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

February 2018



Navy

Justification Book Volume 1 of 1

Procurement of Ammo, Navy & MC

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The estimated cost for this report for the Department of the Navy (DON) is \$27,740.

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

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Department of Defense Appropriations Act, 2019

Procurement of Ammunition, Navy and Marine Corps

For construction, procurement, production, and modification of ammunition, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities, authorized by section 2854 of title 10, United States Code, and the land necessary therefor, for the foregoing purposes, 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; and other expenses necessary for the foregoing purposes, \$1,252,750,000 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 -----
Procurement of Ammo, Navy & MC	805,705	622,454	622,454	168,480
Total Department of the Navy	805,705	622,454	622,454	168,480

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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 -----
Procurement of Ammo, Navy & MC	168,480			
Total Department of the Navy	168,480			

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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 -----
Procurement of Ammo, Navy & MC	790,934		790,934
Total Department of the Navy	790,934		790,934

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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 -----
Procurement of Ammo, Navy & MC	1,006,209	246,541	1,252,750
Total Department of the Navy	1,006,209	246,541	1,252,750

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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: Procurement of Ammo, Navy & MC

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. Proc Ammo, Navy	624,805	497,689	497,689	215,769
02. Proc Ammo, MC	180,900	294,656	294,656	9,818
20. Undistributed		-169,891	-169,891	-57,107
Total Procurement of Ammo, Navy & MC	805,705	622,454	622,454	168,480

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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: Procurement of Ammo, Navy & MC

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. Proc Ammo, Navy	221,669			
02. Proc Ammo, MC	14,771			
20. Undistributed	-67,960			
Total Procurement of Ammo, Navy & MC	168,480			

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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: Procurement of Ammo, Navy & MC

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. Proc Ammo, Navy	719,358		719,358
02. Proc Ammo, MC	309,427		309,427
20. Undistributed	-237,851		-237,851
Total Procurement of Ammo, Navy & MC	790,934		790,934

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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: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
01. Proc Ammo, Navy	715,870	211,947	927,817
02. Proc Ammo, MC	290,339	34,594	324,933
20. Undistributed			
Total Procurement of Ammo, Navy & MC	1,006,209	246,541	1,252,750

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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: 1508N Procurement of Ammo, Navy & MC

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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Budget Activity 01: Proc Ammo, Navy							

Navy Ammunition							
1	General Purpose Bombs	A	190,025	34,882	34,882	74,021	U
2	JDAM	B		2492 57,343	2492 57,343	4717 106,941	U
3	Airborne Rockets, All Types	A	113,741	79,318	79,318	1,184	U
4	Machine Gun Ammunition	A	8,152	14,112	14,112		U
5	Practice Bombs	A	41,873	47,027	47,027		U
6	Cartridges & Cart Actuated Devices	A	48,510	57,718	57,718		U
7	Air Expendable Countermeasures	A	63,669	65,908	65,908	15,700	U
8	JATOS	A	2,735	2,895	2,895	540	U
9	5 Inch/54 Gun Ammunition	A	17,620	22,112	22,112		U
10	Intermediate Caliber Gun Ammunition	A	26,096	12,804	12,804		U
11	Other Ship Gun Ammunition	A	48,209	41,594	41,594	13,789	U
12	Small Arms & Landing Party Ammo	A	46,727	49,401	49,401	1,963	U
13	Pyrotechnic and Demolition	A	10,928	9,495	9,495	765	U
14	Cancelled Account Adjustments (87)	A	125				U
15	Ammunition Less Than \$5 Million	A	6,395	3,080	3,080	866	U
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Total Proc Ammo, Navy			624,805	497,689	497,689	215,769	

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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: 1508N Procurement of Ammo, Navy & MC

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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Budget Activity 01: Proc Ammo, Navy											

Navy Ammunition											
1	General Purpose Bombs	A		74,021							U
2	JDAM	B	4717	106,941							U
3	Airborne Rockets, All Types	A		1,184							U
4	Machine Gun Ammunition	A									U
5	Practice Bombs	A									U
6	Cartridges & Cart Actuated Devices	A									U
7	Air Expendable Countermeasures	A		15,700							U
8	JATOS	A		540							U
9	5 Inch/54 Gun Ammunition	A									U
10	Intermediate Caliber Gun Ammunition	A									U
11	Other Ship Gun Ammunition	A		19,689							U
12	Small Arms & Landing Party Ammo	A		1,963							U
13	Pyrotechnic and Demolition	A		765							U
14	Cancelled Account Adjustments (87)	A									U
15	Ammunition Less Than \$5 Million	A		866							U
Total Proc Ammo, Navy				221,669							

