, and repair and maintenance training). ESU's is a full-featured electrosurgical system that provides electrosurgical cutting and coagulation, bipolar functionality, and vessel sealing during surgical procedures.		
[P40A / Computerized Axial Tomography (CAT) Scan Replacement]: Funding provided for the procurement and installation of a Computerized Axial Tomography (CAT) Scan for the USNS COMFORT. The CAT scan is an x-ray procedure that combines many x-ray images with the aid of a computer to generate cross-sectional views and, if needed, three-dimensional images of the internal organs and structures of the body. It is used to define normal and abnormal structures in the body and/or assist in procedures by helping to accurately guide the placement of instruments or treatments. This equipment is required in support of the hospital ship mission and to provide a similar standard of care on the hospital ships to what a patient would receive in other Navy Medical Treatment Facilities (fixed or expeditionary).		
[P40A / Rad Fluoro Replace w/Wireless Digital Imaging Option]: Procure and install Radiographic Fluoroscopy (R/F) Replacement System with wireless digital radiology imaging option for USNS COMFORT. The system provides digital storage capability of images and alleviates the need for chemical processors. R/F systems are used for diagnostic radiographic and fluoroscopic examinations. Most allow spot filming of an image to produce an x-ray film for later detailed study including those that use contrast media such as gastrointestinal or cardio studies.		
[P40A / Computerized Axial Tomography (CAT) Scan Replacement]: Computerized Axial Tomography(CAT) Scan Replacement (MLC): Funding provided for the procurement and installation of a Computerized Axial Tomography (CAT) Scan for the USNS MERCY. The CAT scan is an x-ray procedure that combines many x-ray images with the aid of a computer to generate cross-sectional views and, if needed, three-dimensional images of the internal organs and structures of the body.		
[P40A / Infusion Pump, Multi-therapy]: Infusion Pump, Multi-therapy Infusion: Funding provides Multi-therapy Infusion pumps for the USNS MERCY, and are used to deliver agents from syringes or collapsible bags and are small enough to be worn or carried by patients. They are used on patients that require repeated or continuous infusions.		
[P40A / Patient Isolation Wards]: Multi-patient isolation ward design, install, procurement aboard the USNS MERCY to support PACOM emerging infectious disease requirements for patient care.		
[P40A / Radiographic Fluoroscopy w/Wireless Digital Imaging Option]: Radiographic Fluoroscopy Replacement with Wireless Digital Imaging Option (MLC): Procure and install Radiographic Fluoroscopy Replacement System with wireless digital radiology imaging option for USNS MERCY. The system is used for diagnostic radiographic and fluoroscopic examinations, and provides digital storage capability of images and alleviates the need for chemical processors.		
[P40A / Detector/X-Ray Digital Radiography]: Procure and install Detector that is compatible with current Mobile Radiology units onboard the USNS MERCY. Wireless x-ray detectors replaced the radiographic cassettes. It is a digital pad that receives radiographic rays from the X-Ray unit that produces the image for radiological diagnostics.		
[P40A / O2N2 Plant]: Automation upgrade to modernize and make the existing O2N2 plant safer and simpler for the end user to operate while increasing overall reliability. The existing O2N2 producer is outfitted with a legacy control system that makes it difficult for the end user to timely produce liquid oxygen at required purity and volume. The automation will control plant parameters in a more precise manner allowing the plant to produce more high purity liquid oxygen per unit time. It will provide the end user with trending data of all plant parameters that will greatly assist with troubleshooting and diagnostics and will be in compliance with ISO 9001 standards. By allowing the plant to operate more efficiently, less time is needed to achieve purity reducing production run times which results in realized fuel and maintenance savings. This equipment is required in support of the hospital ship mission and to provide a similar standard of care on the hospital ships to what a patient would receive in other Navy Military Facilities (fixed or expeditionary).		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8109 / Medical Support 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: 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-40a	Medical Support Equipment	P-5a			- / 40.049	- / 11.959	- / 4.383	- / 3.352	- / 6.500	- / 9.852
P-40	Total Gross/Weapon System Cost				- / 40.049	- / 11.959	- / 4.383	- / 3.352	- / 6.500	- / 9.852
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown. 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 (\$0.129) 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.Funding required to support the healthcare readiness needs of Navy's operating forces. The Medical Support Equipment (MSE) program funds new medical capability and new technology on naval operating ships. Medical Support Equipment configuration management, spares, technical manuals and installations are also funded through this line item. PB19 specifically requests: 3 Direct Digital Radiology Systems and installation: The Direct Digital Radiology system is required to keep pace with the advanced nature of diagnostic imaging. It is a form of X-Ray imaging, in which digital X-ray sensors are used instead of traditional photographic film. This provides shipboard medical personnel the capability to digitally process, and store images thereby reducing film development time, maintenance, and storage costs. This also provides seamless integration of digital imaging with other systems used in Telemedicine, creating a more efficient process that bypasses chemical processing and provides the ability to digitally transfer and enhance images. Using an existing DLA-TS IDIQ Contract, NMLC will procure equipment from AGFA Health Care. The installation and related procurement plan for Direct Digital Radiology units reflects ship availability for installation periods (per data from the Navy Data Environment database). Equipment is procured in the year preceding installation. Three units are planned to be procured every year starting in FY17 and continuing through the FYDP. 1 Digital X-Ray Shelter: funding will procure one (1) Digital X-Ray Shelter per prepositioned Expeditionary Medical Facility to provide higher resolution diagnostic images, which provide digital storage capability, and alleviates the need for chemical processors. 1 Patient Isolation Wards: Multi-patient isolation ward design, install, procurement aboard the USNS MERCY to support PACOM emerging infectious disease requirements for patient care. OCO: Expeditionary Medical Unit (EMU) (\$5M) Request in support of Operation Inherent Resolve (OIR) in the amount of \$5M for recapitalization of a ten bed Expeditionary Medical Unit (EMU). This is an OCO reset requirement for a unit deployed in September 2016 that will undergo attrition while deployed and will not be recoverable into inventory. The purchase will allow the Department to maintain a capability of four EMU-10 units. EMU-10s provide care to patients in theater, including the following capabilities: two Operating Room Tables; four Intensive Care Unit (ICU) beds; six Acute Care Wing (ACW) beds; Base Tent Configuration; and completion of operational set up within 24 hours. Computerized Tomography (CAT) Scan (\$1.5M)										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8109 / Medical Support 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: N/A Request is for the procurement and installation of a Computerized Tomography (CAT) Scan for Camp Lemonier, Djibouti (CLDJ). The CAT scan is an x-ray procedure that combines many x-ray images with the aid of a computer to generate cross-sectional views and, if needed, three-dimensional images of the internal organs and structures of the body. It is used to define normal and abnormal structures in the body and/or assist in procedures by helping to accurately guide the placement of instruments or treatments. This equipment is required to support the Expeditionary Medical Facility (EMF) Djibouti and to ensure patients continue to receive the US standard of care.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8109 / Medical Support Equipment							Aggregated Items Title: Medical Support Equipment							
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
1) BUMED ⁽¹⁾																					
1.1) Direct Digital Radiology - Procurement ^{(2)(t)}		A		216,520.00	25	5.413	340,000.00	3	1.020	360,000.00	3	1.080	327,000.00	3	0.981	-	-	-	327,000.00	3	0.981
1.2) Direct Digital Radiology - Installation ^(t)		A		112,750.00	12	1.353	208,000.00	3	0.624	212,000.00	3	0.636	205,000.00	3	0.615	-	-	-	205,000.00	3	0.615
1.5) Computerized Axial Tomography (CAT) Scan Replacement ^{(3)(t)}		A		1,306K	2	2.613	-	-	-	1,347K	1	1.347	-	-	-	-	-	-	-	-	-
1.6) Digital X-Ray Shelters ^{(4)(t)}		A		-	-	-	760,000.00	1	0.760	-	-	-	790,000.00	1	0.790	-	-	-	790,000.00	1	0.790
1.7) Logistics Support, Supplies & Equipment Maintenance		A		-	-	1.769	-	-	0.044	-	-	0.117	-	-	0.091	-	-	-	-	-	0.091
Subtotal: 1) BUMED				-	-	11.148	-	-	2.448	-	-	3.180	-	-	2.477	-	-	-	-	-	2.477
2) Expeditionary Medical Facilities																					
2.1) Expeditionary Medical Unit (EMU) Recapitalization ^{(5)(t)}		A		-	-	-	-	-	-	-	-	-	-	-	0.000	5,000K	1	5.000	5,000K	1	5.000
2.2) EMF Tent Replacement ^{(6)(t)}		A		4,087K	1	4.087	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) EMF Tent Replacement and Upgrades ^{(7)(t)}		A		3,956K	2	7.913	-	-	7.831	-	-	-	-	-	-	-	-	-	-	-	-
2.4) Roll 2 Enhanced COTS & New Capabilities ^{(8)(t)}		A		13,000K	1	13.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5) Roll 2 Light Maneuver Operational Equipment Set ^{(9)(t)}		A		1,500K	2	3.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) Expeditionary Medical Facilities				-	-	28.000	-	-	7.831	-	-	-	-	-	0.000	-	-	5.000	-	-	5.000
3) U.S. Fleet Forces Command																					
3.1) Computerized Axial Tomography (CAT) Scan Replacement ^(t)		A		-	-	-	845,000.00	1	0.845	-	-	-	-	-	-	-	-	-	-	-	-
3.2) Rad Fluoro Replace w/Wireless Digital Imaging Option ^(t)		A		-	-	-	-	-	-	553,000.00	1	0.553	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8109 / Medical Support Equipment						Aggregated Items Title: Medical Support Equipment								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.3) Oxygen Nitrogen (O2N2) Automated Control Sysem	A		901,000.00	1	0.901	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.4) Computerized Axial Tomography (CAT) Scanner ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	0.000	1,500K	1	1.500	1,500K	1	1.500
Subtotal: 3) U.S. Fleet Forces Command			-	-	0.901	-	-	0.845	-	-	0.553	-	-	0.000	-	-	1.500	-	-	1.500
4) PACFLT																				
4.1) Computerized Axial Tomography (CAT) Scan Replacement ^(†)	A		-	-	-	835,000.00	1	0.835	-	-	-	-	-	-	-	-	-	-	-	-
4.2) Infusion Pump, Multi-therapy ^(†)	A		-	-	-	-	-	-	2,166.67	300	0.650	-	-	-	-	-	-	-	-	-
4.3) Patient Isolation Wards ^(†)	A		-	-	-	-	-	-	-	-	-	875,000.00	1	0.875	-	-	-	875,000.00	1	0.875
Subtotal: 4) PACFLT			-	-	0.000	-	-	0.835	-	-	0.650	-	-	0.875	-	-	-	-	-	0.875
Total			-	-	40.049	-	-	11.959	-	-	4.383	-	-	3.352	-	-	6.500	-	-	9.852
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
^(†) indicates the presence of a P-5a																				
Footnotes:																				
⁽¹⁾ (Note: Unit costs may not multiply exactly to total costs due to rounding). These funds are to be used to procure new technology requirements introduced to the FLEET during recent AMAL/ADAL review. Implementation focuses on L-decks and Carriers meeting Required Operational Capability in response to changes in standard of medical care provided to the ship' s force by organic medical teams. Ships identified to be outfitted with these requirements as well as the required quantities are determined by FFC but may change prior to targeted implementation dates outlined in this submittal. Furthermore, the total equipment cost is expected to increase due to the likelihood of Ship Configuration Change factors and the proliferation of medical technology over 3 years prior to implementation.																				
⁽²⁾ The Direct Digital Radiology system is required to keep pace with the advanced nature of diagnostic imaging. It is a form of X-Ray imaging, in which digital X-ray sensors are used instead of traditional photographic film. This provides shipboard medical personnel the capability to digitally process, and store images thereby reducing film development time, maintenance, and storage costs. This also provides seamless integration of digital imaging with other systems used in Telemedicine, creating a more efficient process that bypasses chemical processing and provides the ability to digitally transfer and enhance images. Using an existing DLA-TS IDIQ Contract, NMLC will procure equipment from AGFA Health Care. The installation and related procurement plan for Direct Digital Radiology units reflects ship availability for installation periods (per data from the Navy Data Environment database). Equipment is procured in the year preceding installation. Units will be procured as follows: 3 in FY18; and 3 in FY19 and 3 per year for years 20-22.																				
⁽³⁾ The Computed Axial Tomography (CAT) Scan system is primarily used for medical imaging that supports or helps establish the diagnosis of a certain type of disease after more primitive diagnostic exams have been performed, like the X-ray and standard ultrasound. The CAT scan provides a critical diagnostic tool in the field of Expeditionary Medicine in that it can help in the emergent diagnosis of brain injuries, bleeding within body cavities, and bone malformations.																				
⁽⁴⁾ A Digital X-Ray Shelter is a filmless radiographic system that provides higher resolution diagnostic images of patients. The Expeditionary Medical Facilities are tasked to provide Level 3 Theater Surgical Care for deployed military and civilian personnel at risk. The current "standards of medical care" now require that this capability be available as part of the Theater Hospitalization. One (1) Digital X-Ray unit is slated for each of the current prepositioned hospitals as a "phased replacement" for the obsolete film based X-ray systems/units.																				
⁽⁵⁾ Expeditionary Medical Units (EMUs) are used in support of Operation Inherent Resolve (OIR). BUMED maintains a capability of four EMU-10 units. EMU-10s provide care to patients in theater, including the following capabilities: two Operating Room Tables; four Intensive Care Unit (ICU) beds; six Acute Care Wing (ACW) beds; Base Tent Configuration; Completion of operational set up within 24 hours. Impact if not funded: Total inventory of EMU-10 units would be reset from 4 to 3 total. As a result, BUMED would be unable to maintain operational requirements for the EMUs.																				
⁽⁶⁾ Part of the FY16 CSI funding of \$28M to cover procurement of EMF Tents and New Capabilities.																				
⁽⁷⁾ Part of the FY16 CSI funding of \$28M to cover procurement of EMF Tents and New Capabilities. FY17 CSI Funding in the amount of \$7.831K to cover EMF Tents.																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8109 / Medical Support Equipment	Aggregated Items Title: Medical Support Equipment
(8) Part of the FY16 CSI funding of \$28M to cover procurement of EMF Tents and New Capabilities. (9) Part of the FY16 CSI funding of \$28M to cover procurement of EMF Tents and New Capabilities.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8109 / Medical Support Equipment						Aggregated Items: Medical Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) BUMED												
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2013	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	May 2013	Sep 2013	7	294,192.43	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2014	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	May 2014	Sep 2014	14	142,455.57	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2015	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	May 2015	Sep 2015	4	340,000.00	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2017	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	May 2017	Sep 2017	3	340,000.00	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2018	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	Oct 2017	Oct 2017	3	360,000.00	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2019	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	NMLC - Fort Detrick MD	Oct 2018	Oct 2018	3	327,000.00	N		
1.2) Direct Digital Radiology - Installation		2013	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2013	Sep 2013	7	85,860.00	Y		
1.2) Direct Digital Radiology - Installation		2014	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2014	Sep 2014	1	85,860.00	Y		
1.2) Direct Digital Radiology - Installation		2015	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2015	Sep 2015	3	200,000.00	Y		
1.2) Direct Digital Radiology - Installation		2016	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2016	Sep 2016	1	66,000.00	Y		
1.2) Direct Digital Radiology - Installation		2017	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2017	Sep 2017	3	208,000.00	Y		
1.2) Direct Digital Radiology - Installation		2018	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2018	Sep 2018	3	212,000.00	Y		
1.2) Direct Digital Radiology - Installation		2019	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	NMLC - Fort Detrick MD	Oct 2018	Oct 2018	3	205,000.00	N		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8109 / Medical Support Equipment					Aggregated Items: Medical Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.5) Computerized Axial Tomography (CAT) Scan Replacement ⁽³⁾		2014	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Aug 2014	Aug 2015	1	1,300K	Y		
1.5) Computerized Axial Tomography (CAT) Scan Replacement ⁽³⁾		2016	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	May 2016	May 2017	1	1,313K	Y		
1.6) Digital X-Ray Shelters ⁽⁴⁾		2017	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	May 2017	May 2018	1	760,000.00	Y		
2) Expeditionary Medical Facilities												
2.1) Expeditionary Medical Unit (EMU) Recapitalization ⁽⁵⁾	✓	2019	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC/Defense Supply Center, Philadelphi	Jan 2019	Mar 2019	1	5,000K	N		
2.2) EMF Tent Replacement ⁽⁶⁾		2016	Atlantic Diving Supply, Inc. / Virginia Beach, VA	C / FP	DLA- Philadelphia, PA	Jan 2017	Jun 2017	1	4,087K	N		
2.3) EMF Tent Replacement and Upgrades ⁽⁷⁾		2016	Atlantic Diving Supply, Inc. / Virginia Beach, VA	C / FP	DLA- Philadelphia, PA	Jul 2017	Oct 2017	2	3,956K	N		
2.4) Roll 2 Enhanced COTS & New Capabilities ⁽⁸⁾		2016	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2017	Dec 2017	1	13,000K	N		
2.5) Roll 2 Light Maneuver Operational Equipment Set ⁽⁹⁾		2016	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Mar 2017	Jun 2017	2	1,500K	N		
3) U.S. Fleet Forces Command												
3.1) Computerized Axial Tomography (CAT) Scan Replacement		2017	General Electric Co. / Waukesha, WI 53188-1615	C / FFP	NMLC-Fort Detrick, MD	Jan 2017	Jan 2017	1	845,000.00	N		
3.2) Rad Fluoro Replace w/ Wireless Digital Imaging Option		2018 ⁽¹⁰⁾	TBD / TBD	TBD	TBD	Oct 2017	Aug 2018	1	553,000.00	N		
3.4) Computerized Axial Tomography (CAT) Scanner	✓	2019	TBD / TBD	TBD	TBD	Oct 2018	Oct 2019	1	1,500K	N		Aug 2018
4) PACFLT												
4.1) Computerized Axial Tomography (CAT) Scan Replacement		2017	TBD / TBD	C / TBD	NMLC - Fort Detrick MD	Dec 2017	Dec 2018	1	835,000.00	Y		Sep 2017
4.2) Infusion Pump, Multi-therapy		2018 ⁽¹¹⁾	TBD / TBD	C / FP	NMLC - Fort Detrick MD	Dec 2017	Dec 2017	300	2,166.67	N	Nov 2017	Sep 2017
4.3) Patient Isolation Wards		2019	TBD / TBD	C / TBD	TBD	Jan 2019	Jan 2020	1	875,000.00	N	Oct 2018	Oct 2018

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8109 / Medical Support Equipment	Aggregated Items: Medical Support Equipment
Footnotes: (10) General Electric (11) Manufacturer TBD upon award of contract		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0305192N				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>)	12.514	1.925	2.030	1.984	0.000	1.984	2.483	2.039	2.078	2.119	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.514	1.925	2.030	1.984	0.000	1.984	2.483	2.039	2.078	2.119	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.514	1.925	2.030	1.984	0.000	1.984	2.483	2.039	2.078	2.119	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: DRP: This effort procures, installs, configures, and sustains critical Maritime Intelligence applications to include primary and secondary servers and enterprise data storage systems containing mission critical Naval Intelligence information at ONI and off-site Disaster Recovery locations. Fleet SCI IT: This effort delivers and sustains SCI network access and information technology infrastructure and tools to the Maritime Operations Centers and Naval Intelligence Community ashore. This includes desktop hardware, software, and peripherals, network equipment, server hardware and software, video teleconferencing devices, secure voice over IP telephones. Navy SCI IA: The Navy SCI IA Worldwide program is focused on issuance of Authorities to Operate (ATO's) for all Navy systems that process, store, and/or transmit Sensitive Compartmented Information (SCI), to include tactical capabilities. Utilizes the Intelligence Community Directive 503 (ICD 503) Risk Management Framework (RMF) to ensure Federal Information Security Management Act (FISMA) compliance. [P40A / SCI IA]: Funding enables Navy tactical SCI program capabilities needed for the establishment of an initial capability and fully operational capability to meet full compliance with ICD 502 and provide active cyber defense and incident response of the information environment for the IC and establishes the framework for risk management and authorization (RMF) across all systems that process, store and/or transmit SCI												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0305192N			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-40a	Naval MIP Support Equipment	P-5a			- / 12.514	- / 1.925	- / 2.030	- / 1.984	- / -	- / 1.984
P-40	Total Gross/Weapon System Cost				- / 12.514	- / 1.925	- / 2.030	- / 1.984	- / 0.000	- / 1.984
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

Decrease to FY17 - Navy SCI IA funding reprogrammed to OMN in order to provide materials necessary for Information Assurance Certification of SCI-level classified networks afloat.

The FY 2017 request was reduced by -\$0.082 million as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The FY 2018 funding enables continued network equipment and storage upgrades for the Naval Intelligence community.