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

Appropriation: 1508N Procurement of Ammo, Navy & MC

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

Navy Ammunition									
1	General Purpose Bombs	A		108,903			108,903		U
2	JDAM	B	7209	164,284			7209	164,284	U
3	Airborne Rockets, All Types	A		80,502			80,502		U
4	Machine Gun Ammunition	A		14,112			14,112		U
5	Practice Bombs	A		47,027			47,027		U
6	Cartridges & Cart Actuated Devices	A		57,718			57,718		U
7	Air Expendable Countermeasures	A		81,608			81,608		U
8	JATOS	A		3,435			3,435		U
9	5 Inch/54 Gun Ammunition	A		22,112			22,112		U
10	Intermediate Caliber Gun Ammunition	A		12,804			12,804		U
11	Other Ship Gun Ammunition	A		61,283			61,283		U
12	Small Arms & Landing Party Ammo	A		51,364			51,364		U
13	Pyrotechnic and Demolition	A		10,260			10,260		U
14	Cancelled Account Adjustments (87)	A							U
15	Ammunition Less Than \$5 Million	A		3,946			3,946		U
			-----		-----		-----		
Total Proc Ammo, Navy				719,358			719,358		

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

Appropriation: 1508N Procurement of Ammo, Navy & MC

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: Proc Ammo, Navy									

Navy Ammunition									
1	General Purpose Bombs	A		79,871		62,530		142,401	U
2	JDAM	B	3688	87,900	3906	93,019	7594	180,919	U
3	Airborne Rockets, All Types	A		151,431		2,163		153,594	U
4	Machine Gun Ammunition	A		11,344		5,000		16,344	U
5	Practice Bombs	A		49,471				49,471	U
6	Cartridges & Cart Actuated Devices	A		56,227		5,334		61,561	U
7	Air Expendable Countermeasures	A		66,382		36,580		102,962	U
8	JATOS	A		2,907		747		3,654	U
9	5 Inch/54 Gun Ammunition	A		72,657				72,657	U
10	Intermediate Caliber Gun Ammunition	A		33,613				33,613	U
11	Other Ship Gun Ammunition	A		42,142		2,538		44,680	U
12	Small Arms & Landing Party Ammo	A		49,888				49,888	U
13	Pyrotechnic and Demolition	A		10,931		1,807		12,738	U
14	Cancelled Account Adjustments (87)	A							U
15	Ammunition Less Than \$5 Million	A		1,106		2,229		3,335	U
				-----		-----		-----	
Total Proc Ammo, Navy				715,870		211,947		927,817	

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

Appropriation: 1508N Procurement of Ammo, Navy & MC

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 02: Proc Ammo, MC							

Marine Corps Ammunition							
16	Small Arms Ammunition		31,827				U
17	40 Mm, All Types	A	13,669				U
18	60mm, All Types	A	1,901				U
19	Mortars	A		24,118	24,118	1,290	U
20	120mm, All Types	A	10,427				U
21	Direct Support Munitions	A		64,045	64,045	1,355	U
22	Infantry Weapons Ammunition	A		91,456	91,456	1,854	U
23	Rockets, All Types	A	12,905				U
24	Artillery, All Types	A	66,102				U
25	Demolition Munitions, All Types	A	1,700				U
26	Combat Support Munitions	A		11,788	11,788		U
27	Fuze, All Types	A	20,857				U
28	Ammo Modernization	A	13,396	17,862	17,862		U
29	Artillery Munitions	A		79,427	79,427	5,319	U
30	Items Less Than \$5 Million	A	8,116	5,960	5,960		U
Total Proc Ammo, MC			180,900	294,656	294,656	9,818	