The FY 2019 funding enables continued network and storage equipment sustainment and modernization for the Maritime Operations Centers and the Naval Intelligence community.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment								Aggregated Items Title: Naval MIP Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Naval MIP Support Equipment																				
1.1) Network Storage Systems ⁽¹⁾	A		458,272.73	11	5.041	1,087K	1	1.087	1,171K	1	1.171	1,119K	1	1.119	-	-	-	1,119K	1	1.119
1.2) Computer Hardware Refresh ⁽¹⁾ ^(t)	A		1,439.24	897	1.291	313,000.00	1	0.313	262,000.00	1	0.262	238,000.00	1	0.238	-	-	-	238,000.00	1	0.238
1.3) Network Equipment upgrades/refresh ⁽²⁾ ^(t)	A		10,000.00	95	0.950	250,000.00	1	0.250	300,000.00	1	0.300	325,000.00	1	0.325	-	-	-	325,000.00	1	0.325
1.4) Video Conference Equip refresh ⁽³⁾ ^(t)	A		17,187.50	32	0.550	275,000.00	1	0.275	297,000.00	1	0.297	302,000.00	1	0.302	-	-	-	302,000.00	1	0.302
1.5) Solid State disk shelves and flash cache ^(t)	A		103,666.67	9	0.933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) Network Storage Systems ^(t)	A		51,391.30	23	1.182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Naval MIP Support Equipment			-	-	9.947	-	-	1.925	-	-	2.030	-	-	1.984	-	-	-	-	-	1.984
2) SCI IA ⁽⁴⁾																				
2.1) Equip/Software/Licenses ^(t)	A		1,291K	1	1.291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) Upgrade tools ^(t)	A		1,276K	1	1.276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) SCI IA			-	-	2.567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	12.514	-	-	1.925	-	-	2.030	-	-	1.984	-	-	-	-	-	1.984
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
^(t) indicates the presence of a P-5a																				
Footnotes:																				
⁽¹⁾ Changed basis from individual computers and parts to computer system.																				
⁽²⁾ Changed basis from individual network parts to a network system.																				
⁽³⁾ Changed basis from individual video equipment to a video system.																				
⁽⁴⁾ Funding enables Navy tactical SCI program capabilities needed for the establishment of an initial capability and fully operational capability to meet full compliance with ICD 502 and provide active cyber defense and incident response of the information environment for the IC and establishes the framework for risk management and authorization (RMF) across all systems that process, store and/or transmit SCI																				

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment						Aggregated Items: Naval MIP Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Naval MIP Support Equipment												
1.1) Network Storage Systems I		2012	Network Appliance / Washington, DC	C / FFP	NAVICP, Mechanicsburg, PA	Mar 2012	Mar 2012	3	412,333.33	N	Jan 2012	Dec 2011
1.1) Network Storage Systems I		2013	Network Appliance / Washington, DC	C / FFP	NAVICP, Mechanicsburg, PA	Mar 2013	Mar 2013	3	484,666.67	N	Jan 2013	Dec 2012
1.1) Network Storage Systems I		2014	Network Appliance / Washington, DC	C / FFP	NAVICP, Mechanicsburg, PA	Mar 2014	Mar 2014	2	0.00	N	Jan 2014	
1.1) Network Storage Systems I		2015	Network Appliance / Washington, DC	C / FFP	NAVICP, Mechanicsburg, PA	Dec 2014	Mar 2015	1	1,060K	N	Aug 2014	
1.1) Network Storage Systems I		2016	Network Appliance / Washington, DC	C / FFP	** NO PCO **	Dec 2015	Mar 2016	2	645,000.00	N	Aug 2015	
1.1) Network Storage Systems I		2017	Network Appliance / Washington, DC	C / FFP	** NO PCO **	Dec 2016	Mar 2017	1	1,087K	N	Aug 2016	
1.1) Network Storage Systems I		2018	Network Appliance / Washington, DC	C / CPFF	** NO PCO **	Dec 2017	Mar 2018	1	1,171K	N	Aug 2017	
1.1) Network Storage Systems I		2019	Network Appliance / Washington, DC	C / CPFF	** NO PCO **	Dec 2018	Mar 2019	1	1,119K	N	Aug 2018	
1.2) Computer Hardware Refresh (1)		2013	VARIOUS / Various	C / TBD	TBD	Mar 2013	Mar 2013	205	2,000.00	N	Jan 2013	Dec 2012
1.2) Computer Hardware Refresh (1)		2014	VARIOUS / Various	C / TBD	TBD	Mar 2014	Mar 2014	250	0.00	N	Dec 2013	Dec 2013
1.2) Computer Hardware Refresh (1)		2015	VARIOUS / Various	C / TBD	TBD	Mar 2015	Mar 2015	315	2,000.00	N	Dec 2014	Dec 2014
1.2) Computer Hardware Refresh (1)		2016	VARIOUS / Various	C / TBD	** NO PCO **	Jan 2016	May 2016	127	1,976.38	N	Dec 2015	
1.2) Computer Hardware Refresh (1)		2017	VARIOUS / Various	C / TBD	** NO PCO **	Jan 2017	May 2017	1	313,000.00	N	Dec 2016	
1.2) Computer Hardware Refresh (1)		2018	VARIOUS / Various	C / TBD	** NO PCO **	Jan 2018	May 2018	1	262,000.00	N	Dec 2017	
1.2) Computer Hardware Refresh (1)		2019	VARIOUS / Various	C / TBD	** NO PCO **	Jan 2019	May 2019	1	238,000.00	N	Dec 2018	
1.3) Network Equipment upgrades/ refresh (2)		2013	TBD / TBD	C / TBD	TBD	Mar 2013	Mar 2013	30	10,000.00	N	Dec 2012	
1.3) Network Equipment upgrades/ refresh (2)		2015	TBD / TBD	C / TBD	** NO PCO **	Dec 2014	Mar 2015	40	10,000.00	N	Dec 2014	
1.3) Network Equipment upgrades/ refresh (2)		2016	TBD / TBD	C / TBD	** NO PCO **	Dec 2015	Mar 2016	25	10,000.00	N	Dec 2015	
1.3) Network Equipment upgrades/ refresh (2)		2017	TBD / TBD	C / TBD	** NO PCO **	Dec 2016	Mar 2017	1	250,000.00	N	Dec 2016	

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment					Aggregated Items: Naval MIP Support Equipment				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.3) Network Equipment upgrades/ refresh ⁽²⁾		2018	TBD / TBD	C / TBD	** NO PCO **	Dec 2017	Mar 2018	1	300,000.00	N	Dec 2017	
1.3) Network Equipment upgrades/ refresh ⁽²⁾		2019	TBD / TBD	C / TBD	** NO PCO **	Dec 2018	Mar 2019	1	325,000.00	N	Dec 2018	
1.4) Video Conference Equip refresh ⁽³⁾		2013	TBD / TBD	C / TBD	TBD	Mar 2013	Mar 2013	12	25,000.00	N	Dec 2012	
1.4) Video Conference Equip refresh ⁽³⁾		2014	TBD / TBD	C / TBD	TBD	Mar 2014	Mar 2014	10	0.00	N	Dec 2013	
1.4) Video Conference Equip refresh ⁽³⁾		2016	TBD / TBD	C / TBD	** NO PCO **	Feb 2016	Jun 2016	10	25,000.00	N	Dec 2015	
1.4) Video Conference Equip refresh ⁽³⁾		2017	TBD / TBD	C / TBD	** NO PCO **	Feb 2017	Jun 2017	1	275,000.00	N	Dec 2016	
1.4) Video Conference Equip refresh ⁽³⁾		2018	TBD / TBD	C / TBD	** NO PCO **	Feb 2018	Jun 2018	1	297,000.00	N	Dec 2017	
1.4) Video Conference Equip refresh ⁽³⁾		2019	TBD / TBD	C / TBD	** NO PCO **	Feb 2019	Jun 2019	1	302,000.00	N	Dec 2018	
1.5) Solid State disk shelves and flash cashe		2013	TBD / TBD	C / TBD	TBD	Mar 2013	Mar 2013	2	146,500.00	N	Dec 2012	
1.5) Solid State disk shelves and flash cashe		2014	TBD / TBD	C / TBD	TBD	Mar 2014	Mar 2014	3	0.00	N	Dec 2013	
1.5) Solid State disk shelves and flash cashe		2015	TBD / TBD	C / TBD	** NO PCO **	Oct 2014	Oct 2014	4	160,000.00	N		
1.6) Network Storage Systems		2013	TBD / TBD	C / TBD	TBD	Mar 2013	Mar 2013	4	84,750.00	N	Dec 2012	
1.6) Network Storage Systems		2014	TBD / TBD	C / TBD	TBD	Mar 2014	Mar 2014	9	0.00	N	Dec 2013	
1.6) Network Storage Systems		2015	TBD / TBD	C / TBD	** NO PCO **	Oct 2014	Oct 2014	10	84,300.00	N		
2) SC I A												
2.1) Equip/Software/ Licenses		2016	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	1,291K	Y		
2.2) Upgrade tools		2016	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	1,276K	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip					
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>)	18.181	3.822	23.300	15.131	0.000	15.131	16.905	16.322	12.683	12.843	-	119.187
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	18.181	3.822	23.300	15.131	0.000	15.131	16.905	16.322	12.683	12.843	-	119.187
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	18.181	3.822	23.300	15.131	0.000	15.131	16.905	16.322	12.683	12.843	-	119.187
<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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
This budget line item funds procurement of various items of equipment to support the operating forces at Naval Stations and related facilities, including, but not limited to the following:

Mobile Aircraft Fire Training Devices: are necessary for the Navy's firefighters to meet minimum firefighting requirements and qualifications. Baseline budget replaces dilapidated equipment and procures new systems to ensure that the Navy's firefighters are able to keep up to date on technology and techniques of interior and/or exterior firefighting. Strategic placement of these devices will also minimize travel training costs and maximize our members training opportunities. New training devices will allow CNIC to meet OPNAVINST, Department of Defense and National Fire Protection Association standards for Fire Service training requirements. Live fire training devices ensure proficiency of fire and emergency services personnel.

Cranes and/or Boat Hoists: Procurement of cranes/hoist of various types and sizes (Davit/Bridge/Portal/Gantry/Mobile Harbor). All are weight handling systems designed/selected to meet the specific requirements of the intended facility.

Fender/Bumper/Separator Systems: Procurement includes various size and shaped energy absorbing cushions placed between a pier and a ship/submarine or between two ships/submarines. Multiple fenders may be used with different size and types of ships. Various types of filling of air or other material may be procured. Standard type is hydro-pneumatic rubber fender made IAW ISO 17357. May be used for both submarine and surface ships.

Composite CVN Camels: Procurement of large floating metal or composite structures designed to maintain the proper distance for CV/CVNs to keep the ships from being damaged or damaging the pier structure. When USN Carriers are placed alongside a pier the hull design dictates the need to use standoff equipment. The camels requested provide the necessary standoff. These composite camels offer considerable reduction in maintenance due to constructed material. As currently utilized ship support equipment ages it becomes necessary to replace that equipment. Equipment procurement budgets are not adequate to keep up with the demand for ship support equipment. As more ships are placed into service the requirement exceeds currently available support equipment.

Submarine Deep Draft Camels: Procurement of very large floating metal structures designed to maintain the proper distance for submarines to keep them from being damaged by the pier. These may be for specific submarine classes (e.g. Fast Attack), or universal (i.e. for all submarine classes).

Universal Submarine Composite Camels: Procurement of universal pierside, composite camels used to breast submarines from piers/wharves. They are fabricated of universal composite material with a modular design. Size is approximately 36 ft W x 18 ft H x 17.6 ft D. Made per a standard NAVFAC drawing. Suitable for all classes of submarines.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip
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		
Utility and Maintenance/Paint Floats and Barges: Procurement of floating assets that are used by Port Operations and Ship's Force personnel to facilitate external ship work (blasting, painting, other maintenance). They can also be used as separators or camels. These can be towed into place, or may even be self-propelled. They may have permanent or movable work platforms installed as needed to assist in reaching work sites. Some may have self-ballasting mechanisms to help maintain stability and come in various sizes. Composite Sub camels - as constructed the composite Submarine camels significantly reduce the amount of maintenance required to keep the units serviceable. Older models, reaching the end of serviceability are made of steel and in some cases wood. To overhaul these units requires considerable manpower. The older units do not provide the same level of hull protection the composite units provide. Equipment procurement budgets are not adequate to keep up with the demand for ship support equipment. As more ships are placed into service the requirement exceeds currently available support equipment. [P40A / DDG Separators]: Large floating metal structures designed to maintain the proper distance for DDG's when nested outboard of another DDG. Also, provides protection from ship-to-ship damage due to vessel maneuvers or where vessel-to-pier contact may occur. [P40A / CVN Camels (Steel/Composite)]: CVN Camels: Procurement of very large floating composite structures, designed to maintain the proper standoff distance for CVNs to keep the ships from being damaged or damaging the pier structure. This budget request supports the Navy's CVN 21 Future Carrier ship coming online. Currently, there are no viable assets (CVN Camels) to support homeporting for the Navy' new CVN. The cost increase is associated with using composite material vice steel. These CVN camels are designed to last 25 years. The current inventory of steel CVN camel are past their service life and require an overhaul, without which they may only keep afloat for a couple of years. [P40A / Patrol Craft Signal Intelligence (SIGINT) Capability]: Persistent Intelligence, Surveillance, and Reconnaissance (ISR) in the Maritime Domain and Choke Points is on the United States Central Command (USCENTCOM) FY18-22 Integrated Priorities List. Funding will provide a cryptologic capability on all patrol craft (PC) units to the USCENTCOM area of responsibility (AOR). There are currently two PC units outfitted with a similar capability (PC-SCOUT). The original PC SCOUT project was funded with FY12 OPN and was executed in 2014 with installations onboard the two PCs that were non-permanent demonstration capabilities in November and December 2014. The original PC-SCOUT initiative filled critical intelligence gaps in U.S. Naval Forces Central Command's (NAVCENT) collection posture and provided unique access to targets of interest. Funding supports the upgrade of all 10 PCs with permanent, maintainable systems, expands the SIGINT capability and increases NAVCENT/Commander Fifth Fleet's (C5F) Organic Persistent ISR capability which will enable NAVCENT/C5F to meet intelligence requirements in the littorals not accessible by current collection platforms and program of record (POR) systems.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip				
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-40a	Operating Forces Supt Equip	P-5a			- / 18.181	- / 3.822	- / 23.300	- / 15.131	- / -	- / 15.131
P-40	Total Gross/Weapon System Cost				- / 18.181	- / 3.822	- / 23.300	- / 15.131	- / 0.000	- / 15.131
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown. 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 (\$0.340) 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. The FY19 budget supports delivery of new ship types, among them the Littoral Combat Ship (LCS) has a completely different hull configuration from other ship types and as such, requires mooring equipment which is different from the configurations used for all other ship types. It also supports replacement of Mobile Aircraft Fire Training Devices that have met or nearing life cycle. The budget continues to support replacement of current port operations equipment that are approaching the end of their service life, this budget also supports changes to ships' homeports which will require different and/or additional equipment to safely moor new ship types arriving at new locations. FY19 budget also procures replacement fenders/bumpers/separator systems to replace current inventory that will be at the end of their service life. These will be used at locations with heightened traffic and current infrastructure that is incapable of supporting the expanded requirement, specifically Jacksonville, FL and Pearl Harbor, HI. This budget also supports procurement of Mobile Aircraft Fire Training Devices at NSF Redzikowo, NAVSTA Whidbey Island, Guantanamo Bay, and Norfolk. FY19 funding continues to support CVN Camels for the Navy's CVN 21 Future Carrier ship coming online.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip								Aggregated Items Title: Operating Forces Supt Equip					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1) Commander, Navy Installations Command (CNIC)																				
1.1) OCO OPN for ISA AB Live Fire Trng Device	A		-	-	-	-	-	-	0.700	1	0.700	-	-	-	-	-	-	-	-	-
1.2) Mobile Aircraft Training Devices ^(†)	A		0.841	4	3.362	1.018	1	1.018	1.080	1	1.080	1.110	1	1.110	-	-	-	1.110	1	1.110
1.3) DDG Separators	A		0.378	3	1.133	0.421	2	0.842	-	-	-	0.433	7	3.031	-	-	-	0.433	7	3.031
1.4) Submarine Deep Draft Camel (N/S Design) (SEAWOLF) ^(†)	A		1.022	3	3.066	0.713	1	0.713	-	-	-	-	-	-	-	-	-	-	-	
1.5) Submarine Deep Draft Camel (Redesign)	A		0.708	1	0.708	-	-	-	-	-	-	0.773	2	1.546	-	-	-	0.773	2	1.546
1.6) Paint Maintenance Barge (65 Foot Lift) ^(†)	A		0.465	2	0.930	0.471	1	0.471	0.512	2	1.024	-	-	-	-	-	-	-	-	
1.7) Composite Universal Submarine Camels	A		1.047	6	6.282	-	-	-	1.275	1	1.275	1.330	1	1.330	-	-	-	1.330	1	1.330
1.9) Fenders/Bumpers P-383	A		2.700	1	2.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.13) CVN Camels (Steel/Composite)	A		-	-	-	-	-	-	4.121	1	4.121	3.160	1	3.160	-	-	-	3.160	1	3.160
1.15) Hydro Pneumatic Sub Fender	A		-	-	-	-	-	-	-	-	-	0.494	5	2.470	-	-	-	0.494	5	2.470
1.16) Pontoon Section	A		-	-	-	0.389	2	0.778	-	-	-	0.398	3	1.194	-	-	-	0.398	3	1.194
1.17) CVN Brow Stand	A		-	-	-	-	-	-	-	-	-	0.250	1	0.250	-	-	-	0.250	1	0.250
1.18) Ships Brows (various lengths)	A		-	-	-	-	-	-	-	-	-	0.520	2	1.040	-	-	-	0.520	2	1.040
Subtotal: 1) Commander, Navy Installations Command (CNIC)			-	-	18.181	-	-	3.822	-	-	8.200	-	-	15.131	-	-	-	-	-	15.131
2) Communications and ElectronicReadiness																				
2.1) Patrol Craft Signal Intelligence (SIGINT) Capability ^{(1)(†)}	A		-	-	-	-	-	-	1.510	10	15.100	-	-	-	-	-	-	-	-	-
Subtotal: 2) Communications and ElectronicReadiness			-	-	0.000	-	-	-	-	-	15.100	-	-	-	-	-	-	-	-	-
Total			-	-	18.181	-	-	3.822	-	-	23.300	-	-	15.131	-	-	-	-	-	15.131
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
^(†) indicates the presence of a P-5a																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip	Aggregated Items Title: Operating Forces Supt Equip

Footnotes:
(1) Equipment will be procured from NAVSEA and sustainment will be with OMN OCO funding.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip					Aggregated Items: Operating Forces Supt Equip			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Commander, Navy Installations Command (CNIC)												
1.2) Mobile Aircraft Training Devices		2016	KFT/Fireblast / New MFG - CA/NJ	MIPR	DLA	Apr 2016	Apr 2016	1	1.088	Y		
1.2) Mobile Aircraft Training Devices		2017	KFT/Fireblast / New MFG - CA/NJ	MIPR	DLA	Jun 2017	Jun 2017	1	1.018	N	Jun 2017	
1.2) Mobile Aircraft Training Devices		2018	KFT/Fireblast / New MFG - CA/NJ	C / TBD	** NO PCO **	Jun 2018	Jun 2018	1	1.080	N	Jun 2018	
1.2) Mobile Aircraft Training Devices		2019	KFT/Fireblast / New MFG - CA/NJ	C / TBD	** NO PCO **	Jun 2019	Jun 2019	1	1.110	N	Jun 2019	
1.4) Submarine Deep Draft Camel (N/S Design) (SEAWOLF)		2016	LBI / JB PEARL HARBOR-HICKAM	C / TBD	** NO PCO **	Oct 2015	Oct 2015	3	0.765	Y		
1.6) Paint Maintenance Barge (65 Foot Lift)		2016	Armstrong Marine, INC / JB PEARL HARBOR-HICKAM	C / FP	NSWC	Oct 2015	Oct 2015	2	0.465	Y		
2) Communications and ElectronicReadiness												
2.1) Patrol Craft Signal Intelligence (SIGINT) Capability ⁽¹⁾	✓	2018	TBD / UNKNOWN	C / FFP	** NO PCO **	Jan 2018	Jan 2018	10	1.510	N		

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment	P-1 Line Item Number / Title: 8120 / C4ISR 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: 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>)	102.860	9.073	4.010	3.576	0.000	3.576	6.003	3.345	3.522	3.600	-	135.989
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	102.860	9.073	4.010	3.576	0.000	3.576	6.003	3.345	3.522	3.600	-	135.989
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	102.860	9.073	4.010	3.576	0.000	3.576	6.003	3.345	3.522	3.600	-	135.989
<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:

Navy Expeditionary Command, Control, Communications, Computers, & Intelligence (C4I): Provides procurement, integration and initial training of Small, Medium, and Large Scale Communication Systems, that also involves convergence of these systems to a common Expeditionary C4I baseline. Includes the Navy Enterprise Tactical Command and Control (NETC2), Expeditionary Surveillance Control Central (ESCC), Ruggedized Deployable Satellite/Tactical Data Networks (RDSAT/TDN), Portable Radios, Blue Force Tracker and Joint Battle Command - Platform (JBC-P) for tactical vehicles and combatant craft, and Tactical/Command Operations Center in support of outfitting Table of Allowances (TOA) requirements within Expeditionary Forces. Ensures common C4I solutions are being coordinated, tracked, procured and integrated across Navy Expeditionary Forces (NEF).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8120 / C4ISR 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: 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-5	1 / C4ISR Equipment				- / 102.860	- / 9.073	- / 4.010	- / 3.576	- / 0.000	- / 3.576
P-40	Total Gross/Weapon System Cost				- / 102.860	- / 9.073	- / 4.010	- / 3.576	- / 0.000	- / 3.576
*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 (\$0.015) 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.

FY19 funds required for procurement, integration and modernization of Small, Medium and Large Scale Communication Systems for Naval Expeditionary forces. Additionally, program funds procure, integrate and modernize tactical C4I, Satellite Communication-on-the-Move, Sensors, Expeditionary Mine Countermeasure Companies (Ex-MCM), and Blue Force Tracker for tactical vehicles and combatant crafts.

FY19 funding to also be used for increased data throughput, Assured Command and Control posture, satellite communication reliability, and space resiliency via band diversity and redundancy for Commercial Broadband Satellite Program /Navy Multiband Terminal Military Satellite Communication equipped platforms and facilities.

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Exhibit P-5, Cost Analysis: PB 2019 Navy											Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8120 / C4ISR Equipment						Item Number / Title [DODIC]: 1 / C4ISR Equipment						
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				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				102.860		9.073		4.010		3.576		0.000		3.576				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				102.860		9.073		4.010		3.576		0.000		3.576				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				102.860		9.073		4.010		3.576		0.000		3.576				
(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>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Navy Expeditionary C4I Cost																		
Recurring Cost																		
1.1.1) Navy Expeditionary C4I - Active Component ⁽¹⁾	-	-	15.852	-	-	7.244	-	-	3.170	-	-	2.742	-	-	-	-	-	2.742
1.1.2) Navy Expeditionary C4I - Reserve Component	-	-	3.715	-	-	1.829	-	-	0.840	-	-	0.834	-	-	-	-	-	0.834
Subtotal: Recurring Cost	-	-	19.567	-	-	9.073	-	-	4.010	-	-	3.576	-	-	-	-	-	3.576
Subtotal: Hardware - Navy Expeditionary C4I Cost	-	-	19.567	-	-	9.073	-	-	4.010	-	-	3.576	-	-	-	-	-	3.576
Hardware - Consolidated Prior Year Requirements Cost																		
Recurring Cost																		
2.1.1) Consolidated Prior Year Requirements	-	-	83.293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	83.293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Consolidated Prior Year Requirements Cost	-	-	83.293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	102.860	-	-	9.073	-	-	4.010	-	-	3.576	-	-	0.000	-	-	3.576
Footnotes:																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8120 / C4ISR Equipment	Item Number / Title [DODIC]: 1 / C4ISR Equipment
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(1) Quantities are not provided for either the Active or Reserve components since various piece parts are being procured for small, medium, and large-scale asset modernization via quarterly Technical Review Board. There are also no associated installation costs.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8126 / Environmental Support 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: 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>)	89.998	19.439	24.644	31.902	2.200	34.102	26.477	25.951	27.984	26.942	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	89.998	19.439	24.644	31.902	2.200	34.102	26.477	25.951	27.984	26.942	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	89.998	19.439	24.644	31.902	2.200	34.102	26.477	25.951	27.984	26.942	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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: ACOUSTIC MEASUREMENT SYSTEM Lifecycle replacement and upgrade of digital acoustic measurement systems used to collect data used to build gridded data bases of layered geoacoustic descriptions of the ocean floor and low frequency bottom loss databases, collect fleet anti-submarine warfare support measurements, produce high resolution anti-submarine warfare area assessment products, and serve to provide critical environmental input to fleet acoustic transmission loss models. System consists of multi-channel variable depth buoys, shipboard data acquisition, control, and processing support systems. Buoys acquire the data, provide signal conditioning and gain, and store the data in digital form. ACOUSTIC POSITIONING SYSTEM (ULTRA SHORT BASELINE (USBL) The Acoustic Positioning System (APS) is an Ultra Short Baseline (USBL) Acoustic Positioning System used to provide high accuracy navigation and location of towed bodies and Autonomous Underwater Vehicles (AUVs) deployed from T-AGS 60 oceanographic survey vessels. The APS is permanently installed aboard each vessel and supports tracking objects in any direction out to a 5000m radius. In addition, it is used to precisely locate lost vehicles or instrumentation for purposes of recovery. Current navigation techniques can be inaccurate as they rely on approximations resulting in imprecise location data and degraded environmental data. This can lead to a substantially increased processing time and increased risk of missed coverage. With the ability of APS to determine accurate location data, the cost, practicality, and search time to recover a lost vehicle is substantially reduced. CROSS DOMAIN SOLUTION (CDS) Meteorology and Atmospheric data is a highly perishable, mission-essential element in planning for almost all operational missions performed by the United States Navy. Excessive time delays in dissemination of oceanographic and meteorological products/services may add significant risk to our operational forces. This CDS provides a mechanism by which oceanographic and meteorological products/services can be disseminated to DoD end users on the SIPRNET as it is collected and produced. DEEP MULTIBEAM INSTALLATION The full ocean multibeam sonar system is the primary ocean mapping tool in greater than 300 meters of water to full ocean. The deep-water multibeam system will be a state-of-the-art commercial one by one degree multibeam having a maximum swath coverage of six times water depth. The survey system includes an integrated deep water sub-bottom profiler system. The system will be installed on all T-AGS 60 class ships as a life-cycle replacement for the existing deep water multibeam system which has exceeded its life expectancy and will no longer be supported by the manufacturer. Multibeam systems collect deep-water bathymetry data required to support special chart production for the Navy. DIGITAL SIDE SCAN SONAR (SHIP) Additional high-speed, high resolution side scan sonar systems are required to meet fleet requirements supporting mine warfare operations. The intended system procured will be installed aboard USNS HENSON and additional T-AGS 60 class ships to replicate the system aboard USNS HEEZEN. The procurement will facilitate simultaneous collection of high resolution imagery at mine warfare resolutions and frequencies. The imagery data is required to generate products that directly support mine warfare, hydrographic and oceanographic requirements. Side scan sonar data is critical for												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8126 / Environmental Support 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: N/A		
the detection of small mine-like targets as well as hazards-to-navigation (e.g. wrecks) and characterizing the sea-floor over large areas (geoprovincing). This data is fundamental to execute MIW change-detection doctrine comparing historical data to current data to determine mine-threats.		
FLEET SURVEY TEAM INTEGRATED SURVEY PLATFORM Purchases transportable hydrographic survey platform systems used for rapid response, contingency, and emergent high-priority survey requirements. The platform is 7-9 meter air-transportable survey boat (Rigid Hull Inflatable Boat (RHIB) type) with installed and fukky-integrated Multibeam Echo-Sounder RESON 7125, Single Beam Echo-Sounder, Digital Side Scan Sonar, Wide-Area Differential Global Positioning System navigation, Inertial Motion sensor system, Data Acquisition Work-Station (PC), Sound Velocity Probe, and Electric winch. The boat and trailer are designed for transport in a C-130 aircraft and rigged for hoisting.		
HYDROGRAPHIC SURVEY LAUNCH (HSL) MISSION EQUIPMENT This OPN line item involves the life-cycle replacement of the entire mission equipment suite currently installed aboard the operational fleet of HSL (seven HSLs and the Bertram). The mission equipment suite includes, but is not limited to, shallow water multibeam systems, single beam systems, navigation systems, data collection and storage systems, forward-looking sonar systems, and digital side scan systems. This does not include high-resolution digital side scan systems used for mine warfare. Life-cycle replacement of these systems is critical to ensure state-of-the-art hydrographic surveying capability in littoral areas. Also, due to the harsh environmental conditions encountered by HSLs during typical hydrographic surveys, planned replacement of their mission equipment is necessary to guarantee long-term supportability.		
INTEGRATED SUB-BOTTOM PROFILER The sub-bottom profiler system provides high resolution digital acoustic data that describes the physical depth and acoustic characteristics of the ocean bottom and its subsurface layers over full ocean depth. This data is used in the development of products to support Anti-Submarine Warfare (ASW) and Mine Warfare programs with tactical environmental data. The sub-bottom profiler is also used to identify suitable deployment areas for installing bottom-mounted navigational beacons supporting Autonomous Underwater Vehicle (AUV) operations. These systems are life cycle replacements for existing Sub Bottom Profiler systems that have exceeded life expectancy and do not currently provide high resolution digital acoustic data with precision positioning and navigational capability that is required for Mine Warfare missions. Systems will operate in conjunction with the new deep-water multibeam systems that were installed in FY15.		
LITTORAL BATTLESPACE SENSING, FUSION, AND INTEGRATION (LBSF&I) supports ocean sensing and data collection and the integration of that data into a common environmental picture. Funding supports procurement of a technology infrastructure capability designed to fuse and integrate data collected under this program with extant static and dynamic data to produce the best available and most accurate battle space environmental characterization used to deliver decision superiority and information dominance to the combatant commander.		
LONG TERM AMBIENT NOISE RECORDING AND REPORTING SYSTEM Long Term Ambient Noise Recording and Reporting System is a moored, acoustic buoy system used to support ISR missions. The buoys are four channel Environmental Acoustic Recording System (EARS) units that will record ambient noise for long time periods within an 8kHz bandwidth. The Environmental Acoustic Recording System buoys will have to be recovered for data processing.		
MASTER CLOCK SYSTEMS These systems consist of: Rubidium (Rb) Fountain Clocks, which are advanced, non-commercial atomic clocks that are based on laser cooling and trapping of atoms; hydrogen masers; precise time measurement systems; amplifiers; and environmental conditioning systems to maintain precise temperature and humidity controls. These systems will allow for more rapid, robust and autonomous characterization of the Rubidium Fountains and Hydrogen Masers in the timing ensemble at United States Naval Observatory (USNO). Rb fountain clocks deliver the precise time and time interval required to support Global Positioning System (GPS) III requirements and national assets.		
OCEANOGRAPHIC INFORMATION SYSTEM (OIS) ARCHITECTURE The Oceanographic Information System (OIS) architecture provides the corporate information technology infrastructure to enable the collection, processing, storage, archival, retrieval, and dissemination of oceanographic data, products, and other scientific information delivering Meteorological and Oceanographic (METOC) superiority to the Fleet. Funds life cycle support and technology refresh to upgrade the end-to-end processing and production systems. Deployment of new state-of-the-art oceanographic sensors, such as high-speed, high-resolution digital side scan sonar systems, collect data volumes far in excess of the current OIS capability to receive, process, store, and archive data. The integration of Fleet through-the-sensor data into OIS production and the collection of remotely sensed data add to the complexity of the technology infrastructure required for OIS. Upgrades to existing corporate storage resources that support the data warehouse and expand the storage area network to meet anticipated data storage requirements are included. The Primary Oceanographic Prediction System (POPS) and OIS FY18-22 funding was transferred to SPAWAR.		
PORTABLE MULTIBEAM REPLACEMENT Portable Multibeam Sonar System is a roll-on/roll-off life cycle replacement for the RESON 8101 (4 systems) and the RESON 8125 (1 system). These systems provide the means to rapidly deploy a multibeam capability onto a craft of opportunity in order to support emergent naval requirements. Portability is key to enable rapid response to urgent or short-fused demands. The		

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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		
new systems provide an increase in survey efficiency, reduced maintenance costs, and an improvement in data quality. The Portable Multibeam Sonar System that replaces the RESON 8125 will provide high-resolution swath bathymetry along with side scan sonar imaging capability. This system will provide bottom imagery to facilitate MIW route surveys and navigation hazard surveys.		
PRIMARY OCEAN PREDICTION SYSTEM (POPS) ENHANCEMENTS Primary Oceanographic Prediction System (POPS)-Meteorology (Met) provides the key production engine enabling global Meteorological and Oceanographic Command (METOC) support of the fleet. POPS-Met operates within a 24/7 reachback operations center supporting global fleet operations with weather and ocean prediction products and warfighting applications that are critical to fleet safety and warfighting effectiveness. POPS-Met provides the technology and infrastructure to sustain global operations ashore and afloat by providing timely, relevant, 24/7 METOC data and products to the fleet, Department of Defense, joint, allied, and coalition warfighters at all classification levels. POPS-Met acquires and sustains the operation of high-performance computing (HPC) environments to provide most of the assured METOC forecast products and services for Tier 1 of the Battlespace on Demand, which originate directly from the METOC models, satellite processing software, and applications. Tier 1 also provides input to many of the Battlespace on Demand Tier 2 and Tier 3 Products. Ongoing technology refreshment is required to meet the growing demand for these products, particularly in response to greater emphasis on preparation for and response to regional conflicts, and the greater data volume from the National Polar-orbiting Partnership (NPP) and future remotely sensed environmental data sources. The required technology refreshment includes enhancements of the POPS-Met hardware and software, models suite, observational data ingest capability, data distribution capability, and reachback customer support. Together, these enhancements will provide the Fleet with more accurate and responsive environmental support across all three Tiers of Battlespace on Demand.		
SHARC-REMUS ACOMM SYSTEM The SHARC-REMUS ACOMM System (SRAS) is an Acoustic Positioning System (APS) which provides high accuracy navigation and location of Remote Environmental Monitoring Units (REMUS) Autonomous Underwater Vehicles (AUVs). The APS is installed aboard a Sensor Housing Autonomous Remote Craft (SHARC), a long-duration Unmanned Surface Vehicle (USV) that utilizes wave energy for propulsion and solar panels for energy replenishment of core systems and sensors. The SHARC, equipped with the SRAS, functions as a Communications and Navigation Aid (CNA) to the submerged REMUS AUV by means of acoustic signaling. Working in tandem with the AUV, the SHARC SRAS eliminates the need for the REMUS AUV to come to the surface for routine communications and navigation fix updates. The AUV maintains a submerged posture, while the SRAS provides updates to its navigational position, and allows over-the-horizon communications for sending back AUV position and status messages, snippets of sidescan and bathymetric data and subsequent redirection of the AUV. Current submerged AUV navigation techniques can be inaccurate as they rely on approximations resulting in imprecise location data and degraded environmental data, and require the AUVs to surface for frequent navigational fixes. This can lead to a substantially increased processing time and increased risk of missed coverage.		
SHIP MOVING VESSEL PROFILER (MVP)The Shipboard MVP is the larger shipboard complement to the HSL MVP. Intended for use from T-AGS 60 platforms, the system consists of a compact and recoverable probe integrated with a computer controlled over-the-side handling system. It permits the rapid and automated acquisition of sound velocity profile data from an underway vessel and significantly increases multibeam survey efficiency by acquiring highly accurate automated sound velocity profile data in the critical 0- 400m water layer.		
SHIP TO SHORE DATA COMMUNICATIONS The Ship to Shore Data Communications system provides high-speed digital data communication between survey ships and the NAVOCEANO Survey Operations Center at Stennis Space Center, Mississippi, using either C-band or Ku-band satellites. Real-time survey data is delivered to Non-classified Internet Protocol Router (NIPR) or Secret Internet Protocol Router (SIPR) computers for rapid processing to produce near real-time products for the war fighter. Data is transmitted from ship to shore at nominal rate of 1,024,000 bits per second and from shore to ship at a nominal rate of 256,000 bits per second. The system also provides the survey ship with classified and unclassified email and Voice-over-IP communication. This is the sole capability which allows rapid turnaround of survey data to support the warfighter in today's highly-compressed warfighting scenarios. Life cycle OPN replacements were programmed starting in FY11.		
TIME DISTRIBUTION SYSTEM Time is distributed via telephone, modem, Global Positioning System (GPS), Two Way Satellite Time Transfer (TWSTT). Funding is for distribution systems necessary to transfer and distribute time to users. This consists of receivers systems for M Code receiver systems, Two Way Satellite Time Transfer systems, Precise Time and Time Interval measuring systems, Critical Time Dissemination (CTD), NextGen Secure TWSTT, and other systems to distribute precise time.		
VERY LONG BASELINE INTERFEROMETRY SYSTEM Systems to be purchased here are antennas, radio receivers, Radio Frequency to digital conversion systems, wide band communication systems, and correlators to process wide-band data obtained at sites separated by thousands of kilometers. Very Long Baseline Interferometry data monitors variations in the Earth's orientation and form the basis for the fundamental celestial reference frame, and supports DoD and national requirements for Space Situational Awareness.		

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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		
AIRBORNE LIDAR SYSTEM The Coastal Zone Mapping and Imaging LIDAR (CZMIL) replaces the Compact Hydrographic Airborne Rapid Total Survey (CHARTS) system. CZMIL is an aircraft mounted LIDAR system used to conduct expeditionary and rapid response hydrographic surveys in near-shore areas and areas inaccessible by ship or survey launch. Routine life cycle replacement maintains technology refresh, precludes obsolescence of equipment and repair parts/maintenance, and maintains survey reliability.		
DEEP MULTIBEAM REPLACEMENT The full ocean multibeam sonar system is the primary ship-mounted ocean mapping tool used for surveys in water depths greater than 300 meters to full ocean. The deep-water multibeam system is a state-of-the-art, commercial, one-by-one degree system with a maximum swath coverage of six times water depth. The multibeam survey system includes an integrated deep water sub-bottom profiler system. The system will be installed on all T-AGS 60 class ships as a life-cycle replacement for the existing deep water multibeam system (EM121A). The deep water multibeam system (EM121A) has exceeded its life expectancy and will no longer be supported by the manufacturer. Multibeam systems collect deep-water bathymetry data required to support special chart production for the Navy. If the deep-water multibeam systems are not replaced, the T-AGS 60 ships will lose the capability to support the Navy's requirement for deep and mid-water bathymetry data products.		
SHALLOW WATER MULTIBEAM The shallow water multibeam sonar system is the primary sea-floor mapping system in the littoral (50-500 meters of water). Without this data: 1) surface and sub-surface littoral navigation charts would not be updated with accurate, high resolution bathymetry, 2) high-resolution littoral bathymetry required for running ocean (currents, waves, tides) models supporting anti-submarine warfare, naval special warfare and mine warfare applications would not be available and 3) high-resolution littoral bathymetry required for running acoustic models for anti-submarine warfare would not be available.		
SHALLOW WATER SEISMIC SYSTEM Lifecycle replacement and upgrades to seismic systems are needed to meet existing requirements for geophysical measurements in shallow to mid-depth water environments. The systems will be roll-on/roll-off systems and consist of a sub-bottom profiler for medium to deep sub-bottom measurements. These systems are designed to meet requirements for geophysical measurements to support geophysical database construction. These databases are an essential part of acoustic prediction systems and support to ASW mission planning, execution, and prosecution.		
NAVY PRECISION OPTICAL INTERFEROMETER SYSTEM The Navy Precision Optical Interferometer (NPOI) at Anderson Mesa, Arizona is operationally producing a catalog of the precision positions of stars at a level of 16 Milli-arcseconds (mas) to meet DoD requirements for Celestial Reference Frame maintenance. NASA has transferred to the Navy four 1.8 meter telescopes to be added to the NPOI array in order to extend the catalog to fainter stars of 9th magnitude and expand the size and density of the catalog. OPN systems to be procured include precise optical and electronic equipment and infrastructure equipment used to integrate the 1.8m telescopes into NPOI array.		
A2 Enterprise Virtualization GIG-Node Meteorology and Atmospheric data is a highly perishable, mission-essential element in planning for almost all operational missions performed by the United States Navy. Significant time delays in dissemination of oceanographic and meteorological products/services may add significant risk to our operational forces. This Enterprise A2 Virtualized GIG-Node will provide automatic-failover for key oceanographic and meteorological product/services in the event of a significant system/site outage.		
TASK FORCE CYBER AWAKENING USNO data architecture allows for distribution and processing of Precise Time, Astrometry, and Earth Orientation parameters across DoD. Funding is for a secure network environment equipment. This consists of switches and servers for a secure scientific network as well as switches and servers for testing of new software and products.		
Advanced Weather Interactive Processing System (AWIPS) provides an automated and efficient system capability at both Fleet Weather Centers (FWCs) and the Joint Typhoon Warning Center (JTWC). This system will leverage existing Navy and National Weather Service (NWS) modeling and forecast automation capabilities that will be compatible across government and civilian weather forecasting sectors. This system will analyze, interrogate, and display ensemble/deterministic models, satellite, observations, and automate repetitive forecaster tasks. These capabilities are necessary for the commands to support mission areas including, but that are not limited to, maritime operations, aviation operations, fleet operations, and safety of navigation.		
Precise Time and Astrometry Network (PTA Network) is the network supporting the Master Clock at the United States Naval Observatory (USNO) and the Alternate Master Clock (AMC) located in Colorado Springs, CO. The time derived from USNO, known as Coordinated Universal Time (UTC (USNO)) is the primary time reference for the Department of Defense. The network also supports USNO's determination of the Celestial Reference Frame (CRF) as well as Earth Orientation Parameters (EOP). Together, this data provides essential mission critical information for navigation, orientation, targeting and weapons guidance, tracking of space-based platforms, and identification of space objects. Task Force Cyber Awakening (TFCA) was established to comprehensively address cyber security across the entire Navy cyber platform. The USNO was funded to remediate critical cyber security vulnerabilities on USNO networks, to include the PTA Network. Funding is for equipment modernization necessary to maintain the required		

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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		
security posture and ensure the resiliency of the PTA Network, which is of strategic importance for the execution of tactical operations. The PTA Network is composed of one network unit with ground sites in Washington, D.C., Colorado Springs, CO, and Flagstaff, AZ.		
[P40A / POPS OIS]: OIS12 - Primary Oceanographic Prediction System (POPS)-Meteorology (Met) provides the key production engine enabling global METOC support of the fleet. The required technology refreshment includes enhancements of the POPS-Met hardware and software, models suite, observational data ingest capability, data distribution capability, and reach back customer support. The Oceanographic Information System (OIS) Architecture OPN funding profile is the result of an IT and non-IT re-capitalization effort led by CNMOC N8 and approved by CNMOC leadership. It has since been used as a basis for planning our IT upgrades through the FYDP.		
[P40A / NAVIFOR MILCON P-001 Precise Time and Astrometry Network (PTA Network)]: PTA79 MILCON P001 - Precise Time and Astrometry Network (PTA Network) Shore Based Enterprise Network Enhancements: P-001 Master Time Clocks & Ops Facility, Washington D.C.: Funds the outfitting of building (P-001) to allow for the installation of mission equipment for the Master Clock and Earth Orientation. Relocating USNO's mission equipment will require specialized equipment to move the clocks and correlator, a variety of new equipment racks, display monitors, and other various furnishings.		
[P40A / Unmanned Underwater Vehicle (UUV)]: Funding supports the procurement of an Unmanned Underwater Vehicle (UUV) with Edgetech Sonar. The Edgetech Sonar provides dual frequency and swath bathymetry capabilities to the warfighter. It will support fulfilling bathymetry or littoral imagery requests coming from joint or international entities. The geographic area for UUV Operations include Persian Gulf and Gulf nations, Arabian Sea, and Horn of Africa.		