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

Appropriation: 1508N Procurement of Ammo, Navy & MC

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 02: Proc Ammo, MC											

Marine Corps Ammunition											
16	Small Arms Ammunition										U
17	40 Mm, All Types	A									U
18	60mm, All Types	A									U
19	Mortars	A		1,290							U
20	120mm, All Types	A									U
21	Direct Support Munitions	A		1,355							U
22	Infantry Weapons Ammunition	A		1,854							U
23	Rockets, All Types	A									U
24	Artillery, All Types	A									U
25	Demolition Munitions, All Types	A									U
26	Combat Support Munitions	A									U
27	Fuze, All Types	A									U
28	Ammo Modernization	A									U
29	Artillery Munitions	A		10,272							U
30	Items Less Than \$5 Million	A									U
Total Proc Ammo, MC				14,771							

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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: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity Cost	S e c
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Budget Activity 02: Proc Ammo, MC						

Marine Corps Ammunition						
16	Small Arms Ammunition					U
17	40 Mm, All Types	A				U
18	60mm, All Types	A				U
19	Mortars	A	25,408		25,408	U
20	120mm, All Types	A				U
21	Direct Support Munitions	A	65,400		65,400	U
22	Infantry Weapons Ammunition	A	93,310		93,310	U
23	Rockets, All Types	A				U
24	Artillery, All Types	A				U
25	Demolition Munitions, All Types	A				U
26	Combat Support Munitions	A	11,788		11,788	U
27	Fuze, All Types	A				U
28	Ammo Modernization	A	17,862		17,862	U
29	Artillery Munitions	A	89,699		89,699	U
30	Items Less Than \$5 Million	A	5,960		5,960	U
			-----	-----	-----	
Total Proc Ammo, MC			309,427		309,427	

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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: 1508N Procurement of Ammo, Navy & MC

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 02: Proc Ammo, MC									

Marine Corps Ammunition									
16	Small Arms Ammunition								U
17	40 Mm, All Types	A							U
18	60mm, All Types	A							U
19	Mortars	A	28,266		2,018		30,284		U
20	120mm, All Types	A							U
21	Direct Support Munitions	A	63,664		632		64,296		U
22	Infantry Weapons Ammunition	A	59,295		779		60,074		U
23	Rockets, All Types	A							U
24	Artillery, All Types	A							U
25	Demolition Munitions, All Types	A							U
26	Combat Support Munitions	A	31,577		164		31,741		U
27	Fuze, All Types	A							U
28	Ammo Modernization	A	15,001				15,001		U
29	Artillery Munitions	A	86,297		31,001		117,298		U
30	Items Less Than \$5 Million	A	6,239				6,239		U
			-----		-----		-----		
Total Proc Ammo, MC			290,339		34,594		324,933		

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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: 1508N Procurement of Ammo, Navy & MC

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 20: Undistributed							

Undistributed							
31	Adj to Match Continuing Resolution	A		-169,891	-169,891	-57,107	U
			-----	-----	-----	-----	
Total Undistributed				-169,891	-169,891	-57,107	
			-----	-----	-----	-----	
Total Procurement of Ammo, Navy & MC			805,705	622,454	622,454	168,480	

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

Appropriation: 1508N Procurement of Ammo, Navy & MC

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 20: Undistributed											

Undistributed											
31	Adj to Match Continuing Resolution	A	-67,960								U
			-----		-----		-----		-----		
Total Undistributed			-67,960								
			-----		-----		-----		-----		
Total Procurement of Ammo, Navy & MC			168,480								

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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: 1508N Procurement of Ammo, Navy & MC

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 20: Undistributed						

Undistributed						
31 Adj to Match Continuing Resolution		A	-237,851		-237,851	U
			-----	-----	-----	
Total Undistributed			-237,851		-237,851	
			-----	-----	-----	
Total Procurement of Ammo, Navy & MC			790,934		790,934	

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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: 1508N Procurement of Ammo, Navy & MC

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 20: Undistributed									

Undistributed									
31	Adj to Match Continuing Resolution	A							U
			-----		-----		-----		
Total Undistributed									
			-----		-----		-----		
Total Procurement of Ammo, Navy & MC			1,006,209		246,541		1,252,750		

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Appropriation 1508N: Procurement of Ammo, Navy & MC

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27	02	01	1625	Fuze, All Types.....	Volume 1 - 365
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5 Inch/54 Gun Ammunition	0250	9	01	01.....	Volume 1 - 119
60 MM, All Types	1083	18	02	01.....	Volume 1 - 249
Air Expendable Countermeasures	0182	7	01	01.....	Volume 1 - 85
Airborne Rockets, All Types	0151	3	01	01.....	Volume 1 - 29
Ammo Modernization	1630	28	02	01.....	Volume 1 - 375
Ammunition less than \$5 million	0400	15	01	01.....	Volume 1 - 215
Artillery Munitions	1650	29	02	01.....	Volume 1 - 379
Artillery, All Types	1473	24	02	01.....	Volume 1 - 323
Cartridge Actuated Devices/Propellant Act Devices	0180	6	01	01.....	Volume 1 - 71
Combat Support Munitions	1550	26	02	01.....	Volume 1 - 351
Demolition Munitions, All Types	1500	25	02	01.....	Volume 1 - 345
Direct Support Munitions	1125	21	02	01.....	Volume 1 - 275
Fuze, All Types	1625	27	02	01.....	Volume 1 - 365
General Purpose Bombs	0145	1	01	01.....	Volume 1 - 1
Infantry Weapons Ammunition	1350	22	02	01.....	Volume 1 - 291

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
Intermediate Caliber Gun Ammo	0266	10	01	01.....	Volume 1 - 131
Items less than \$5 million	1660	30	02	01.....	Volume 1 - 397
JT Direct Attack Munition (JDAM)	0148	2	01	01.....	Volume 1 - 21
Jet Assisted Take Off (JATOs)	0194	8	01	01.....	Volume 1 - 109
Machine Gun Ammunition	0155	4	01	01.....	Volume 1 - 47
Mortars	1085	19	02	01.....	Volume 1 - 257
Other Ship Gun Ammunition	0270	11	01	01.....	Volume 1 - 141
Practice Bombs	0160	5	01	01.....	Volume 1 - 59
Pyrotechnic and Demolition	0340	13	01	01.....	Volume 1 - 197
Rockets, All Types	1471	23	02	01.....	Volume 1 - 313
Small Arms & Lndg Party Ammo	0335	12	01	01.....	Volume 1 - 163
Small Arms Ammunition	1000	16	02	01.....	Volume 1 - 225

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

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0145 / General Purpose Bombs

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>)	2,252.427	190.025	108.903	79.871	62.530	142.401	62.545	50.239	56.571	57.753	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,252.427	190.025	108.903	79.871	62.530	142.401	62.545	50.239	56.571	57.753	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,252.427	190.025	108.903	79.871	62.530	142.401	62.545	50.239	56.571	57.753	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.628 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 General Purpose (GP) bombs budget is intended to sustain munitions component inventory levels as defined in the Navy Munitions Requirement Process (NMRP) model. This model produces inventory requirements based on fleet operational scenarios and the number of weapons required to engage defined target sets. The budget also procures on-going technology integration to optimize the production and capability of products within the Direct Attack Weapons (DAW) portfolio. Inventory levels fluctuate year to year based on changes to the model as tactical targets are reassessed and weapons are expended in tactical operations and training. This variable requirement is assessed and a mean average is used to buffer out the most extreme changes.

The GP Budget procures several different categories of munition components. Bomb bodies vary in size, construction and explosive fill to provide the desired effect when employed against their targets. The flight and guidance of the bomb body is provided in three basic ways. First, a basic fixed fin stabilizes the bomb and allows the weapon to travel on a ballistic line of fall as controlled by forward movement imparted by the aircraft and gravity. Secondly, the Laser Guided components control the fall of the bomb using movable surfaces and a laser detecting devices to guide the bomb to a location on the ground illuminated by a laser designator.

The DSU-42 PLGS is a modified DSU-38 that when integrated with the JDAM BLU-109 provides an active laser sensor that detects and characterizes laser designation angle of arrival and then transmits this information to the JDAM guidance kit. This modification will enable the BLU-109 to take advantage of an already demonstrated capability on the F/A-18 for other classes of weapons. The Non-Recurring Engineering (NRE) effort was accomplished in FY2017.