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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-40a	Environmental Support Equipment	P-5a			- / 89.998	- / 19.440	- / 24.643	- / 31.900	- / 2.200	- / 34.100
P-40	Total Gross/Weapon System Cost				- / 89.998	- / 19.439	- / 24.644	- / 31.902	- / 2.200	- / 34.102
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The 8126 Line Item procures entire systems; however, the unit costs are dependent upon whether purchasing an entire brand new system or if purchasing upgrades/lifecycle replacement of equipment, software or hardware components of the systems. Installation unit costs are highly dependent on the location of the shipyard. Replacement costs vary each year depending on the requirements.										
1.3 - Digital Side Scan Sonar (SHIP) The digital side scan sonar systems are purchased as needed based on the life cycle replacement schedule for the T-AGS ships. In FY19, the USNS MARY SEARS is scheduled for a Digital Side Scan Sonar life cycle replacement. Additionally, the FY19 cost includes the procurement of spare parts due to the three year interval before the next life cycle replacement.										
1.6 - Integrated Sub-Bottom Profiler The Integrated Sub Bottom Profiler are purchased as needed based on the life cycle replacement schedule. A Sub Bottom Profiler is not scheduled to be replaced in FY 18, however is schedule to be replaced in FY19. This replacement will enhance current outdated technology in the CENTCOM yard which in turn will provide high resolution digital acoustic data with precision positioning and navigational capacity for Mine Warfare mission.										
1.8 - Master Clock These systems consist of: Rubidium (Rb) Fountain Clocks, which are advanced, non-commercial atomic clocks that are based on laser cooling and trapping of atoms; hydrogen masers; precise time measurement systems; amplifiers; and environmental conditioning systems to maintain precise temperature and humidity controls. These systems will allow for more rapid, robust and autonomous characterization of the Rubidium Fountains and Hydrogen Masers in the timing ensemble at United States Naval Observatory (USNO). Rb fountain clocks deliver the precise time and time interval required to support GPS III requirements and national assets.										
The Navy's funds to support the United States Naval Observatory's (USNO) Operation Procurement, across all Cost Elements, are used for the life-cycle replacement of aging equipment. Therefore, Navy's Observatory Command does not buy/replace the same equipment each year. While it may look like the costs are increasing, USNO is actually replacing different underlying components described in the description of each Cost Element. In each year, USNO is procuring different elements of the master clock system and the cost associated with these elements are different.										
FY18 - Replace Environmental Chambers - (\$775K - 1 unit). The Master Clock building contains eight (8) individual chambers that precisely control temperature and humidity where the atomic clocks are used operationally. Each chamber contains rubidium atoms that are laser-cooled to about the coldest temperature anything can be. The result is continued accuracy for operational needs and continuously running timepiece.										
FY19 - Funding will replace an additional Environmental Chamber for temperature and humidity control (\$775K - 1 unit) and a Master Clock Measurement System which is a replacement of multi-channel backup clock measurements system to improve clock measurement precision (\$245K - 1 unit).										

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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		
1.15 - Time Distribution System The Department's funds to support the United States Naval Observatory's (USNO) Operation Procurement, across all Cost Elements, is used for the life-cycle replacement of aging equipment. Therefore, Navy's Observatory Command does not buy/replace the same equipment each year. While it may look like the costs are increasing, USNO is actually replacing different underlying components described in the description of each Cost Element. In each year, USNO is procuring different elements of the Time Distribution System and the cost associated with these elements are different. FY18 - In FY18, USNO is procuring a new modem technology to distribute the GPS III signal. Additionally, increase of \$1M OCO is associated with the European Reassurance Initiative and will support an X-band "hop station" on the east coast of CONUS to relay Two Way Satellite Time Transfer (TWSTT) services from the Alternate Master Clock at Schriever AFB to the EUCOM AOR. This is for Cape Canaveral, where USNO already has TWSTT operations in support of local missions. This will increase the robustness of the highest level timing support into EUCOM by allowing failover to the alternate authoritative timing source for the DOD. FY19 - The growth between FY18 and FY19 supports the procurement of 1) Next Generation transceivers for time transfer (\$781K) and 2) Next Generation GPS III receivers (\$1,045K). 1.20 - Shallow Water Multibeam - Increase between FY18 and FY19, above inflation, is due to higher installation cost in CENTCOM AoR. 1.21 - Shallow Water Seismic System - The last life cycle replacement associated with the shallow water seismic system was completed in FY15. In FY19, the shallow water seismic system is scheduled to for a higher cost upgrade to meet requirements for geophysical measurements in shallow to mid-depth water environment. 1.25 - PTA Network - FY19 PTA Network funds support technical refresh which are necessary to maintain and enhance the required security of the modernized network as a result of technical obsolescence as well as critical cyber and physical vulnerabilities. Additionally FY19 funds will support application migration and modernization efforts to enhance cyber resiliency and security posture associated with precise time and earth orientation, mission critical information for navigation , orientation, targeting and weapons guidance, tracking of space-based platforms, and identification of space objects. 1.27 - MILCON P-001 - Funds required for the outfitting of a building (P-001) to house the USNO network to include planning, design, relocation, procurement, and installation of mission relation equipment. OCO: Unmanned Underwater Vehicles - FY19 OCO request is in support of the procurement of two (2) Unmanned Underwater Vehicles (UUV) with Edgetech Sonar capability. These Unmanned Underwater Vehicles (UUV) with the Edgetech 2205 sonar system provide dual frequency and swath bathymetry capabilities to the warfighter. Current older UUVs (2) are either fulfilling other mission requirements or undergoing maintenance and are outfitted with less capable 450 kHz Side Scan Sonar and have no high frequency or bathymetry capabilities. Without the Edgetech 2205 sonar system, the Department is unable to fulfill ongoing operational requests for high resolution acoustic imaging of bathymetry surveys or littoral waters that are coming from joint or international entities in support of Commander, 5th Fleet operations. A Memorandum of Agreement is in place between the Naval Meteorology and Oceanography Command and Naval Special Warfare Command to support these types of request.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8126 / Environmental Support Equipment								Aggregated Items Title: Environmental Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1) Environmental Support Equipment ⁽¹⁾																				
1.1) Acoustic Measurement System ^(†)	A		0.431	3	1.294	0.589	1	0.589	-	-	-	-	-	-	-	-	-	-	-	-
1.2) Acoustic Positioning System (USBL)	A		0.524	5	2.619	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) Digital Side Scan Sonar (SHIP) ^{(2)(†)}	A		0.714	6	4.281	0.531	1	0.531	0.350	1	0.350	0.517	1	0.517	-	-	-	0.517	1	0.517
1.4) Fleet Survey Team (FST) Integrated Survey Platform ⁽³⁾	A		0.840	2	1.680	-	-	-	0.918	1	0.918	0.870	1	0.870	-	-	-	0.870	1	0.870
1.5) HSL Mission Equipment (Installation) ^(†)	A		0.649	9	5.843	0.530	2	1.061	0.500	1	0.500	-	-	-	-	-	-	-	-	-
1.6) Integrated Sub Bottom Profiler ^{(4)(†)}	A		0.470	1	0.470	0.724	1	0.724	0.750	1	0.750	0.775	1	0.775	-	-	-	0.775	1	0.775
1.7) Long Term Ambient Noise Recording & Reporting System ⁽⁵⁾	A		0.400	1	0.400	-	-	-	-	-	-	-	-	0.000	1.500	1	1.500	1.500	1	1.500
1.8) Master Clock Systems ^{(6)(†)}	A		0.402	9	3.621	0.532	3	1.596	0.775	1	0.775	0.898	2	1.795	-	-	-	0.898	2	1.795
1.9) OIS Architecture ^(†)	A		1.678	6	10.069	0.807	1	0.807	-	-	-	-	-	-	-	-	-	-	-	-
1.10) POPS ^(†)	A		2.310	7	16.172	2.334	1	2.334	-	-	-	-	-	-	-	-	-	-	-	-
1.11) Portable Multibeam Replacement	A		0.654	4	2.617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.12) POPS-MET Enhancements ^(†)	A		3.066	6	18.393	4.605	1	4.605	-	-	-	-	-	-	-	-	-	-	-	-
1.13) POPS Enhancements	A		2.240	2	4.480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.14) Ship Moving Vessel Profiler (MVP)	A		0.610	2	1.220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.15) Time Distribution System ^{(7)(†)}	A		0.751	6	4.507	-	-	-	0.692	2	1.383	0.913	2	1.826	-	-	-	0.913	2	1.826
1.16) Very Long Baseline Interferometry ^{(8)(†)}	A		0.671	4	2.685	0.298	1	0.298	1.126	1	1.126	1.745	1	1.745	-	-	-	1.745	1	1.745

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8126 / Environmental Support Equipment								Aggregated Items Title: Environmental Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1.17) Airborne Lidar System ^{(9)(t)}	A		-	-	-	-	-	-	-	-	-	1.352	1	1.352	-	-	-	1.352	1	1.352
1.18) Deep Multibeam Replacement ^{(10)(t)}	A		-	-	-	3.726	1	3.726	4.457	1	4.457	4.505	1	4.505	-	-	-	4.505	1	4.505
1.19) Near Real-Time Profiling Arrays	A		0.834	1	0.834	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.20) Shallow Water Multibeam ^{(11)(t)}	A		-	-	-	1.014	1	1.014	1.134	1	1.134	1.171	1	1.171	-	-	-	1.171	1	1.171
1.21) Shallow Water Seismic System ⁽¹²⁾	A		0.368	2	0.736	-	-	-	-	-	-	0.593	1	0.593	-	-	-	0.593	1	0.593
1.22) Navy Precision Optical Interferometer ^(t)	A		0.780	1	0.780	1.300	1	1.300	0.959	1	0.959	-	-	-	-	-	-	-	-	-
1.23) Task Force Cyber Awakening (TFCA) - U.S. Naval Observatory	A		6.068	1	6.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.24) Advanced Weather Interactive Processing System (AWIPS)	A		1.229	1	1.229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25) Precise Time and Astrometry Network (PTA Network) ^{(13)(t)}	A		-	-	-	0.855	1	0.855	2.010	1	2.010	7.175	1	7.175	-	-	-	7.175	1	7.175
1.26) POPS OIS ⁽¹⁴⁾	A		-	-	-	-	-	-	-	-	9.511	-	-	9.576	-	-	-	-	-	9.576
1.27) NAVIFOR MILCON P-001 Precise Time and Astrometry Network (PTA Network) ^(t)	A		-	-	-	-	-	-	-	-	-	0.000	1	0.000	-	-	-	0.000	1	0.000
1.29) Unmanned Underwater Vehicle (UUV) ^(t)	A		-	-	-	-	-	-	-	-	-	-	-	0.000	0.350	2	0.700	0.350	2	0.700
1.30) SUS CONTAINER {60} ^(t)	A		-	-	-	-	-	-	0.370	1	0.370	-	-	-	-	-	-	-	-	-
1.31) SSBN Support {60} ^(t)	A		-	-	-	-	-	-	0.400	1	0.400	-	-	-	-	-	-	-	-	-
Subtotal: 1) Environmental Support Equipment			-	-	89.998	-	-	19.440	-	-	24.643	-	-	31.900	-	-	2.200	-	-	34.100
Total			-	-	89.998	-	-	19.440	-	-	24.643	-	-	31.900	-	-	2.200	-	-	34.100
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
^(t) indicates the presence of a P-5a																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8126 / Environmental Support Equipment	Aggregated Items Title: Environmental Support Equipment
Footnotes: (1) Variation in costs are due to the fact that the Naval Information Force (NAVIFOR) OPN Line Items are for entire systems; however, the unit costs are dependent upon whether purchasing an entire brand new system or if purchasing upgrades/lifecycle replacement of software and hardware components of the systems. Installation unit costs are highly dependent on the location of the shipyard. (2) The digital side scan sonar systems are purchased as needed based on the life cycle replacement schedule for the T-AGS ships. In FY19, the USNS MARY SEARS is scheduled for a Digital Side Scan Sonar life cycle replacement. The FY19 procurement includes spare parts as a result of the three year interval before the next life cycle replacement, therefore unit cost in FY19 is higher when compared to the FY18 procurement which did not include spare parts. (3) FY19 request of \$870K is for one boat. (4) The Integrated Sub Bottom Profiler is purchased as needed based on the life cycle replacement schedule. This replacement will enhance current outdated technology in the CENTCOM yard which in turn will provide high resolution digital acoustic data with precision positioning and navigational capacity for Mine Warfare mission. (5) FY19 funds procure and deploy sensors to increase collection and modeling requirements for ambient noise and acoustic signatures. Increase will provide Theater Commanders with enhanced capability to assess physical battlespace and leverage the environment. (6) The Navy's funds to support the United States Naval Observatory's (USNO) Operation Procurement, across all Cost Elements, is used for the life-cycle replacement of aging equipment. Therefore, USNO does not buy/replace the same equipment each year. While it may look like the costs are increasing, USNO is actually replacing different underlying components described in the description of each Cost Element description in the P-40. In each year, USNO is procuring different elements of the master clock system and the cost associated with these elements varies. FY18 Replace Environmental Chambers - (\$775K for 1 unit). The Master Clock building contains eight (8) individual chambers that precisely control temperature and humidity where the atomic clocks are used operationally. Each chamber contains rubidium atoms that are laser-cooled to about the coldest temperature anything can be. The result is continued accuracy for operational needs and continuously running timepiece. FY19 - The growth between FY18 to FY19 supports the procurement of another Life Cycle replacement of clock environmental chambers for temperature and humidity control (\$775K for 1 unit) and a Master Clock Measurement System which is a replacement of multi-channel backup clock measurements system to improve clock measurement precision (\$245K for 1 unit). (7) The Navy's funds to support the USNO Operation Procurement, across all Cost Elements, is used for the life-cycle replacement of aging equipment. Therefore, Navy's Observatory Command does not buy/replace the same equipment each year. While it may look like the costs are increasing, USNO is actually replacing different underlying components described in the description of each Cost Element description. In each year, USNO is procuring different elements of the Time Distribution System and the cost associated with these elements are different. FY18 - In FY18, USNO is procuring a new modem technology to distribute the GPS III signal. Additionally, increase of \$1M OCO is associated with the European Reassurance Initiative and will support an X-band "hop station" on the east coast of CONUS to relay Two Way Satellite Time Transfer (TWSTT) services from the Alternate Master Clock at Schriever AFB to the EUCOM AOR. This is for Cape Canaveral, where USNO already has TWSTT operations in support of local missions. This will increase the robustness of the highest level timing support into EUCOM by allowing failover to the alternate authoritative timing source for the DOD. FY19 - The growth between FY18 and FY19 supports the procurement of 1) Next Generation transceivers for time transfer (\$781K) and 2) Next Generation GPS III receivers (\$1,045K). (8) The vast majority of USNO's OPN funding, across all Cost Elements, is used for the life-cycle replacement of aging equipment. Therefore, USNO does not typically buy/replace the same equipment each year. While it may look like the costs are increasing, USNO is actually replacing different underlying components described in the description of each Cost Element description. FY17 - USNO is scheduled to replace the HVAC which supports our VLBI Software Correlator with a current estimate \$.300M. FY18 - USNO is scheduled to replace the VLBI Software Correlator itself with a unit cost of \$1.2M. FY19 - USNO is scheduled to replace the Frequency Counter with a unit cost of \$1.745M (9) The Coastal Zone Mapping and Imaging LIDAR (CZMIL) replaces the Compact Hydrographic Airborne Rapid Total Survey (CHARTS) system. CZMIL is an aircraft mounted LIDAR system used to conduct expeditionary and rapid response hydrographic surveys in near-shore areas and areas inaccessible by ship or survey launch. Routine life cycle replacement maintains technology refresh, precludes obsolescence of equipment and repair parts/maintenance, and maintains survey reliability. (10) The cost of equipment associated with the Deep Water Multi-beam replacement fluctuates from year to year depending on the vessel being upgraded. There are six T-AGS Oceanographic Ships deployed at any given time year round. The unit costs are dependent upon many factors such as whether we are purchasing an entirely new system, upgrades/lifecycle replacement of equipment, software or hardware components of the systems, etc. Install cost is also dependent on when and where the equipment is to be installed (CONUS or OCONUS). FY18 cost reflects new system procurement, while, FY18 supports upgrades/lifecycle replacement of equipment. FY18 and FY19 cost reflects new system procurement. (11) Net increase between FY18 and FY19, above inflation, is due to higher installation cost in CENTCOM AoR. Additionally, FY 2019 funding request was reduced by \$.075 million to account for the availability of prior year execution balances. (12) The last life cycle replacement associated with the shallow water seismic system was completed in FY15. In FY19, the shallow water seismic system is scheduled to be upgraded to meet requirements for geophysical measurements in shallow to mid-depth water environment. (13) PTA79 - Precise Time and Astrometry Network (PTA Network) quantity is composed of one network unit with three ground sites (Washington, D.C.; Colorado Springs, CO; and Flagstaff, AZ) undergoing recurring technical refreshes. FY19 PTA Network funds will continue to support technical refresh which are necessary to maintain and enhance the required security of the modernized network as a result of technical obsolescence as well as critical cyber and physical vulnerabilities. Additionally FY19 funds will support application migration and modernization efforts to enhance cyber resiliency and security posture associated with precise time and earth orientation, mission critical information for navigation , orientation, targeting and weapons guidance, tracking of space-based platforms, and identification of space objects. (14) In keeping with DoD and POPS guidelines, the OPN budget for lifecycle replacement due to equipment obsolescence, End-of-Life/End-of-Support (EoL/EoS) issues, and new technology insertion, was planned assuming a 3-4 year replacement cycle, with 25-30% of the system components replaced each year without increasing the server footprint. Replacing the EoL/EoS POPS-Met system components with High Performance Computing (HPC) technology, data storage requirements, and the high-speed network connections between the computing and storage components is both complicated and expensive. New generations of HPC equipment and infrastructure components are required to meet the expanding FLENUMMETOCCN mission and cyber security requirements. In accordance with the POPS-Met System Integration Master Plan (SIMP), the storage, networking, and compute nodes/memory are replaced on a four year cycle.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8126 / Environmental Support Equipment					Aggregated Items: Environmental Support Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Environmental Support Equipment												
1.1) Acoustic Measurement System		2017	KONGSBERG / Lynnwood, WA	C / TBD	** NO PCO **	Nov 2017	Mar 2018	1	0.589	N		
1.3) Digital Side Scan Sonar (SHIP) (2)		2017	Klein / Edge Tech / UNKNOWN	C / TBD	Stennis Space Center, MS	Jul 2017	Nov 2017	1	0.531	Y		
1.3) Digital Side Scan Sonar (SHIP) (2)		2018	Klein / Edge Tech / UNKNOWN	C / TBD	Stennis Space Center, MS	Jul 2018	Nov 2018	1	0.350	N		
1.3) Digital Side Scan Sonar (SHIP) (2)		2019	Klein / Edge Tech / UNKNOWN	C / TBD	Stennis Space Center, MS	Jul 2019	Nov 2019	1	0.517	Y		
1.5) HSL Mission Equipment (Installation)		2017	Kongsberg, Reson & Applanix / UNKNOWN	C / FP	SPAWAR	Mar 2017	Jul 2017	2	0.530	Y		
1.5) HSL Mission Equipment (Installation)		2018	Kongsberg, Reson & Applanix / UNKNOWN	C / TBD	SPAWAR	Mar 2018	Jul 2018	1	0.500	N		
1.6) Integrated Sub Bottom Profiler (4)		2017	Kongsberg / Lynnwood, WA	C / FP	NAVO/NAVSUP	Feb 2017	Jun 2017	1	0.724	Y		
1.6) Integrated Sub Bottom Profiler (4)		2018	Kongsberg / Lynnwood, WA	C / TBD	TBD	Feb 2018	Jun 2018	1	0.750	N		
1.6) Integrated Sub Bottom Profiler (4)		2019	Kongsberg / Lynnwood, WA	C / TBD	TBD	Feb 2019	Jun 2019	1	0.775	N		
1.8) Master Clock Systems ⁽⁶⁾		2017	FLC / Philadelphia	C / FP	FISC	Feb 2017	May 2017	3	0.532	Y		
1.8) Master Clock Systems ⁽⁶⁾		2018	FLC / Philadelphia	TBD	TBD	Feb 2018	May 2018	1	0.775	Y		
1.8) Master Clock Systems ⁽⁶⁾		2019	FLC / Philadelphia	C / TBD	TBD	Feb 2019	May 2019	2	0.898	N		
1.9) OIS Architecture		2017	EMA-Charleston / SAIC / Newport, RI	C / FP	SPAWAR	Aug 2017	Nov 2017	1	0.807	N	Jan 2017	
1.10) POPS		2017	Naval Oceanographic Office / Stennis Space Center, MS	C / FP	Stennis Space Center, MS	Jul 2017	Jan 2018	1	2.334	N	Oct 2017	
1.12) POPS-MET Enhancements		2017	SSC PAC / San Diego, CA	C / FP	SSC-PAC	Jul 2017	Feb 2018	1	4.605	Y		
1.15) Time Distribution System ⁽⁷⁾		2018	FISC / FISC	C / FP	FISC	Oct 2017	Oct 2017	1	0.383	Y		
1.15) Time Distribution System ⁽⁷⁾	✓	2018	FISC / FISC	C / TBD	** NO PCO **	Oct 2017	Oct 2017	1	1.000	N		
1.16) Very Long Baseline Interferometry ⁽⁸⁾		2017	FISC / FISC	C / TBD	FISCf	Aug 2017	Oct 2017	1	0.298	Y		
1.16) Very Long Baseline Interferometry ⁽⁸⁾		2018	FISC / FISC	C / TBD	TBD	Aug 2018	Oct 2018	1	1.126	Y		
1.16) Very Long Baseline Interferometry ⁽⁸⁾		2019	FISC / FISC	C / TBD	** NO PCO **	Oct 2018	Oct 2018	1	1.745	N		
1.17) Airborne Lidar System ⁽⁹⁾		2019	Corp of Engineers / Arlington, VA	C / FP	** NO PCO **	Mar 2019	Mar 2019	1	1.352	N	Jun 2019	

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8126 / Environmental Support Equipment					Aggregated Items: Environmental Support Equipment				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.18) Deep Multibeam Replacement ⁽¹⁰⁾		2017	Kongsberg / Lynnwood, WA	C / FP	NAVO/NAVSUP	Aug 2017	Jan 2018	1	3.726	Y		
1.18) Deep Multibeam Replacement ⁽¹⁰⁾		2018	Kongsberg / Lynnwood, WA	C / FP	TBD	Aug 2018	Jan 2019	1	4.457	Y		
1.18) Deep Multibeam Replacement ⁽¹⁰⁾		2019	Kongsberg / Lynnwood, WA	C / TBD	TBD	Aug 2019	Jan 2020	1	4.505	N		
1.20) Shallow Water Multibeam ⁽¹¹⁾		2017	Kongsberg / Lynnwood, WA	C / FP	NAVO/NAVSUP	Aug 2017	Jan 2018	1	1.014	Y		
1.20) Shallow Water Multibeam ⁽¹¹⁾		2018	Kongsberg / Lynnwood, WA	C / FP	TBD	Aug 2018	Jan 2019	1	1.134	Y		
1.20) Shallow Water Multibeam ⁽¹¹⁾		2019	Kongsberg / Lynnwood, WA	C / TBD	TBD	Aug 2019	Jan 2020	1	1.171	N		
1.22) Navy Precision Optical Interferometer		2017	Lowell Observatory / Anderson Mesa, AZ	C / FP	FLC-Philadelphia	Jul 2017	Nov 2017	1	1.300	N	Jul 2017	
1.22) Navy Precision Optical Interferometer		2018	Lowell Observatory / Anderson Mesa, AZ	C / FP	FLC-Philadelphia	Jul 2018	Nov 2018	1	0.959	Y		
1.25) Precise Time and Astrometry Network (PTA Network) ⁽¹³⁾		2017	SSC LANT / Charleston, SC	C / CPIF	SSC-LANT	Oct 2016	Oct 2016	1	0.855	N	Oct 2016	
1.25) Precise Time and Astrometry Network (PTA Network) ⁽¹³⁾		2018	SSC LANT / Charleston, SC	WR	SSC-LANT	Nov 2017	Jan 2018	1	2.010	Y		
1.25) Precise Time and Astrometry Network (PTA Network) ⁽¹³⁾		2019	SSC LANT / Charleston, SC	WR	SSC-LANT	Nov 2018	Jan 2019	1	7.175	Y		
1.27) NAVIFOR MILCON P-001 Precise Time and Astrometry Network (PTA Network)		2019	FLC / FLC Philadelphia	C / TBD	** NO PCO **	Oct 2018	Oct 2018	1	0.000	N	Oct 2019	
1.29) Unmanned Underwater Vehicle (UUV)	✓	2019	TBD / TBD	C / TBD	** NO PCO **	Feb 2019	Feb 2019	2	0.350	N	Feb 2019	
1.30) SUS CONTAINER {60}		2018	TBD / TBD	TBD	** NO PCO **	May 2018	Jul 2018	1	0.370	N		
1.31) SSBN Support {60}		2018	TBD / TBD	C / TBD	** NO PCO **	Oct 2017	Oct 2017	1	0.400	N		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8128 / Physical Security 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: 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>)	999.449	109.825	120.972	175.436	19.389	194.825	149.524	122.174	113.168	109.322	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	999.449	109.825	120.972	175.436	19.389	194.825	149.524	122.174	113.168	109.322	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	999.449	109.825	120.972	175.436	19.389	194.825	149.524	122.174	113.168	109.322	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>)	-	0.309	0.119	-	-	-	-	-	-	-	-	0.428
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 \$2.628 million to account for the availability of prior year execution balances. This line item procures equipment to support the security and safety for the Department's assets worldwide. [P40A / MOBILE SECURITY FORCES - NCW ACTIVE COMPONENT]: Active and Reserve Component of the Coastal Riverine Force (CRF) (formerly Naval Coastal Warfare (NCW), Mobile Security Force (MSF), Maritime Expeditionary Security Force (MESF) and Riverine Force). CRF provides seaward surveillance and security forces in amphibious objective areas, harbors and approaches, straits, anchorages, offshore economic assets and other military areas worldwide. CRF fills current warfighting gaps by providing highly trained scalable and sustainable Security Teams capable of defending mission critical assets in the near coast environment. CRF units provide Ground Defense, Afloat Defense, Airfield/Aircraft Security and a wide range of secondary tasks from Detention Operations to Law Enforcement. Funding will provide prioritized initial outfitting for newly established TOA requirements and procurement of centrally managed equipment to meet Required Operational Capabilities/Program Operational Environment (ROC/POE) and Navy Mission Essential Tasks (NMET) including Visual Augmentation Systems (VAS) and Navy Non-Lethal Effects items. [P40A / NAVAL COASTAL WARFARE FORCES-RES COMP (SEC FOR)]: Active and Reserve Component of the Coastal Riverine Force (CRF) (formerly Naval Coastal Warfare (NCW), Mobile Security Force (MSF), Maritime Expeditionary Security Force (MESF) and Riverine Force). CRF provides seaward surveillance and security forces in amphibious objective areas, harbors and approaches, straits, anchorages, offshore economic assets and other military areas worldwide. CRF fills current warfighting gaps by providing highly trained scalable and sustainable Security Teams capable of defending mission critical assets in the near coast environment. CRF units provide Ground Defense, Afloat Defense, Airfield/Aircraft Security and a wide range of secondary tasks from Detention Operations to Law Enforcement. Funding will provide prioritized initial outfitting for newly established TOA requirements and procurement of centrally managed equipment to meet Required Operational Capabilities/Program Operational Environment (ROC/POE) and Navy Mission Essential Tasks (NMET) including Visual Augmentation Systems (VAS) and Navy Non-Lethal Effects items. [P40A / SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)]: (X7001) SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS) This category provides for the security equipment required to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facility, Atlantic (SWFLANT) in Kings Bay, GA and the Strategic Weapons Facility, Pacific (SWFPAC) in Bangor, WA. Funding supports the Limited Area Electronic Security Systems (ESS) refreshes, the Transit Protection System, Vehicle Barriers, the Command, Control, Communication, Computers, and Intelligence (C4I) system that provides security system, communication network, computers, security force command and control function as well as the Water Detection System and other equipment necessary to meet Nuclear Security requirements per DOD S-5210.41M (Nuclear Weapons Security Manual).												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8128 / Physical Security 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: N/A		
[P40A / ANTI-TERRORISM/FORCE PROTECTION AFLOAT PHYSICAL SECURITY EQUIPMENT (ATFP PSE)]: Anti-terrorism/Force Protection (AT/FP) Physical Security Equipment (PSE) and Vessel Boarding Search and Seizure (VBSS) material are a compilation of specific security and AT related items intended for use by Ship's company aligned with Chief of Naval Operations (CNO's) objective for operation watch standers at pier side and perimeter posts. AT/FP PSE material is used to assist shipboard security forces in thwarting potential terrorist attacks and forms the base of security for shipboard personnel. VBSS PSE material enables surface forces to reach full MIO capability including interception, boarding, searching, diverting and /or seizing suspect vessels.		
[P40A / BIOMETRICS]: Introduces biometrics capabilities for surface ships during Visit, Board, Search and Seizure (VBSS) Enhanced Maritime Interception Operations (EMIO) by providing a new Maritime Domain Awareness (MDA) capability to download fused terrorism intelligence to Counter Terrorism Centers, Terrorism Screening Centers and other Intelligence Community databases to support a common intelligence picture in a Naval/Joint/Coalition operational environment. Funding will provide Navy developed Identity Dominance Systems (IDS), which will provide required biometrics capability to the Fleet. The Program of Record achieved Milestone C in October 2012, Full Rate Production in June 2013, Full Operational Capability in December 2016, and will be procuring additional systems to meet Fleet needs. The IDS Capability Production Document requires a Technology Refresh every five years, and procurement of new systems will begin in FY19, to satisfy this requirement.		
[P40A / ENHANCED MARITIME INTERCEPTION OPERATIONS (EMIO)]: In response to JCS tasking, implemented Level II MIO Initial Operational Capability May 2005. The new MIO capability expands the operational spectrum for the Navy Overseas Contingency Operations ranging from compliant only to non-compliant boarding of threat vessels. MIO teams will be trained on new equipment, which will allow them to board vessels that refuse to comply with orders to stop and be searched. Funding will provide Allowance Equipage List (AEL) items such as individual protective equipment and training weapons.		
[P40A / NAVY EXPEDITIONARY LOGISTICS SUPPORT GROUP]: Navy Expeditionary Logistics Support Group will deliver worldwide expeditionary logistics with active and reserve personnel to conduct port and air cargo handling missions, customs inspections, contingency contracting capabilities, fuels distribution, freight terminal and warehouse operations, postal services, and ordnance reporting and handling. Funding will provide prioritized initial outfitting for newly established TOA requirements and procurement of centrally managed mission equipment to meet Required Operational Capabilities/Program Operational Environment (ROC/POE) and Navy Mission Essential Tasks (NMET) to include Visual Augmentation Systems (VAS).		
[P40A / MOBILE DIVING SALVAGE UNIT (MDSU) OUTFITTING EQUIPMENT]: Provides prioritized initial outfitting for newly established Mobile Diving and Salvage Unit Table of Allowances (TOA) requirements and procurement of centrally managed diving and salvage systems. MDSU TOA equipment includes diving, salvage and Combat Support Equipment to meet Required Operational Capabilities/Program Operational Environment (ROC/POE) and Navy Mission Essential Tasks (NMET) to include Visual Augmentation Systems (VAS).		
[P40A / NAVAL SPECIAL WARFARE]: Naval Special Warfare (NSW) service-common funding provides mission critical equipment to US Navy SEAL combat operations in forward deployed contingency locations. These investments include but are not limited to, weapon laser range finders, optics and illuminators. In addition funding supports EO/IR sensors and SEAL night vision goggles. This materiel supports NSW core mission requirements and is essential to the readiness and battlefield effectiveness of NSW in winning the current fight against ISIS and other extremist elements.		
[P40A / ANTI-TERRORISM FORCE PROTECTION ASHORE]: This program provides centrally procured equipment to improve the physical security posture of Navy installations worldwide. The program applies the Commander Navy Installations Command (CNIC) Risk-based investment strategy, ensuring appropriate Anti-terrorism and Force Protection (ATFP) solutions are fielded. The Physical Security Equipment (PSE) program procures equipment that supports and improves 15 specific Navy capabilities to detect, defer and defeat terrorist and criminal activity targeted against Navy personnel, government property and facilities ashore/afloat. The program provides funds to procure equipment for Navy Military Construction (MILCON) projects, including Intrusion Detection System(s) (IDS) and other Electronic Security System(s) (ESS) before building occupancy. The funds support the following six categories: Electronic Harbor Security Systems (EHSS) and Barriers; Physical Security/Access Control (Gates Automation & Perimeter Security); MILCON IDS; Command, Control, Computer, Communications & Intelligence (C4I) and Other Physical Security Equipment (PSE).		
[P40A / COUNTERING SMALL UNMANNED AERIAL SYSTEMS]: COUNTER UAS TECHNOLOGY A Counter Unmanned Aircraft Systems (C-UAS) solution is a precision system designed to protect high value assets and support public safety against threats posed by the inadvertent or unlawful misuse of unmanned aircraft systems (UAS). Identified solutions will reduce the risk posed by UAS threats and be widely applicable to protecting Naval critical infrastructure, installations, and Navy assets identified as Covered Facilities/Covered Assets as defined by the Secretary of Defense Policy and NDAA 18. This funding is required to procure hardware, perform site engineering studies, provide system design, conduct supporting site modifications, deploy and install the system, and provide operator training, to include Tier 1 maintenance. Additional information is available at a higher classification level.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8128 / Physical Security 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: N/A		
[P40A / VACIS]: Ports of Jebel Ali and Fujairah lack capability to screen cargo for explosives or contraband, an identified Force Protection vulnerability. The Vehicle and Contraband Inspection Systems (VACIS) GT is a rugged, highly mobile scanning system. Capable of detecting explosives and illegal contraband in vehicles and cargo containers. Typically used to scan large commercial vehicles during entry control point operations by combat forces in austere environments. [P40A / ZBV Military Trailer]: 2 x ZBV Military Trailer - ZBV-MIL-TRAILER-01 (Z Backscatter Van Military Mobile Trailer) gamma ray imager. Capable of detecting explosives and illegal contraband in vehicles and cargo containers. Typically used to scan large commercial vehicles during entry control point operations by combat forces in austere environments.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8128 / Physical Security 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: 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-40a	Physical Security Equipment	P-5a			- / 999.449	- / 109.825	- / 120.972	- / 175.436	- / 19.389	- / 194.825
P-40	Total Gross/Weapon System Cost				- / 999.449	- / 109.825	- / 120.972	- / 175.436	- / 19.389	- / 194.825
*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: Mobile Security Force-Active Increase for procurement of Hailing Acoustic Laser and Light Tactical System (HALLTS) and Long Range Ocular Interrupter (LROI) as part of Navy Non-Lethal Effects (NNLE) equipment for Coastal Riverine Forces (CRF) and procurement of the Visual Augmentation Module Portable Imager Recorder (VAMPIR) for Embarked Security and Intelligence Teams (ESIT). SSBN Waterfront Restricted Area Security (WRAS) FY19 funding continues to support the Nuclear Weapons Security program providing security equipment required to guard and protect the TRIDENT II D5 missile. FY19 efforts include a refresh of the Waterside Security System to deal with obsolescence, infrastructure deficiencies and equipment shortfalls, the procurement of Harbor Security Boats to be located at Strategic Weapons Facility Atlantic (SWFLANT), Kings Bay, Georgia and Strategic Weapons Facility Pacific (SWFPAC), Bangor, Washington and the installation of the Common Limited Area Electronic Security System (ESS) at the Limited Area Production and Storage Complex (LAPSC) at SWFPAC. Biometrics The Identity Dominance System (IDS) Capability Production Document requires a Technology Refresh every five years. FY18 (\$940K) funding supports procurement of three (3) biometrics collection hardware kits to support development of the Identity Dominance System (IDS) technology refresh equipment. Increase in FY19 Support the procurement of 175 Identity Dominance System (IDS) kits as part of the planned technology refresh required, to be in compliant with applicable DoD's requirements for cyber-security & Windows 10 upgrade. FY19 is the first year of a planned two-year procurement profile to support technology refresh for the total IDS program requirement. Navy Expeditionary Logistics Support Group (NAVELSG) FY18 funds twenty six AN/PVS-15 (night vision binoculars) with Wide Field of View (WFOV) goggle system. The Increase in FY19 is to continue efforts to update twenty seven AN/PVS-15 (night vision binoculars) with Wide Field of View (WFOV) goggle system; additionally, in FY19 the program will procure eight M2 Weapon Sight (M2WS) at a cost of \$35K per unit. Naval Special Warfare Increase supports approved End Strength Growth in order to meet Geographic Combatant Commanders (GCC) demands to support existing counter-terrorist, counter violent extremist organization, and Building Partner Capacity missions and operations. Disaggregated nature of current operations has SEAL elements deployed across the GCCs conducting combat or combat advise operations in austere environments with little-to-no established DoD infrastructure. These investments include but are not limited to the procurement of visual augmentation support items to include; small arms optics, night vision goggles, laser range finders, and illuminators. This materiel supports NSW core mission requirements and is essential to the readiness and battlefield effectiveness of NSW in winning the current fight against ISIS and other extremist elements. COUNTER UAS TECHNOLOGY FY19 increase is required to continue procurement and installation of systems at the next seven highest priority Navy installations (JEON ST008 and JUON CC0558); these systems are designed to counter the threat of unauthorized overflying of Unmanned Aircraft Systems (UAS). FY18 funds support the installation at one Navy Installation. More details are available at a higher classification level.										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8128 / Physical Security 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: N/A		
Anti-Terrorism Force Protection Ashore Increase due to the automation of Access Control Turnstiles and Active Barriers that are at the end of life. Many of these turnstiles and barriers were installed soon after Sep 11, 2001, are at the end of their life or outdated and need to be replaced to properly protect installations. FY 2019 C4I funding will provide for: Regional Dispatch Center (\$12.1M): Provides Regionalized/Consolidated emergency call receipt, alarm monitoring, and 1st responder dispatching, Utilize centrally-hosted and supported Computer Aided Dispatch, Mobile Data Computers, Records Management Systems, Geographic Information System (GIS), Enterprise Land Mobile Radio (ELMR), and Alarm Automation to optimize emergency communication and response times. Giant Voice / Indoor Voice (\$10.0M): Provides Voice Alerts and Notifications during Emergency Events affecting an installation. Navy Munitions Alarm System (\$3.7M): Equipment and components for Conventional Arms, Ammunitions & Explosives (AA&E) systems supporting Category I/II munitions. The FY 2019 funding request was reduced by \$1.156 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: OCO: Mobile Security Force-Active - \$4.1M OCO request NECC has identified Visual Augmentation Systems (VAS) capability gaps encountered during missions in combat zones while in theater which are causing degradation of mission effectiveness. Funding will provide the warfighter the ability to achieve and maintain situational awareness in extreme low-light and no light environments while performing combat operations. VAS is necessary to avoid incidental engagement of non-combatants while maintaining the greatest possible distance from threats. Funding provides the warfighter the necessary VAS equipment to maintain battle dominance and avoid risk of fratricide. OCO request will procure 100 Visual Augmentation Module Portable Imager Recorder (VAMPIR) for Embarked Security and Intelligence Teams (ESIT). OCO: AT/FP Physical Security Equipment - \$15.289M OCO request OCO request will procure 4,869 body armor systems (\$486 per unit), 4,869 combat helmets (\$439 each), 2,391 radios (\$3,900 each) and 98 explosive detection systems (\$14,900 each) for Amphibious, Mine Countermeasures and submarine platforms. Reset of AFTP equipment with accelerated wear and tear due to increased OPTEMPO and THREATCON/FPCON requirements associated with CENTCOM AOR deployments.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2									P-1 Line Item Number / Title: 8128 / Physical Security Equipment							Aggregated Items Title: Physical Security Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
1) MOBILE SECURITY FORCES - NCW ACTIVE COMPONENT																					
1.1) MOBILE SECURITY FORCE ACTIVE COMPONENT	A		-	-	60.230	-	-	7.503	-	-	23.709	-	-	11.516	-	-	4.100	-	-	15.616	
Subtotal: 1) MOBILE SECURITY FORCES - NCW ACTIVE COMPONENT			-	-	60.230	-	-	7.503	-	-	23.709	-	-	11.516	-	-	4.100	-	-	15.616	
2) NAVAL COASTAL WARFARE FORCES-RES COMP (SEC FOR)																					
2.1) MOBILE SECURITY FORCE RESERVE COMPONENT	A		-	-	14.835	-	-	3.676	-	-	5.317	-	-	2.350	-	-	-	-	-	2.350	
Subtotal: 2) NAVAL COASTAL WARFARE FORCES-RES COMP (SEC FOR)			-	-	14.835	-	-	3.676	-	-	5.317	-	-	2.350	-	-	-	-	-	2.350	
3) SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)																					
3.1) SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)	A		-	-	387.048	-	-	37.553	-	-	28.250	-	-	28.612	-	-	-	-	-	28.612	
Subtotal: 3) SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)			-	-	387.048	-	-	37.553	-	-	28.250	-	-	28.612	-	-	-	-	-	28.612	
4) ANTI-TERRORISM/FORCE PROTECTION AFLOAT PHYSICAL SECURITY EQUIPMENT (ATFP PSE)																					
4.1) ATFP PHYSICAL SECURITY EQUIPMENT (PSE)	A		-	-	23.045	-	-	2.837	-	-	3.106	-	-	2.949	-	-	15.289	-	-	18.238	
Subtotal: 4) ANTI-TERRORISM/FORCE PROTECTION AFLOAT PHYSICAL SECURITY EQUIPMENT (ATFP PSE)			-	-	23.045	-	-	2.837	-	-	3.106	-	-	2.949	-	-	15.289	-	-	18.238	
5) BIOMETRICS ⁽¹⁾																					
5.1) BIOMETRICS	A		-	-	16.465	-	-	0.394	-	-	0.940	-	-	2.883	-	-	-	-	-	2.883	
Subtotal: 5) BIOMETRICS			-	-	16.465	-	-	0.394	-	-	0.940	-	-	2.883	-	-	-	-	-	2.883	
6) ENHANCED MARITIME INTERCEPTION OPERATIONS (EMIO)																					
6.1) ENHANCED MARITIME INTERCEPTION OPERATIONS (EMIO)	A		-	-	37.367	-	-	3.649	-	-	3.939	-	-	1.173	-	-	-	-	-	1.173	
Subtotal: 6) ENHANCED MARITIME INTERCEPTION OPERATIONS (EMIO)			-	-	37.367	-	-	3.649	-	-	3.939	-	-	1.173	-	-	-	-	-	1.173	
7) NAVY EXPEDITIONARY LOGISTICS SUPPORT GROUP																					

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2									P-1 Line Item Number / Title: 8128 / Physical Security Equipment						Aggregated Items Title: Physical Security Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
7.1) NAVY EXPEDITIONARY LOGISTICS SUPPORT GROUP	A		-	-	11.147	-	-	0.881	-	-	0.263	-	-	0.550	-	-	-	-	-	0.550
Subtotal: 7) NAVY EXPEDITIONARY LOGISTICS SUPPORT GROUP			-	-	11.147	-	-	0.881	-	-	0.263	-	-	0.550	-	-	-	-	-	0.550
8) MOBILE DIVING SALVAGE UNIT (MDSU) OUTFITTING EQUIPMENT																				
8.1) MOBILE DIVING AND SALVAGE UNIT OUTFITTING EQUIPMENT	A		-	-	7.227	-	-	2.889	-	-	0.324	-	-	0.467	-	-	-	-	-	0.467
Subtotal: 8) MOBILE DIVING SALVAGE UNIT (MDSU) OUTFITTING EQUIPMENT			-	-	7.227	-	-	2.889	-	-	0.324	-	-	0.467	-	-	-	-	-	0.467
9) NAVAL SPECIAL WARFARE																				
9.1) NAVAL SPECIAL WARFARE FORCES (2)	A		-	-	29.464	-	-	3.222	-	-	4.302	-	-	8.072	-	-	-	-	-	8.072
Subtotal: 9) NAVAL SPECIAL WARFARE			-	-	29.464	-	-	3.222	-	-	4.302	-	-	8.072	-	-	-	-	-	8.072
10) ANTI-TERRORISM FORCE PROTECTION ASHORE																				
10.1) ELECTRONIC HARBOR SECURITY SYSTEMS (EHSS)/ BARRIERS	A		-	-	59.923	-	-	3.084	-	-	4.696	-	-	3.209	-	-	-	-	-	3.209
10.2) PHYSICAL SECURITY/ACCESS CONTROL - GATES AUTOMATION	A		-	-	102.660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10.3) PHYSICAL SECUIRTY/ACCESS CONTROL - AUTOMATED TURNSTILES/ ACTIVE BARRIERS	A		-	-	-	-	-	-	-	-	-	-	-	6.194	-	-	-	-	-	6.194
10.4) MILITARY CONSTRUCTION INTRUSION DETECTION SYSTEMS (MILCON IDS)	A		-	-	83.263	-	-	9.763	-	-	9.923	-	-	9.906	-	-	-	-	-	9.906
10.5) COMMAND, CONTROL, COMPUTER, COMMUNICATIONS AND INTELLIGENCE (C4I)	A		-	-	146.238	-	-	22.249	-	-	26.203	-	-	26.156	-	-	-	-	-	26.156