All of the various weapons assemblies utilize a family of fuzes that when installed into the weapon provides a controlled initiation of the explosive fill when commanded through impact with a target or at a predetermined time. This predetermined time may occur above the ground for an explosion above the target or below the ground after impact to engage a target that is buried. There is also funding included in this budget to address a myriad of subcomponents that are used in the assembly of the various configurations, including arming wires, adapters, lugs, nose plugs and other components required for All Up Round (AUR) configurations. This budget also funds production engineering, integrated logistics, and product improvement efforts to sustain production and ongoing enhancements to ensure the weapons remain relevant in the environments they are used.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0145 / General Purpose Bombs				
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 / GP Bomb	P-5a, P-21			- / 2,252.427	- / 190.025	- / 108.903	- / 79.871	- / 62.530	- / 142.401
P-40	Total Gross/Weapon System Cost				- / 2,252.427	- / 190.025	- / 108.903	- / 79.871	- / 62.530	- / 142.401
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2019 baseline funding is required to meet Naval Munitions Requirements Process (NMRP) inventory requirements. This model produces inventory requirements based on fleet operational scenarios and the number of weapons required to engage defined target sets. The budget also procures on-going technology integration to optimize the production and capability of products within the Direct Attack Weapons (DAW) portfolio. Inventory requirements fluctuate year to year based on changes to the model as tactical targets are reassessed and weapons are expended in tactical operations and training. This variable requirement is assessed and a mean average is used buffer out the most extreme changes. This budget supports critical Navy Title 10 war reserve/operational, training and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and OPNAV INST 8011.9 (Navy Munitions Requirements Process). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces. Test requirements support the verification, fielding, safety and quality assurance of Navy weapons and equipment throughout their life cycle. Annual Non-Combat Expenditure Allowance (NCEA) prepares Naval Aviation units for deployment and is the largest cause of current and future General Purpose (GP) bombs procurement. NCEA utilization of GP bombs in support of Fleet readiness continues every year. Procurements are primarily designed to replenish the weapons used each year to achieve required readiness levels. Unlike procurement of capital assets, a large percentage of GP weapons are consumed in annual fleet training expenditures; thereby, reducing the ability to simply adjust procurements a year in response to budget reductions. Barring a reduction in fleet training expenditures and the correlating readiness degradation, any reductions in GP bombs procurements in a given year will have to be made up with increased procurements in the out years to restore inventory to a level adequate to support NCEA and fleet readiness. OCO: FY 2019 Overseas Contingency Operations (OCO) funding is required to replenish bomb components that were expended in direct support of combat operations in theater. These operations were in support of Operation Inherent Resolve.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0145 / General Purpose Bombs						Item Number / Title [DODIC]: 1 / GP Bomb						
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>				2,252.427		190.025		108.903		79.871		62.530		142.401				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				2,252.427		190.025		108.903		79.871		62.530		142.401				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				2,252.427		190.025		108.903		79.871		62.530		142.401				
(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 Cost																		
Recurring Cost																		
1.1.1) Q2191 BLU-111 ^(†)	3,654.08	7,730	28.246	5,765.84	1,096	6.319	5,884.16	4,501	26.485	-	-	0.000	6,001.84	3,028	18.174	6,001.84	3,028	18.174
1.1.2) Q2192 BLU-110 ^(†)	11,488.55	131	1.505	-	-	-	12,960.86	605	7.841	-	-	0.000	13,220.08	1,142	15.097	13,220.08	1,142	15.097
1.1.3) Q2199 BLU-109 ^(†)	29,130.06	1,284	37.403	-	-	-	30,465.00	384	11.699	-	-	0.000	31,074.30	77	2.393	31,074.30	77	2.393
1.1.4) Q2160 BLU-117 ^{(†) (1)}	-	-	-	-	-	-	-	-	-	-	-	0.000	24,529.00	222	5.445	24,529.00	222	5.445
1.1.5) Q2011 BSU-33 Con Fin ^{(†) (2)}	-	-	-	-	-	-	-	-	-	233.93	6,500	1.521	-	-	-	233.93	6,500	1.521
Subtotal: Recurring Cost	-	-	67.154	-	-	6.319	-	-	46.025	-	-	1.521	-	-	41.109	-	-	42.630
Subtotal: Hardware Cost	-	-	67.154	-	-	6.319	-	-	46.025	-	-	1.521	-	-	41.109	-	-	42.630
Hardware - Guided Bombs Cost Cost																		
Recurring Cost																		
2.1.1) Q2186 Guided Bomb Tailkits ^(†)	21,023.74	5,012	105.371	21,186.66	4,643	98.370	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) Q2230 GBU-49 Precision Kit ^{(†) (3)}	-	-	-	-	-	-	-	-	-	44,500.00	367	16.332	-	-	-	44,500.00	367	16.332
2.1.3) Q2200 Laser Capability DSU-38 ^(†)	12,270.54	8,838	108.447	13,663.59	1,059	14.470	13,923.19	1,275	17.752	-	-	0.000	14,201.53	489	6.945	14,201.53	489	6.945