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8128 / Physical Security Equipment						Aggregated Items Title: Physical Security Equipment								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
10.6) AEGIS ASHORE	A		-	-	9.000	-	-	2.228	-	-	-	-	-	-	-	-	-	-	-	-
10.7) COUNTERING SMALL UNMANNED AERIAL SYSTEMS ⁽³⁾	A		-	-	-	-	-	-	-	-	-	-	-	71.399	-	-	-	-	-	71.399
Subtotal: 10) ANTI-TERRORISM FORCE PROTECTION ASHORE			-	-	401.084	-	-	37.324	-	-	40.822	-	-	116.864	-	-	-	-	-	116.864
11) VACIS																				
11.1) ZBV Military Trailer ^(†)	A		1,121K	2	2.242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 11) VACIS			-	-	2.242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12) Counter UAS Technology																				
12.1) Fixed Sites (JEON) ^(†)	A		7,786K	1	7.786	3,897K	1	3.897	-	-	-	-	-	-	-	-	-	-	-	-
12.2) Mobile Sites (JEON) ⁽⁴⁾	A		-	-	-	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-
12.3) Program Support (JEON) ⁽⁵⁾	A		-	-	1.509	-	-	1.600	-	-	-	-	-	-	-	-	-	-	-	-
12.5) Counter Small Unmanned Aircraft Systems (C-sUAS) ⁽⁶⁾	A		-	-	-	-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-
Subtotal: 12) Counter UAS Technology			-	-	9.295	-	-	9.897	-	-	10.000	-	-	-	-	-	-	-	-	-
Total			-	-	999.449	-	-	109.825	-	-	120.972	-	-	175.436	-	-	19.389	-	-	194.825
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
^(†) indicates the presence of a P-5a																				
Footnotes:																				
⁽¹⁾ FY18 Funding supports the prototyping of tech refresh systems that will directly support fielded systems and procurement of AN/PYX-1 systems and system software that will be fielded to Expeditionary Exploitation Unit 1 (EXU-1). FY19 Introduces biometrics capabilities for surface ships during Visit, Board, Search, and Seizure (VBSS). Funding requested procures tech refresh production systems and system software that will be fielded to the Fleet for the Visit, Board, Search, and Seizure (VBSS) mission.																				
⁽²⁾ FY19 increase of \$3.770 million is to account for roughly 564 service-common Table of Allowance items compared to the planned procurement of 282 items in FY18. These funds support the approved service-common Table Of Allowance requirements supporting End Strength Growth in order to meet Geographic Combatant Commanders (GCC) demands to support existing counter-terrorist, counter violent extremist organization, and Building Partner Capacity missions and operations. Disaggregated nature of current operations has SEAL elements deployed across the GCCs conducting combat or combat advise operations in austere environments with little-to-no established DoD infrastructure. These investments include but are not limited to the procurement of visual augmentation support items to include; small arms optics, night vision goggles, laser range finders, and illuminators. This materiel supports NSW core mission requirements and is essential to the readiness and battlefield effectiveness of NSW in winning the current fight against ISIS and other extremist elements.																				
⁽³⁾ A Counter Unmanned Aircraft Systems (C-UAS) solution is a precision system designed to protect high value assets and support public safety against threats posed by the inadvertent or unlawful misuse of unmanned aircraft systems (UAS). Identified solutions will reduce the risk posed by UAS threats and be widely applicable to protecting Naval critical infrastructure, installations, and Navy assets identified as Covered Facilities/Covered Assets as defined by the Secretary of Defense Policy and NDAA 18. This funding is required to procure hardware, perform site engineering studies, provide system design, conduct supporting site modifications, deploy and install the system, and provide operator training, to include Tier 1 maintenance. Additional information is available at a higher classification level.																				
⁽⁴⁾ Procures two mobile sites to protect assets while in transit to and from sea.																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8128 / Physical Security Equipment	Aggregated Items Title: Physical Security Equipment
⁽⁵⁾ Funds system engineering, test and evaluation, and certification for fixed and mobile sites. ⁽⁶⁾ A Counter Unmanned Aircraft Systems (C-UAS) solution is a precision system designed to protect high value assets and support public safety against threats posed by the inadvertent or unlawful misuse of unmanned aircraft systems (UAS). Identified solutions will reduce the risk posed by UAS threats and be widely applicable to protecting Naval critical infrastructure, installations, and Navy assets identified as Covered Facilities/Covered Assets as defined by the Secretary of Defense Policy and NDAA 18. This funding is required to procure hardware, perform site engineering studies, provide system design, conduct supporting site modifications, deploy and install the system, and provide operator training, to include Tier 1 maintenance. Additional information is available at a higher classification level.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8128 / Physical Security Equipment						Aggregated Items: Physical Security Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
11) VACIS												
11.1) ZBV Military Trailer	✓	2014	GSA Federal Supply / Norfolk, VA	C / FFP	Norfolk, VA	May 2015	Jun 2015	2	1,121K	N		
12) Counter UAS Technology												
12.1) Fixed Sites (JEON)		2016 ⁽⁷⁾	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	7,785K	N	Sep 2017	
12.1) Fixed Sites (JEON)		2017 ⁽⁸⁾	TBD / TBD	C / TBD	** NO PCO **	Oct 2016	Oct 2016	1	3,897K	N	Sep 2018	

Footnotes:⁽⁷⁾ Classified Contract⁽⁸⁾ Classified Contract

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8161 / Enterprise Information Technology					
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>)	369.368	88.799	19.789	25.393	0.000	25.393	22.800	20.834	12.017	11.104	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	369.368	88.799	19.789	25.393	0.000	25.393	22.800	20.834	12.017	11.104	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	369.368	88.799	19.789	25.393	0.000	25.393	22.800	20.834	12.017	11.104	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>)	-	0.666	1.111	0.138	-	0.138	0.141	0.143	0.097	0.148	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Distance Support: A Navy Enterprise effort that combines people, processes and technology into a collaborative infrastructure without regard to geographic location. Distance Support (DS) is comprised of the following three components: Infrastructure, Content and Customer Relationship Management (CRM). Infrastructure provides the "transport" of DS applications and data to and from operating units and shore installations in support of various processes. Technology infrastructure also includes the data replication and shipboard IT servers that bring the DS functionality to the sailor. Content includes specific applications, systems and processes produced by various Navy communities of Interest. Customer Relationship Management (CRM) capabilities include the "Navy 311" Website, BMC Remedy Software, Shared Data Environment, Business Intelligence and Predictive Modeling software, Avaya telephony and Call Management System, and the Navy 311 Support Center, which is the hub of Distance Support, providing the single point of entry for support requests for fleet customers on a 24 hours per day, 7 days per week, 365 days per year basis (24/7/365). The Navy Information Application Product Suite (NIAPS) is comprised of integrated hardware and GOTS software that bring various workstations, storage, servers, applications and content into a common environment for shipboard deployment. NIAPS provides data compression and replication capability and is designed to re-host typically shore/web-based applications afloat to minimize bandwidth and provide maximum capability. NIAPS is comprised of 27 applications and databases launched from a single Distance Support (DS) Portal on NIAPS server. NIAPS runs applications specifically tailored to individual afloat units for training, career management, maintenance, technical drawings, logistics, human resources, as well as morale and welfare support (Quality of life) which are produced by various Navy functional organizations. NIAPS gives a ship access to critical applications and data using internal shipboard networks, which is faster and cheaper than using external bandwidth and satellite time. Data Center Consolidation (DCC): DCC procures and installs data center hardware, software, and licenses for established Navy Enterprise Data Centers (NEDCs) and other approved hosting locations as part of the Department of Defense's Information Technology efficiency to consolidate and standardize the Navy's Data Center footprint. DCC utilizes architecture, standards, and data strategy for enterprise solutions that leverage economies of scale for the consolidation of Navy Data Centers across the Department of the Navy. Oversight and execution of all DCC efforts are under the direction of Data Center and Application Optimization (DCAO) under Program Executive Office - Enterprise Information Systems (PEO EIS). Telephony - Tactical Voice and Video communications and Modernization: The Department of Defense (DoD), Chief Information Officer (CIO) has prioritized the modernization of network infrastructure to be regionally based, centrally managed and cyber secure. This includes migrating existing infrastructure from Time Division Multiplexing (TDM) to Internet Protocol (IP) based communications to enable Unified Capabilities (UC). Telephony procures and integrates Commercial-Off-The-Shelf (COTS) hardware and software to meet the DoD-CIO TDM to IP mandate for the Navy. Program requirements include: Voice over Internet Protocol (VoIP), Voice over Secure Internet Protocol (VoSIP), Video Conferencing over Secure Internet Protocol (VTCoSIP), Telephony Unified Messaging System (TUMS), Regional Telephony Management System (RTMS), Navy Video Conferencing System (NVCS), NVCS												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8161 / Enterprise Information Technology
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		
Coalition (NVCS-C), Internet Protocol (IP) Trunking, Aegis Ashore, and Telephony systems infrastructure (e.g. cable plant). Telephony system installations and/or upgrades occur at facilities in accordance with requirements as identified by Navy Information Forces (NAVIFOR), Office of the Chief of Naval Operations (OPNAV), and Missile Defense Agency (MDA). MILCON C5I Shore Based Enterprise Network Enhancements: Funding additionally supports procurement and installation of mission related Telephony equipment at the following shore sites: - MILCON P-913: Naval Computer and Telecommunications Area Master Station (NCTAMS) Atlantic - MILCON P-621: NCTAMS Det Rota Spain MILCON Project P-013 - Navy Information Operations Command, Hawaii (NIOC HI) performs all duties assigned by Commander Pacific Fleet (COMPACFLT), Fleet Cyber Command (FLTCYBERCOM) / Commander Tenth Fleet (COMTENTHFLT), Navy Information Forces (NIF), and the Director, National Security Agency. NIOC HI conducts and provides support to information warfare, cyber, signals intelligence, Information Operations (IO) and electronic warfare mission areas in the Pacific Fleet area of responsibility (PAC AOR). At the direction of United States Cyber Command (USCYBERCOM), FLTCYBERCOM / COMTENTHFLT will be deploying substantial Cyber Mission Forces to Oahu. NCTAMS PAC and NIOC HI require close collaboration and alignment between the elements of the intelligence community under NIOC HI and the network operations under NCTAMS PAC in a controlled environment. MILCON Project P-013 provides Sensitive Compartmented Information Facility (SCIF) space for three PACOM Cyber Protection Teams, which currently has inadequate SCIF space to meet USCYBERCOM standards.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment					P-1 Line Item Number / Title: 8161 / Enterprise Information Technology					
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-5	1 / Enterprise Information Technology				- / 10.097	- / 5.319	- / 5.566	- / 21.256	- / 0.000	- / 21.256
P-3a	1 / BLII OCONUS IT Infrastructure (TBD)				- / 314.531	- / 72.912	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	2 / Telephony (TBD)				- / 44.740	- / 10.568	- / 14.223	- / 4.137	- / 0.000	- / 4.137
P-40	Total Gross/Weapon System Cost				- / 369.368	- / 88.799	- / 19.789	- / 25.393	- / 0.000	- / 25.393
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-5	1 / Enterprise Information Technology				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / BLII OCONUS IT Infrastructure (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 387.443
P-3a	2 / Telephony (TBD)				- / 3.980	- / 4.015	- / 4.455	- / 4.702	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 22.800	- / 20.834	- / 12.017	- / 11.104	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 (\$2.740) 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. Funding for NMCI OCONUS was transferred to LI 8164, Next Generation Enterprise Service in FY18. Distance Support: Distance Support Customer Relationship Management (DS-CRM) funds the procurement of new BMC Remedy Licenses (to support growth and use of Remedy and Shared Data Environment) for both NIPR and SIPR, Optimal Identity Management Licenses (Centralized and automated CAC authentication and authorization for all NAVY 311 applications), and all the associated labor for the implementation, optimization, configuration, and integration of the listed software and hardware in environment. FY19 also funds the procurement of Microsoft Windows 2012 and SQL Server 2012 licenses to support installation of NIAPS V3.0. NIAPS V3.0 replaces NIAPS 2.4.X, which utilizes end-of-life software that is not PKI compliant, and meets newly established cybersecurity requirements to include renewal of Authority to Operate (ATO)s within the Risk Management Framework (RMF). Data Center Consolidation (DCC): In FY19, OPN funding will procure servers (encompassing both hardware and software components), ancillary equipment associated with the servers (racks, cables, switches, etc.), and integration and installation efforts as needed to meet additional hosting requirements as consolidated applications are hosted in approved hosting locations, and as a part of regular data center technical refresh. Regular technical refresh is required to maintain cyber security readiness and accreditation at the data centers under Data Center and Application Optimization (DCAO)'s purview. Telephony Tactical Voice and Video communications and Modernization: In FY19, the program will continue procurement and installation of Internet Protocol (IP)- based equipment in support of DoD's Everything over IP (EoIP) mandate and Telephony requirements including: Voice over Internet Protocol (VoIP), Voice over Secure Internet Protocol (VoSIP), Video Teleconferencing over Secure Internet Protocol (VTCoSIP), Telephony Unified Messaging System (TUMS), Regional Telephony Management System (RTMS), Navy Video Conferencing System (NVCS), NVCS Coalition (NVCS-C), Internet Protocol (IP) Trunking, Aegis Ashore, and Telephony systems infrastructure (e.g. cable plant). Telephony system installations and/or upgrades occur at facilities in accordance with requirements as identified by Navy Information Forces (NAVIFOR), Office of the Chief of Naval Operations (OPNAV), and										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8161 / Enterprise Information Technology
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		
Missile Defense Agency (MDA) (i.e. FLTNOCs, Fleet Telecommunications sites, and Aegis Ashore Sites). FY18 procurements reflect a one time procurement strategy for TDM to IP Modernization that will be delivered turn key with no installation cost NCTS San Diego. FY19 installation cost of \$756K represents the installation of FY 18 Tactical hardware which is installed at NCTAMS LANT. FY19-FY23 procurement and installation unit cost variances are based on the location of the region/site (CONUS,OCONUS), number of sites in the region, the various site architectures and requirements, the age and type of systems modernized, and user density (number of users). Telephony quantities represent the number of regions that are being replaced/modernized in the given Fiscal Year (FY). Each region has numerous sites with unit and installation costs varying based on the location of the region/site (CONUS,OCONUS), number of sites in the region, the various site architectures and requirements, the age and type of systems modernized, and user density (number of users). Regions: CONUS: Southwest, Pacific Northwest, Southeast, Northeast, Mid-Atlantic. OCONUS: Western Pacific, Guantanamo, Europe, Middle East - Installation schedule reflects 6 months of integration and Pre-Installation and Test Check Out (PITCO) after delivery and prior to installation. Funding additionally supports procurement and installation of mission related Telephony equipment at the following shore sites: - MILCON P-913: Naval Computer and Telecommunications Area Master Station (NCTAMS) Atlantic - MILCON P-621: NCTAMS Det Rota Spain MILCON Project P-013 - Funding supports procurement and installation of mission related command, control, communications, computers and intelligence/Information Technology (C4I/IT) equipment to new Naval Computer and Telecommunications Area Master Station Pacific (NCTAMSPAC) Facility in Wahiawa. Relocates the Navy Information Operations Command (NIOC) Hawaii from Pearl Harbor to Wahiawa because the current facility has no installed fire sprinklers; extensive termite damage in roof and had structural column failure; and is operating under multiple SCIF security waivers.		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8161 / Enterprise Information Technology						Item Number / Title [DODIC]: 1 / Enterprise Information Technology						
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				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				10.097		5.319		5.566		21.256		0.000		21.256				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				10.097		5.319		5.566		21.256		0.000		21.256				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				10.097		5.319		5.566		21.256		0.000		21.256				
(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 Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - Risk Management Initiative Cost																		
Recurring Cost																		
1.1.1) Risk Management Information	3,177.000	1	3.177	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	3.177	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - Risk Management Initiative Cost	-	-	3.177	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - Data Center Consolidation Cost																		
Recurring Cost																		
2.1.1) DCC - Data Center Consolidation	-	-	5.000	-	-	3.820	-	-	3.710	-	-	3.235	-	-	0.000	-	-	3.235
Subtotal: Recurring Cost	-	-	5.000	-	-	3.820	-	-	3.710	-	-	3.235	-	-	0.000	-	-	3.235
Subtotal: Hardware - Data Center Consolidation Cost	-	-	5.000	-	-	3.820	-	-	3.710	-	-	3.235	-	-	0.000	-	-	3.235
Hardware - Distance Support Cost																		
Recurring Cost																		
3.1.1) Distance Support Hardware	-	-	0.000	-	-	0.000	-	-	0.200	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.200	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - Distance Support Cost	-	-	0.000	-	-	0.000	-	-	0.200	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - MILCON Outfitting (Non Telephony) Cost																		
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8161 / Enterprise Information Technology						Item Number / Title [DODIC]: 1 / Enterprise Information Technology						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
4.1.1) MILCON P-013 - Wahiawa Shorebased Enhancements ⁽¹⁾	-	-	0.000	-	-	0.000	-	-	0.000	-	-	10.147	-	-	0.000	-	-	10.147
Subtotal: Non Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	10.147	-	-	0.000	-	-	10.147
Subtotal: Hardware - MILCON Outfitting (Non Telephony) Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	10.147	-	-	0.000	-	-	10.147
Hardware - Telephony MILCONS Cost																		
Non Recurring Cost																		
5.1.1) MILCON P-913: NCTAMS LANT ⁽²⁾	-	-	0.000	-	-	0.000	-	-	0.000	-	-	4.139	-	-	0.000	-	-	4.139
5.1.2) MILCON P-621: NCTAMS Det Rota ⁽³⁾	-	-	0.000	-	-	0.000	-	-	0.000	-	-	3.000	-	-	0.000	-	-	3.000
Subtotal: Non Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	7.139	-	-	0.000	-	-	7.139
Subtotal: Hardware - Telephony MILCONS Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	7.139	-	-	0.000	-	-	7.139
Software - Distance Support Cost																		
Non Recurring Cost																		
6.1.1) Distance Support Software ⁽⁴⁾	-	-	1.920	-	-	1.499	-	-	1.656	-	-	0.735	-	-	0.000	-	-	0.735
Subtotal: Non Recurring Cost	-	-	1.920	-	-	1.499	-	-	1.656	-	-	0.735	-	-	0.000	-	-	0.735
Subtotal: Software - Distance Support Cost	-	-	1.920	-	-	1.499	-	-	1.656	-	-	0.735	-	-	0.000	-	-	0.735
Gross/Weapon System Cost	-	-	10.097	-	-	5.319	-	-	5.566	-	-	21.256	-	-	0.000	-	-	21.256
Remarks: [Hardware] Telephony MILCONS -Funding supports procurement and installations of mission related Telephony equipment in support of MILCON projects. MILCON support cost vary by site.																		
Footnotes: ⁽¹⁾ MILCON Project P-013 relocates the Navy Information Operations Command (NIOC) Hawaii from Pearl Harbor to Wahiawa. The new facility will provide Sensitive Compartmented Information Facility (SCIF) space for three Pacific Command PACOM) Cyber Protection Teams, which currently have inadequate SCIF space to meet United States Cyber Command (USCYBERCOM) standards. Funding supports the Wahiawa information technology efforts to include both Genser and Top Secret configuration. ⁽²⁾ Non recurring costs FY19 & FY20 supports procurement and installation of mission related Telephony equipment at the following shore sites: - MILCON P-913: Naval Computer and Telecommunications Area Master Station (NCTAMS) Atlantic																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8161 / Enterprise Information Technology	Item Number / Title [DODIC]: 1 / Enterprise Information Technology
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
⁽³⁾ Non recurring costs FY19 & FY20 supports procurement and installation of mission related Telephony equipment at the following shore site: - MILCON P-621: NCTAMS Det Rota Spain ⁽⁴⁾ Software is attributed to the procurement of BMC Remedy licenses and Optimal Identity Management Licenses for CRM and Windows 12 licenses to support the upgrade to NIAPS 3.0.		

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Exhibit P-3a, Individual Modification: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8161 / Enterprise Information Technology					Modification Number / Title: 1 / BLII OCONUS IT Infrastructure			
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)	314.531	72.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	387.443
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	314.531	72.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	387.443
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	314.531	72.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	387.443
(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 Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
In FY18, Base Level Information Infrastructure (BLII), along with related US Navy pier side infrastructure) will transition to the NGEN business model upon the award of the NGEN follow-on contract, and is realigned from BLI 8161 to 8164. This will allow the Naval Enterprise Networks (NEN) to function as common global network, through the institution of a single approved service operating model in conjunction with NGEN CONUS. The CONUS and OCONUS operating models are intended to align, and networks are to merge to a single allocated baseline as part of the Re-compete contract.												
Base Level Information Infrastructure (BLII) Tech Refresh/Integration provides for the technical refresh of existing antiquated network equipment and infrastructure that resides on the OCONUS Navy Network (ONE-NET), along with related US Navy pier side infrastructure, for transition to a common Naval Enterprise Networks (NEN) through the institution of a single approved service operating model in conjunction with the Next Generation Enterprise Network (NGEN). Funding will allow for the refresh of 2,000+ network devices that have reached end of life/support and now present security risks to the network, along with 9,000+ antiquated PCs which will be at the end of their warranty.												
Base Level Information Infrastructure (BLII) ORT Cyber Remediation funding will be used to upgrade current Information Assurance / security technologies deployed on the OCONUS network such as firewalls, virtual private networks, authentications, cryptographic log-ons, and network segregation. Additional details held at a higher level.												
OCONUS/CONUS Piers Tech Refresh/Integration Enterprise Pier Connectivity Architecture (EPCA) funding will be used to upgrade existing End of Life (EOL) infrastructure (routers, switches, servers, etc.) based on a single solution, more specifically EPCA v2.0, for 1 CONUS pier locations at Naval Station Bremerton and 1 OCONUS location at Guam. This technical refresh will allow for the transition of Piers/EPCA into a single global Navy Enterprise Network (NEN) and ensure a common Piers standard worldwide.												
Navy Enterprise Network (NEN) Tech Refresh/Integration provides for the required Systems/Security Engineering and Integration, Production, Installation and Implementation of hardware and software in support of the transition of ONE-NET into NNE resulting in a fully integrated, single Navy network with unclassified and classified enclaves operated via a controlled Network Management System that will be compatible with the Joint Information Environment (JIE) and Defense Information Systems Agency (DISA) objectives.												

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Exhibit P-3a, Individual Modification: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8161 / Enterprise Information Technology					Modification Number / Title: 1 / BLII OCONUS IT Infrastructure			
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> BLII OCONUS IT Infrastructure												
B Kits												
Recurring												
1.1.1) Base Level Information Infrastructure (BLII) Tech Refresh/Integration - NonOrganic	77 / 252.071	14 / 59.232	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 311.303
1.1.2) Base Level Information Infrastructure (BLII) ORT Cyber Remediation - Organic	- / 25.525	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.025
1.1.3) OCONUS/CONUS Piers Tech Refresh/Integration - NonOrganic	8 / 15.277	2 / 1.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 16.677
1.1.4) Navy Enterprise Network (NEN) Tech Refresh/Integration - NonOrganic	- / -	3 / 5.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.724
<i>Subtotal: Recurring</i>	- / 292.873	- / 66.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 359.729
<i>Subtotal: BLII OCONUS IT Infrastructure</i>	85 / 292.873	19 / 66.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 359.729
<i>Subtotal: Procurement, All Modification Items</i>	- / 292.873	- / 66.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 359.729
Support (All Modification Items)												
2.1) Base Level Information Infrastructure (BLII) Production Support	- / 15.097	- / 2.428	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 17.525
2.2) CONUS/OCONUS Piers Production Support	- / 1.079	- / 0.044	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 1.123
2.3) Navy Enterprise Network (NEN) Production Support	- / 0.000	- / 0.399	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.399
<i>Subtotal: Support</i>	- / 16.176	- / 2.871	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 19.047
Installation												
<i>Modification Item 1 of 1:</i> BLII OCONUS IT Infrastructure	- / 5.482	- / 3.185	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 8.667
<i>Subtotal: Installation</i>	- / 5.482	- / 3.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.667
Total												
Total Cost (Procurement + Support + Installation)	314.531	72.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	387.443

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8161 / Enterprise Information Technology				Modification Number / Title: 1 / BLII OCONUS IT Infrastructure				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Modification Item 1 of 1: BLII OCONUS IT Infrastructure												
Manufacturer Information												
Manufacturer Name: HP							Manufacturer Location: SAN DIEGO, CA					
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	Feb 2017											
Delivery Dates	Apr 2017											
Manufacturer Name: SSC PAC							Manufacturer Location: San Diego, CA					
Administrative Leadtime (in Months): 4							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											
Manufacturer Name: SSC PAC-- San Diego, CA							Manufacturer Location: San Diego, CA					
Administrative Leadtime (in Months): 4							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: [none specified]:: Installation Name: Base Level Information Infrastructure (BLII) Tech Refresh/Inte												
Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	77 / 3.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	77 / 3.587
FY 2017	- / -	14 / 2.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	14 / 2.641
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	77 / 3.587	14 / 2.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	91 / 6.228

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Exhibit P-3a, Individual Modification: PB 2019 Navy																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2										P-1 Line Item Number / Title: 8161 / Enterprise Information Technology										Modification Number / Title: 1 / BLII OCONUS IT Infrastructure											
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: BLII OCONUS IT Infrastructure																															
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Base Level Information Infrastructure (BLII) Tech Refresh/Inte																															
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	77	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91
Out	65	6	6	-	2	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91
Method of Implementation: [none specified]:: Installation Name: OCONUS/CONUS Piers Tech Refresh/Integration																															
Installation Cost		Prior Years	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 / 1.895	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 1.895																		
FY 2017		- / -	2 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.150																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		8 / 1.895	2 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 2.045																		
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	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	3	2	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Method of Implementation: [none specified]:: Installation Name: Navy Enterprise Network (NEN) Tech Refresh/Integration																															
Installation Cost		Prior Years	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		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2										P-1 Line Item Number / Title: 8161 / Enterprise Information Technology										Modification Number / Title: 1 / BLII OCONUS IT Infrastructure											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: BLII OCONUS IT Infrastructure																															
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Navy Enterprise Network (NEN) Tech Refresh/Integration																															
Installation Cost		Prior Years	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>																	
		- / -	3 / 0.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.394																		
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
		- / -	3 / 0.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.394																		
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
Out	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

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Exhibit P-3a, Individual Modification: PB 2019 Navy							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8161 / Enterprise Information Technology				Modification Number / Title: 2 / Telephony			

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>)	44.740	10.568	14.223	4.137	0.000	4.137	3.980	4.015	4.455	4.702	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	44.740	10.568	14.223	4.137	0.000	4.137	3.980	4.015	4.455	4.702	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	44.740	10.568	14.223	4.137	0.000	4.137	3.980	4.015	4.455	4.702	Continuing	Continuing
(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Telephony Tactical Voice and Video communications and Modernization:

The Department of Defense (DoD), Chief Information Officer (CIO) Memorandum lists as a priority, the modernization of network infrastructure to be regionally based, centrally managed, Unified Capabilities (UC) compliant and cyber secure. This includes migrating existing infrastructure from Time Division Multiplexing (TDM) to Internet Protocol (IP) based communications to enable Unified Capabilities (UC). Telephony procures and integrates Commercial-Off-The-Shelf (COTS) hardware and software to meet the DoD-CIO TDM to IP mandate for the Navy. All efforts are performed in accordance with policy and procedures set forth in Department of Defense Instruction (DoDI) 8100.03, Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 6212.01 and CJCSI 6215.01D and DoD Unified Capabilities Requirement 2013. Program requirements include: Voice over Internet Protocol (VoIP), Voice over Secure Internet Protocol (VoSIP), Video Teleconferencing over Secure Internet Protocol (VTCoSIP), Telephony Unified Messaging System (TUMS), Regional Telephony Management System (RTMS), Navy Video Conferencing System (NVCS), NVCS Coalition (NVCS-C), Internet Protocol (IP) Trunking, Aegis Ashore, and Telephony systems infrastructure (e.g. cable plant). Telephony system installations and/or upgrades occur at facilities in accordance with requirements as identified by Navy Information Forces (NAVIFOR), Office of the Chief of Naval Operations (OPNAV), and Missile Defense Agency (MDA) (i.e. FLTNOCs, Fleet Telecommunications sites, and Aegis Ashore Sites).

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LI 8161 - Enterprise Information Technology
Navy

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Exhibit P-3a, Individual Modification: PB 2019 Navy										Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2										P-1 Line Item Number / Title: 8161 / Enterprise Information Technology										Modification Number / Title: 2 / Telephony											
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:																
Modification Item 1 of 1: Telephony																															
Manufacturer Information																															
Manufacturer Name: DISA-DITCO															Manufacturer Location: Scott Airforce Base, IL 62225																
Administrative Leadtime (in Months): 5															Production Leadtime (in Months): 2																
Dates		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023					
Contract Dates		Mar 2017				Mar 2018				Mar 2019																					
Delivery Dates		May 2017				May 2018				May 2019																					
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Telephony Replacement/Modernization (Voice) 1.2																															
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		7 / 2.499		2 / 2.616		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		9 / 5.115							
FY 2017		- / -		- / -		2 / 4.102		- / -		- / -		- / -		- / -		- / -		- / -		- / -		0 / 0.000		2 / 4.102							
FY 2018		- / -		- / -		- / -		1 / 0.756		0 / 0.000		1 / 0.756		- / -		- / -		- / -		- / -		0 / 0.000		1 / 0.756							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		1 / 0.756		- / -		- / -		- / -		0 / 0.000		1 / 0.756							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / 0.785		- / -		- / -		0 / 0.000		1 / 0.785							
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / 0.805		- / -		0 / 0.000		1 / 0.805							
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / 0.856		Continuing		Continuing							
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		Continuing		Continuing							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		7 / 2.499		2 / 2.616		2 / 4.102		1 / 0.756		0 / 0.000		1 / 0.756		1 / 0.756		1 / 0.785		1 / 0.805		1 / 0.856		Continuing		Continuing							
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	-	-	-	2	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	Cont.	Cont.
Out	7	-	-	2	-	-	-	2	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	Cont.	Cont.
Footnotes:																															
⁽⁵⁾ Procure/Install Cost: (1) Telephony quantities represent the number of regions that are being replaced/modernized in the given Fiscal Year (FY). Each region has numerous sites with unit and installation costs varying based on the location of the region/site (CONUS,OCONUS), number of sites in the region, the various site architectures and requirements, the age and type of systems modernized, and user density (number of users). Telephony's modernization plan is designed to eliminate cyber security vulnerabilities due to hardware and software obsolescence. Telephony's systems are located in 5 regions supporting the Fleet Commanders and their forces. Regions: 1)Eastern Pacific supporting Commander Pacific Fleet and Commander Third Fleet (Naval Computer & Telecommunications Area Master Station Pacific																															

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Exhibit P-3a, Individual Modification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8161 / Enterprise Information Technology	Modification Number / Title: 2 / Telephony
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(NCTAMS PAC) and Naval Computer & Telecommunications Station San Diego (NCTS San Diego); 2) Western Pacific supporting Commander Seventh Fleet; 3) Indian Ocean supporting Commander Fifth (NCTS BAHRAIN); 4) European supporting Commander Sixth Fleet (NCTS NAPLES); and 5) Atlantic supporting US Fleet Forces Command, Commander Tenth Fleet and Commander Fourth Fleet (NCTAMS LANT); and Joint and Coalition Partners within each region. Installation schedule reflects 9 months of integration and PITCO after delivery and prior to installation. Associated installation of the NCTAMS LANT equipment procured with FY18 funding and is funded in FY19 with an installation cost of \$756K. FY19-FY23 procurement and installation unit cost variances are based on the location of the region/site (CONUS,OCONUS), number of sites in the region, the various site architectures and requirements, the age and type of systems modernized, and user density (number of users).		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 5: Other							P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service					
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>)	104.642	84.176	104.584	96.269	0.000	96.269	139.460	144.537	147.273	169.347	-	990.288
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	104.642	84.176	104.584	96.269	0.000	96.269	139.460	144.537	147.273	169.347	-	990.288
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	104.642	84.176	104.584	96.269	0.000	96.269	139.460	144.537	147.273	169.347	-	990.288
<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: Next Generation Enterprise Network (NGEN) is the acquisition approach and contract vehicle used to manage the Navy Marine Corps Intranet (NMCI) enterprise network which will provide secure, net-centric data and services to Navy and Marine Corps personnel and represents the continuous evolution of information technology at the Department of Navy (DoN). Additionally NGEN provides security for the non-classified Internet Protocol (IP) Router Network (known as NIPRNET) and the classified Secret Internet Protocol Router Network (SIPRNET). NIPRNET is a private IP network used to exchange unclassified information, including information subject to controls on distribution, among the private network's users. SIPRNET is a system of interconnected computer networks used to transmit classified information (up to and including information classified SECRET) by packet switching over the "completely secure environment." NGEN forms the foundation for the DoN's future Naval Network Environment that will be interoperable with and leverage other Department of Defense-provided Net-Centric Enterprise Services. The Base Level Information Infrastructure (BLII) nomenclature became the Navy/Marine Corps Intranet (NMCI) OCONUS in FY18, realigning funding from 8161 ENTERPRISE INFORMATION TECHNOLOGY to 8164 NEXT GENERATION ENTERPRISE SERVICE . NMCI OCONUS, along with related US Navy pier side infrastructure, will transition to the NGEN business model upon the award of the NGEN follow-on contract. This will allow the Naval Enterprise Networks (NEN) to function as common global network, through the institution of a single approved service operating model. MILCON Project P-013 - MILCON Project P-013 provides Sensitive Compartmented Information Facility (SCIF) space for three PACOM Cyber Protection Teams in Hawaii Wahiawa, which currently has inadequate SCIF space to meet USCYBERCOM standards. MILCON P-913 project combines the cyber defense missions from two buildings (M-51 and NH-95) into one 187,000 square foot integrated communications facility with SCIF capability at Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT). [P5 / CONUS -Technical Refresh and Modernization Plan (TRMP)]: CONUS Technology Refresh and Modernization Plan (TRMP): TRMP is a requirement performed by Naval Enterprise Networks (NEN) which focuses on upgrading the existing Hardware and or Software to mitigate End of Life, End of Support and End of Software Support issues in order to maintain network performance, Architecture/Solution Accreditations and network security. TRMP also allows the NEN program to insert and or augment new technology solutions (H/W and/or S/W) to meet evolving requirements (e.g. Cloud Migration and Productivity Services) and keep closer pace with industry advancements.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 5: Other		P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service
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		
[P5 / OCONUS ONE-NET Transition]: NMCI OCONUS funding will provide for the technical refresh of antiquated server farms that have reached end of life/support and now present security risks to the network, along with antiquated PCs which will be at the end of their warranty. It will also provide the funding for systems/security engineering and integration, production, installation and implementation of hardware and software in support of the transition of ONE-NET into the NGEN business model. This will result in a fully integrated navy network with NIPR (unclassified) and SIPR (classified) enclaves operated via a controlled common operational approach. [P5 / OCONUS ONE-NET Technical Refresh]: ONE-NET FY19 funding will provide for the technical refresh of antiquated server farms that have reached end of life/support and now present security risks to the network, along with antiquated PCs which will be at the end of their warranty. It will also provide the funding for systems/security engineering and integration, production, installation and implementation of hardware and software in support of the transition of ONE-NET into NGEN business model. [P5 / OCONUS Piers Technical Refresh]: Additionally FY19 funding will be used to upgrade existing End of Life (EOL) infrastructure (routers, switches, servers, etc.) for global Navy PIERS locations which will allow for the transition of the OCONUS Enterprise Pier Connectivity Architecture (EPCA) into a single global network. [P5 / Joint Regional Security Stack (JRSS)]: The Joint Regional Security Stack (JRSS) is a Joint Information Environment (JIE) initiative that consolidates Cybersecurity control points for the Department of Defense (DoD) and mission support organizations. JRSS will replace the existing Navy cyber protection boundaries allowing for a common and operable cyber defense network across all of the DoD.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 5: Other					P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service					
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-5	1 / Next Generation Enterprise Service				- / 104.642	- / 84.176	- / 104.584	- / 96.269	- / 0.000	- / 96.269
P-40	Total Gross/Weapon System Cost				- / 104.642	- / 84.176	- / 104.584	- / 96.269	- / 0.000	- / 96.269
*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:

CONUS TRMP Costs +\$9.7M:

The net growth of +\$9.7M from FY18 to FY19 for the Technical Refresh and Modernization Plan (TRMP) consists of the following: An increase of +\$10.8M in support of Cable Plant outside plant/inside plant (OSP/ISP) and required facility infrastructure equipment replacement to prepare the NMCI infrastructure for access to Cloud and web enabled enterprise solutions. This capability does not currently exist on the NMCI network. The slight decrease of -\$1.1M is the result of a refinement of TRMP requirements currently on the network.

OCONUS Costs -\$21.3M consist of the following:

- ONE-Net Transition (-\$14.1M): The decrease of -\$14.1M is a result of the transition of ONE-Net from the Government Owned/Government Operated (GO/GO) model to the NGEN Government Owned/ Contractor Operated (GO/CO) model upon the NGEN-R contract award.
- ONE-Net Technical Refresh (-\$1.7M): The decrease of -\$1.7M from FY18 to FY19 is a result of the transition of ONE-NET from the Government Owned/Government Operated (GO/GO) model to the NGEN Government Owned/ Contractor Operated (GO/CO) model. Therefore, less OPN funding is required to maintain existing hardware until full transition of OCONUS seats to NGEN-R contract.
- Piers Technical Refresh (-\$5.4M): The decrease of -\$5.4M is due to 3-year refresh, which was completed in FY18. Therefore, minimal OPN funding is required to upgrade existing hardware until full transition of OCONUS seats to NGEN-R contract.

Joint Regional Security Stack (JRSS) (-\$0.7M): The decrease of -\$0.7M for the Joint Regional Security Stack (JRSS) is a result of a Departmental decision to realign funding to DISA to pay for the Navy's fair share of the Department of Defense (DoD) JRSS must pay bill. The funding supports planning, engineering, and movement of Navy Networks behind the JRSS through firewall functionality, intrusion detection and prevention, enterprise management, virtual routing and forwarding (VRF), and other network security capabilities.

NCTAMS LANT C4I costs +\$3.4M:

The growth of +\$3.4M supports MILCON Project P-913 - Shore Based Enterprise Network Enhancements: This funding supports the procurement and installation of NMCI infrastructure to the new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility (MILCON P-913).

The Base Level Information Infrastructure (BLII) nomenclature became the Navy/Marine Corps Intranet (NMCI) OCONUS in FY18, realigning funding from 8161 ENTERPRISE INFORMATION TECHNOLOGY to 8164 NEXT GENERATION ENTERPRISE SERVICE

The Base Level Information Infrastructure (BLII), will be called the Navy/Marine Corps Intranet (NMCI) OCONUS.

NMCI OCONUS, along with related US Navy Pier side infrastructure, will transition to the NGEN business model upon the award of the NGEN follow-on contract. This will allow the Naval Enterprise Networks (NEN) to function as common global network, through the institution of a single approved service operating model in conjunction with the current Navy Marine Corps Intranet (NMCI) network. In essence, the CONUS and OCONUS networks are intended to merge into a single allocated baseline as part of the NGEN Re-compete contract.

NMCI OCONUS funding will provide for the technical refresh of antiquated server farms that have reached end of life/support and now present security risks to the network, along with antiquated PCs which will be at the end of their warranty. It will also provide the funding for systems/security engineering and integration, production, installation and implementation of hardware and software in support of the transition of

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 5: Other		P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service
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		
ONE-NET into NEN. This will result in a fully integrated navy network with NIPR (unclassified) and SIPR (classified) enclaves operated via a controlled common operational approach. Additionally FY19 funding will be used to upgrade existing End of Life (EOL) infrastructure (routers, switches, servers, etc.) for global Navy PIERS locations which will allow for the transition of the OCONUS Enterprise Pier Connectivity Architecture (EPCA) into a single global network. Technology Refresh and Modernization Plan (TRMP) involves the modernization and periodic replacement of NMCI hardware/software and assigned non-IT assets identified in the NGEN TRMP plan required to support network performance. The objective of TRMP is to improve and maintain network performance, increase network capacity based on project demand, improve security posture from vulnerabilities and integrate DoD and/or DoN mandates. NGEN assets are Government Owned/Contractor Operated (GO/CO). A significant amount of those assets have reached End-of-Life and are no longer supported by the vendors, which makes our infrastructure vulnerable to external cyber-attacks; and diminishes enterprise solutions performance and optimization. Our current infrastructure is aged and modernization is essential to improve storage capabilities to accommodate new emerging workforce requirements; maintain network performance, architecture/solution accreditations, and network security. The procurement of these assets will continue in FY18 and beyond. TRMP also allows the NEN program to insert and or augment new technology solutions (H/W and/or S/W) to meet evolving requirements (e.g. JRSS and ORT) and keep closer pace with industry advancements. Hence, future TRMP funding will be utilized to transition to 10GB networks. The final phase of ORT cybersecurity enhancements were procured in FY16 for deployment in FY17. Therefore, beginning in FY18, previously deployed ORT components that become obsolete will be refreshed as part of TRMP to maintain the security posture of the network, which will become part of the baseline for the follow-on NGEN contract. New and advanced cyber security efforts, not included in the NGEN Re-compete baseline, will leverage Cyber Resiliency funding. The Joint Information Environment (JIE) scope which included JRSS was laid out broadly in a series of Joint Chiefs of Staff Tank and Deputy Secretary Management Action Group (DMAG) decisions in 2012. DoD CIO, via the JIE EXCOM, has further refined the priorities of those tasks, consistent with the implementation strategy. JRSS is DoD's near term modernization priority, and is fielded as an Enterprise Service, as designated by the DoD CIO in November 2015. With the designation of JRSS as an Enterprise Service, the DoD CIO required JRSS be separately identified within the DoD FY17 President's IT Budget submission. The funding supports the planning, engineering and movement of Navy Networks behind the Joint Regional Security Stack (JRSS) through firewall functionality, intrusion detection and prevention, enterprise management, virtual routing and forwarding (VRF), and other network security capabilities. This OSD JRSS initiative comprises several critical Joint Information Environment capabilities including network modernization, initial implementation of a single security architecture, joint management of DoD IT security, and improvements to cyber-security situational awareness. JRSS transforms the network security, aligning the DoD Components to a common capability, which significantly improves DoD mission effectiveness through situational awareness visibility for all echelons within DoD. MILCON Project P-013 - Navy Information Operations Command, Hawaii (NIOC HI) performs all duties assigned by Commander Pacific Fleet (COMPACFLT), Fleet Cyber Command (FLTCYBERCOM) / Commander Tenth Fleet (COMTENTHFLT), Navy Information Forces (NIF), and the Director, National Security Agency. NIOC HI conducts and provides support to information warfare, cyber, signals intelligence, Information Operations (IO) and electronic warfare mission areas in the Pacific Fleet area of responsibility (PAC AOR). At the direction of United States Cyber Command (USCYBERCOM), FLTCYBERCOM / COMTENTHFLT will be deploying substantial Cyber Mission Forces to Oahu. NCTAMS PAC and NIOC HI require close collaboration and alignment between the elements of the intelligence community under NIOC HI and the network operations under NCTAMS PAC in a controlled environment. MILCON Project P-013 provides Sensitive Compartmented Information Facility (SCIF) space for three PACOM Cyber Protection Teams, which currently has inadequate SCIF space to meet USCYBERCOM standards.		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 5							P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service						Item Number / Title [DODIC]: 1 / Next Generation Enterprise Service								
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		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				104.642			84.176			104.584			96.269			0.000			96.269		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				104.642			84.176			104.584			96.269			0.000			96.269		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				104.642			84.176			104.584			96.269			0.000			96.269		
(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>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware - CONUS Cost																					
Recurring Cost																					
1.1.1) CONUS - Technical Refresh and Modernization Plan (TRMP) ⁽¹⁾	-	-	72.642	-	-	59.048	-	-	48.499	-	-	58.214	-	-	-	-	-	58.214			
1.1.2) CONUS - Operation Rolling Tide / Cyber Resiliency	-	-	32.000	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	104.642	-	-	59.548	-	-	48.499	-	-	58.214	-	-	-	-	-	58.214			
Subtotal: Hardware - CONUS Cost	-	-	104.642	-	-	59.548	-	-	48.499	-	-	58.214	-	-	-	-	-	58.214			
Hardware - OCONUS Cost																					
Recurring Cost																					
2.1.1) OCONUS ONE-NET Transition ⁽²⁾	-	-	-	-	-	-	-	-	32.003	-	-	17.875	-	-	-	-	-	17.875			
2.1.2) OCONUS ONE-NET Technical Refresh ⁽³⁾	-	-	-	-	-	-	-	-	13.810	-	-	12.077	-	-	-	-	-	12.077			
2.1.3) OCONUS Piers Technical Refresh ⁽⁴⁾	-	-	-	-	-	-	-	-	9.587	-	-	4.148	-	-	-	-	-	4.148			
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	55.400	-	-	34.100	-	-	-	-	-	34.100			
Subtotal: Hardware - OCONUS Cost	-	-	-	-	-	-	-	-	55.400	-	-	34.100	-	-	-	-	-	34.100			

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 5						P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service						Item Number / Title [DODIC]: 1 / Next Generation Enterprise Service						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - JRSS Cost																		
Recurring Cost																		
3.1.1) Joint Regional Security Stack (JRSS) (5)	-	-	-	-	-	24.628	-	-	0.685	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	24.628	-	-	0.685	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - JRSS Cost	-	-	-	-	-	24.628	-	-	0.685	-	-	-	-	-	-	-	-	-
Hardware - P013 MILCON Cost																		
Recurring Cost																		
4.1.1) P013 MILCON	-	-	-	-	-	-	-	-	-	-	-	0.541	-	-	-	-	-	0.541
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.541	-	-	-	-	-	0.541
Subtotal: Hardware - P013 MILCON Cost	-	-	-	-	-	-	-	-	-	-	-	0.541	-	-	-	-	-	0.541
Hardware - P-913 NCTAMS LANT C4I Cost																		
Recurring Cost																		
5.1.1) Shore Based Enterprise Network Enhancements: P-913 NCTAMS LANT C4I (6)	-	-	-	-	-	-	-	-	-	-	-	3.414	-	-	-	-	-	3.414
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	3.414	-	-	-	-	-	3.414
Subtotal: Hardware - P-913 NCTAMS LANT C4I Cost	-	-	-	-	-	-	-	-	-	-	-	3.414	-	-	-	-	-	3.414
Gross/Weapon System Cost	-	-	104.642	-	-	84.176	-	-	104.584	-	-	96.269	-	-	0.000	-	-	96.269
Remarks: [Hardware] Since the PB18, the CONUS/OCONUS costs have been broken out in FY18 and out, to provide additional insight into the program requirements.																		
Footnotes: (1) FY19 increase to support Cable Plant outside plant/inside plant (OSP/ISP) and required facility infrastructure equipment replacement to prepare the NMCI infrastructure for access to Cloud and web enabled enterprise solutions. (2) FY19 decrease due to the transition of ONE-Net from the Government Owned/Government Operated (GO/GO) model to the NGEN Government Owned/Contractor Operated (GO/CO) model. Therefore, less OPN funding is required to maintain existing hardware until full transition of OCONUS seats to NGEN-R contract. (3) FY19 decrease due to the transition of ONE-Net from the Government Owned/Government Operated (GO/GO) model to the NGEN Government Owned/Contractor Operated (GO/CO) model. Therefore, less OPN funding is required to maintain existing hardware until full transition of OCONUS seats to NGEN-R contract. (4) FY19 decrease due to 3-year refresh which was completed in FY18, therefore minimal OPN funding is required to upgrade existing hardware until full transition of OCONUS seats to NGEN-R contract.																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 5	P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service	Item Number / Title [DODIC]: 1 / Next Generation Enterprise Service
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(5) FY17 funding decrease due to realignment of JRSS funding to DISA to pay for the Navy's fair share of the JRSS must pay bill. (6) FY19 increase supports the procurement and installation of NMCI infrastructure to the new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility (MILCON P-913).		

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

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts	P-1 Line Item Number / Title: 9020 / Spares and Repair Parts

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>)	0.000	199.627	279.743	326.838	0.000	326.838	314.807	302.005	311.697	309.463	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	199.627	279.743	326.838	0.000	326.838	314.807	302.005	311.697	309.463	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	199.627	279.743	326.838	0.000	326.838	314.807	302.005	311.697	309.463	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:

OPN-8 Budget Activity (BA-08) funds Spares and Repair parts identified in Budget Activities (BA 01-07), which are required during the Interim pre-MSD period in support of Initial and Vendor Direct spares requirements, and Outfitting Spares requirements during the post MSD period. The interim period accounts for the initial material support requirements, i.e Installation and Check-Out Initial (INCO-I), Installation and Check-Out Replenishment (INCO-R), On board Repair Parts (OBRPs), and Maintenance Assistance Modules (MAMs). These spares funds procure repairable and consumable items to be provided to active ships, shore sites and expeditionary units for installation and maintenance of new equipment/capabilities and modernization /upgrades financed in OPN BAs 1-7. Vendor Direct material requirements acquired supports the Depot turn-a-round, and Depot through put capabilities for Appropriation Procurement Accounts. The Outfitting period funds and supports authorized Allowance Change Requests (ACRs), Range and Depth increases, Modernization to support new/upgraded equipment installs, Maintenance Changes to previously Installed equipment, as well as CNO directed availabilities and Refueling and Complex Overhaul (RCOH) efforts.

OPN-8 funding additionally provides for the Initial lay in of Shore Based support requirements in support of Expeditionary Combat Forces and Explosive Ordnance Disposal (EOD) units approved by OPNAV as appropriate.

The DoN has instituted numerous initiatives to better equip the Fleet and improve the execution of this line. Flag and SES level Spares Summits or Executive Spares Reviews are now held on regular basis. In addition, integrated product teams were formed to deep dive estimation models and schedules of program requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts						P-1 Line Item Number / Title: 9020 / Spares and Repair Parts				
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-18	OPN spares				- / -	- / 199.627	- / 279.743	- / 326.838	- / -	- / 326.838
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 199.627	- / 279.743	- / 326.838	- / 0.000	- / 326.838
Title represents the P-18 Title for Spares.										
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 (\$-3.545) 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. In FY19 this budget line supports quantity 106,699 equipments with budgeted cost of with \$7.88B. Increase in budget is to align the outfitting funding closer to the actual requirement to ensure a fully mission capable Fleet. Increase Justifications Initial Spares 0140 / Hybrid Electric Drive- Increase funds spares to support end items procured in prior fiscal years 0200 / Surface Combatant HM&E - increase funds spares to support ship control systems technical refresh 0920 / Outfitting (COSAL) - Increase funds fleet requisitions for initial spares for systems that are supported by DoD supply system 0840 / Sub Periscope, Imaging and Supt Equip Prog - (Initial) Increase in spares line is as a result of the new Low Profile Photonics Mast (LPPM). The design of the mast is modular to enable it to be taken apart if a sub section does not pass all testing during the installation. Spare subsections of the new mast need to be available as INCO items if there is a failure so the subsection can be replaced. There are also a small QTY of parts that will be ordered to repair the failed subsection. 0944 / LCS Class Support Equipment - Increase provides spares for in-service modernization installations. 0960 / Cruiser (CG) Modernization - Increase funds initial spares for system upgrades and tech refresh. 1602 / LCS ASW Mission Modules - The Antisubmarine Warfare (ASW) Mission Modules is an incremental acquisition for new capability. The increase is associated with required initial spares associated with the fielding of new initial capability for the ASW Mission Modules in support of increasing number of active LCS ships. 2026 / SPQ-9B Radar- Increase funds spares for upgrades to latest tech insertion configuration 2136 / AN/SQQ-89 Surf ASW Cmbt Sys - increase funds initial spares for tech insertion and increased onboard spares support 2237 / SURTASS - Increase funds initial spares for Integrated Common Processor(ICP) technical insertions and TL-29(A) array spares										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts
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		
2657 / NAVSTAR GPS RECEIVER (SPACE) - Increase funds spares for NAVIGATION WARFARE (NAVWAR) system installations and Global Positioning System Based Positioning, Navigation, and Timing Service (GPNTS).GPNTS LRIP 2867 /Joint Precision Approach and Landing System (JPALS) funds initial spares to support primary precision approach and landing system for CVN and LHA/D ships to support aircraft without SPN-46 ACLS capability 3010 / Shipboard Tactical Comms. - Increase provides initial spares for digital modular radio (DMR) MUOS IW waveform compatibility forward and back fits. 3050 / Ship Communications Automation - Increase funds initial spares for Tech insertion and engineering changes for automated digital network system (ADNS) and Command and Control (C2) Organizational Information Exchange (C2OIX) 3107 / Submarine Broadcast Support - Increase funds initial spares for Nuclear Command Control and communication (NC3) infrastructure upgrades 3130 / Submarine Communication Equipment - Increase supports initial spares for additional OE-538/BRC INC II antennas and Common Submarine Radio Room installations. 3216 / Navy Multiband Terminal - Increase provides initial spares for Assured Command and Control (C2) modem tech refresh. 3415 / Info Systems Security Program (ISSP) - Increase supports initial spares for SHARKCAGE Defensive Cyber Operations (DCO) enclave to detect emerging threats in the tactical environment. 4204 / Weapons Range Support Equipment - Increase provides initial spares for Fallon Range virtual construct. 4226/ Meteorological Equipment- Increase funds initial spares for Littoral Battle Space (LBS) equipment installations 5253 / Tomahawk Support Equipment - Funds initial spares to support Tactical TOMAHAWK Weapon Control Systems (TTWCS) hardware updates. 5231 / Ship Missile Support Equipment- Increase funds initial spares for support of Aegis Weapon System (AWS) Technical refresh , SSDS Blk2 upgrades and RAM MK31 Tech refresh and Ordalts 0920 / Outfitting (COSAL) Increase funds buyout of material to support expeditionary and undersea warfare equipment changes as well as buyout supply system material in support of post material support date (MSD) installations for Navy Multiband Terminal (NMT), Ship Signal Exploration Equipment (SSEE), CG Modernization, Shipboard Tactical Communications, AN/SLQ-32, Ship Missile Support Equipment, AN/ SQQ-89 SURF ASW CMBT SYS and items less than \$5M (BA-1 and BA-2). Replenishment Spares 0840 / Sub Periscope, Imaging and Supt Equip Prog - This increase will fund modules required to repair and return the MASTs to the fleet. The current MASTs that are in the fleet are aging and are failing at a higher rate. As the old mast will remain in the fleet longer, side by side the new Low Profile Photonics Mast (LPPM). 10 masts that are in need of repair. This item is an item of fleet concern. 0950 / Strategic Platform Support Equip- Funds equipment to maintain required range and depth in Trident Planned Equipment Replacement Program (TRIPER) 2136 / AN/SQQ 89 Surf ASW Cmbt Sys - Increase procures additional replenishment spares to support depot maintenance AN/SQQ-89 repair increased throughput.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts
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		
2145 / AN/BQQ-5 - Increase funds the SYSCOM managed spares required to support a higher demand in maintenance of towed arrays, which send data to AN/BQQ - 5 and related systems for processing and analysis. CT will be changed to more accurately reflect material bought and systems supported. 2210 / Submarine Acoustic Warfare System- Increase funds introduction of additional components into the replenishment line as new variants MK MOD are introduced into operation 2213 / Surface Ship Torpedo Def (SSTD))- Increase supports AN/SLQ-25 (NIXIE) and Torpedo Warning System (TWS) upgrades 2622 / Minesweeping System Replacement - Increase reflects an increase in population of fielded systems supported to include LCS and additional components as technology insertion updates are incorporated into equipment. 2624 / Shallow Water CM Ship- - Increase funds procurement of parts to complete backlog of depot maintenance 4248 / Airborne Mine Countermeasures - Increase funds procurement of parts to complete backlog of depot maintenance and increased number of ships /aircraft utilizing systems 5111 / Ship Gun Systems Equipment - Increase procures 2J equipment for the MK20 Electro-Optical Sensor System (EOSS) and MK46 Optical Sight System (OSS) to provide available assets to support Fleet casualties. 5420 / SSN Combat Control Systems - Increase to support spare due to higher usage rate. 9924 / Spares for NAVSEA- Funds changes to range and damage control and portable firefighting equipment. 9925 / Spares for NAVFAC- Funds spares for tactical vehicles and construction& maintenance equipment for expeditionary units .		

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2019 Navy					Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 08 / 1		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts			Title: OPN spares	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	FY 2019 Base (\$ M)	FY 2019 OCO (\$ M)	FY 2019 Total (\$ M)
Initial						
BA 01 - Ships Support Equipment						
0140 / Hybrid Electric Drive (HED)	-	0.468	-	0.471	-	0.471
0200 / Surface Combatant HM&E	-	0.157	-	0.227	-	0.227
0840 / Sub Periscope, Imaging and Supt Equip Prog	-	2.377	5.665	7.138	-	7.138
0900 / DDG Mod	-	12.862	15.672	0.813	-	0.813
0920 / Outfitting-COSAL	-	76.602	58.141	133.312	-	133.312
0935 / Pollution Control Equipment	-	0.078	0.129	0.044	-	0.044
0942 / Virginia Class Support Equipment	-	1.894	2.124	0.068	-	0.068
0944 / LCS Class Support Equipment	-	1.823	1.492	2.754	-	2.754
0960 / CG Modernization	-	3.588	0.680	1.248	-	1.248
0977 / Underwater EOD Programs	-	1.786	5.355	2.424	-	2.424
1600 / LCS Common Mission Modules Equipment	-	0.061	0.118	0.068	-	0.068
1601 / Unmanned Surface MCM	-	3.964	4.304	0.971	-	0.971
1602 / LCS ASW Mission Modules	-	0.080	0.506	0.578	-	0.578
1603 / LCS SUW Mission Modules	-	-	1.984	1.559	-	1.559
BA 02 - Communications & Electronics Equip						
2026 / SPQ-9B Radar	-	0.550	0.287	1.003	-	1.003
2136 / AN/SQQ-89 Surf ASW Cmbt Sys	-	2.058	0.869	3.091	-	3.091
2150 / SSN Acoustic Equipment	-	8.178	22.381	20.540	-	20.540
2210 / Submarine Acoustic Warfare System	-	0.366	2.023	0.661	-	0.661
2213 / Surface Ship Torpedo Def (SSTD)	-	0.535	0.853	0.799	-	0.799
2237 / SURTASS	-	-	2.111	2.782	-	2.782
2246 / Maritime Patrol and Reconnaissance Force	-	0.357	-	0.000	-	0.000
2312 / AN/SLQ-32	-	1.002	11.976	9.903	-	9.903
2360 / Shipboard IW Exploit	-	1.375	6.513	4.978	-	4.978
2361 / Automatic Identification System (AIS)	-	-	0.010	0.005	-	0.005
2606 / Cooperative Engagement Capability	-	1.078	1.492	0.831	-	0.831
2608 / Trusted Information System (TIS)	-	0.004	-	0.000	-	0.000
2611 / Naval Tact Cmd Supt Sys (NTCSS)	-	0.122	0.204	0.128	-	0.128
2614 / Adv Tact Data Link Sys (ATDLS)	-	0.824	5.647	1.669	-	1.669
2618 / Navy Command and Control System (NCCS)	-	0.029	0.150	0.102	-	0.102

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2019 Navy					Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 08 / 1		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts			Title: OPN spares	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	FY 2019 Base (\$ M)	FY 2019 OCO (\$ M)	FY 2019 Total (\$ M)
2622 / Minesweeping System Replacement	-	0.830	1.202	0.000	-	0.000
2624 / Shallow Water MCM	-	0.523	0.073	0.000	-	0.000
2657 / NAVSTAR GPS Receivers (Space)	-	0.062	0.061	0.149	-	0.149
2676 / Strategic Platform Support Equip	-	1.224	1.641	0.861	-	0.861
2820 / Ashore ATC Equipment	-	4.825	9.157	3.223	-	3.223
2830 / Afloat ATC Equipment	-	1.458	0.606	0.546	-	0.546
2851 / ID Systems	-	0.076	0.146	0.000	-	0.000
2867 / Joint Precision Approach and Landing System(JPALS)	-	-	-	4.137	-	4.137
2876 / Naval Mission Planning Systems	-	0.368	2.683	0.317	-	0.317
2906 / Tactical/Mobile C4I Systems	-	0.333	2.189	1.625	-	1.625
2914 / Distributed Common Ground System-Navy (DCGS-N)	-	0.403	0.511	0.157	-	0.157
2915 / CANES	-	3.023	11.645	7.250	-	7.250
2925 / CANES Intell	-	-	0.896	0.896	-	0.896
2960 / Integ Combat System Test Facility	-	0.195	0.250	0.150	-	0.150
2980 / Items less than \$5 Million	-	0.598	0.627	0.438	-	0.438
3010 / Shipboard Tactical Comms	-	0.004	0.567	0.598	-	0.598
3050 / Ship Communications Automation	-	0.023	0.665	1.062	-	1.062
3057 / Communications Items under \$5M	-	0.024	-	0.000	-	0.000
3107 / Submarine Broadcast Support	-	0.030	0.064	0.121	-	0.121
3130 / Submarine Communication Equipment	-	0.305	0.701	1.377	-	1.377
3215 / Satellite Communications Systems	-	0.056	0.021	0.127	-	0.127
3216 / Navy Multiband Terminal (NMT)	-	0.040	0.126	0.231	-	0.231
3415 / Info Systems Security Program (ISSP)	-	0.163	0.951	1.968	-	1.968
BA 03 - Aviation Support Equipment						
4204 / Weapons Range Support Equipment	-	3.820	5.329	6.762	-	6.762
4213 / Aircraft Support Equipment	-	1.189	4.387	1.413	-	1.413
4226 / Meteorological Equipment	-	0.169	0.001	0.752	-	0.752
4242 / DCRS/DPL	-	0.155	0.090	0.055	-	0.055
4248 / Legacy Airborne MCM	-	0.486	0.733	0.359	-	0.359
4268 / Aviation Support Equipment	-	0.760	-	0.000	-	0.000
BA 04 - Ordnance Support Equipment						
5111 / Ship Gun Systems Equipment	-	0.007	-	0.000	-	0.000

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2019 Navy					Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 08 / 1		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts			Title: OPN spares	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	FY 2019 Base (\$ M)	FY 2019 OCO (\$ M)	FY 2019 Total (\$ M)
5231 / Ship Missile Support Equipment	-	8.192	4.299	4.447	-	4.447
5253 / Tomahawk Support Equipment	-	0.181	0.311	0.365	-	0.365
5358 / Strategic Missile Systems Equip	-	0.140	-	0.000	-	0.000
5420 / SSN Combat Control Systems	-	1.771	4.744	1.792	-	1.792
5509 / Explosive Ordnance Disposal Equip	-	-	0.127	0.002	-	0.002
5661 / Submarine Training Device Mods	-	0.367	0.769	0.322	-	0.322
5662 / Training Device Mods	-	0.119	-	0.000	-	0.000
5664 / Surface Training Equipment	-	-	-	0.108	-	0.108
BA 05 - Civil Engineering Support Equip						
9501 / Spares for Rolling Stock	-	0.124	0.057	0.138	-	0.138
BA 07 - Personnel & Command Support Equip						
8106 / Command Support Equipment	-	0.005	0.022	0.006	-	0.006
8128 / Physical Security Equipment	-	0.309	0.119	0.000	-	0.000
8161 / Enterprise Information Technology	-	0.666	1.111	0.138	-	0.138
BA 08 - Spares and Repair Parts						
9924 / Spares for NAVSEA (For NAVSEA special programs)	-	0.277	-	0.276	-	0.276
9925 / Spares for NAVFAC (for NAVFAC special programs)	-	0.177	0.264	0.286	-	0.286
Subtotal: Initial	-	155.695	207.831	240.621	-	240.621
Replenishment						
BA 01 - Ships Support Equipment						
0840 / Sub Periscope, Imaging and Supt Equip Prog	-	2.796	4.860	6.842	-	6.842
0942 / Virginia Class Support Equipment	-	1.483	6.522	2.703	-	2.703
0950 / Strategic Platform Support Equip	-	12.473	16.237	16.545	-	16.545
1600 / LCS Common Mission Modules Equipment	-	0.882	1.340	1.216	-	1.216
BA 02 - Communications & Electronics Equip						
2130 / Surface Sonar Support Equipment	-	0.976	3.094	1.530	-	1.530
2136 / AN/SQQ-89 Surf ASW Cmbt Sys	-	4.734	0.411	7.266	-	7.266
2145 / AN/BQQ-5	-	4.769	8.449	10.403	-	10.403
2210 / Submarine Acoustic Warfare System	-	0.847	1.347	1.497	-	1.497
2213 / Surface Ship Torpedo Def (SSTD)	-	0.247	0.385	0.396	-	0.396
2237 / SURTASS	-	3.102	9.282	8.308	-	8.308
2622 / Minesweeping System Replacement	-	0.995	2.117	2.510	-	2.510

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2019 Navy					Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 08 / 1		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts			Title: OPN spares	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	FY 2019 Base (\$ M)	FY 2019 OCO (\$ M)	FY 2019 Total (\$ M)
2624 / Shallow Water MCM	-	0.038	0.077	0.142	-	0.142
BA 03 - Aviation Support Equipment						
4226 / Meteorological Equipment	-	-	2.264	1.779	-	1.779
4248 / Legacy Airborne MCM	-	1.825	2.800	10.645	-	10.645
BA 04 - Ordnance Support Equipment						
5111 / Ship Gun Systems Equipment	-	3.911	4.218	5.752	-	5.752
5253 / Tomahawk Support Equipment	-	-	0.505	0.479	-	0.479
5358 / Strategic Missile Systems Equip	-	2.961	5.529	5.439	-	5.439
5420 / SSN Combat Control Systems	-	0.339	0.653	1.030	-	1.030
5429 / ASW Support Equipment	-	1.269	1.822	1.735	-	1.735
BA 08 - Spares and Repair Parts						
9999 / All Other OPN	-	0.285	-	0.000	-	0.000
Subtotal: Replenishment	-	43.932	71.912	86.217	-	86.217
Total Cost (Initial + Replenishment)	-	199.627	279.743	326.838	-	326.838