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0145 / General Purpose Bombs						Item Number / Title [DODIC]: 1 / GP Bomb						
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)
2.1.4) Q2220 Laser Capability DSU-42 ^(†)	-	-	-	-	-	-	-	-	-	16,646.40	567	9.439	-	-	-	16,646.40	567	9.439
2.1.5) Q2181 Laser Guided Bombs CCG (Raytheon) ^(††)	10,000.00	1,296	12.960	14,274.00	400	5.710	8,674.00	505	4.381	8,847.48	738	6.529	8,847.48	53	0.469	8,847.48	791	6.998
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed) ^(††)	-	-	19.440	14,274.00	400	5.710	8,674.00	388	3.366	8,847.48	738	6.529	8,847.48	53	0.469	8,847.48	791	6.998
2.1.7) Q2187 Laser Guided Bombs AFG ^(†)	-	-	-	4,417.00	2,552	11.272	4,699.00	235	1.104	4,788.62	1,306	6.254	4,788.62	81	0.388	4,788.62	1,387	6.642
2.1.8) Q2197 Bombs Subcomponents ⁽⁴⁾	-	-	4.061	-	-	1.310	-	-	2.413	-	-	1.368	-	-	0.734	-	-	2.102
Subtotal: Recurring Cost	-	-	250.279	-	-	136.842	-	-	29.016	-	-	46.451	-	-	9.005	-	-	55.456
Non Recurring Cost																		
2.2.1) Q2897 GBU-49 Precision Kit Non-Recurring ⁽⁵⁾	-	-	-	-	-	-	-	-	-	-	-	4.150	-	-	-	-	-	4.150
2.2.2) Q2895 DSU-42 Laser Capability Non Recurring	-	-	20.980	-	-	20.596	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	20.980	-	-	20.596	-	-	-	-	-	4.150	-	-	-	-	-	4.150
Subtotal: Hardware - Guided Bombs Cost Cost	-	-	271.259	-	-	157.438	-	-	29.016	-	-	50.601	-	-	9.005	-	-	59.606
Hardware - Fuzes Cost Cost																		
Recurring Cost																		
3.1.1) Q2196 FMU-143	3,823.06	2,125	8.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)	1,219.89	48,443	59.095	-	-	-	2,281.79	11,197	25.549	2,327.43	8,993	20.931	2,327.43	4,065	9.461	2,327.43	13,058	30.392
3.1.3) Q2210 Hard Target Void Sensing Fuze ^(†)	10,212.00	500	5.106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	72.325	-	-	-	-	-	25.549	-	-	20.931	-	-	9.461	-	-	30.392
Non Recurring Cost																		
3.2.1) Q2896 FUZE Non Recurring	-	-	31.179	-	-	16.422	-	-	-	-	-	-	-	-	-	-	-	-
3.2.2) Q2861 Production	-	-	4.563	-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0145 / General Purpose Bombs						Item Number / Title [DODIC]: 1 / GP Bomb						
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)
Acceptance Test & Evaluation FUZE																		
Subtotal: Non Recurring Cost	-	-	35.742	-	-	17.622	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Fuzes Cost Cost	-	-	108.067	-	-	17.622	-	-	25.549	-	-	20.931	-	-	9.461	-	-	30.392
Hardware - Acceptance Testing - Guided Bombs Cost																		
Recurring Cost																		
4.1.1) Q2860 Production Acceptance Test & Evaluation Guided Bombs	-	-	23.756	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	23.756	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Acceptance Testing - Guided Bombs Cost	-	-	23.756	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - Prior Years Cost																		
Non Recurring Cost																		
5.1.1) Prior Years Cumulative Funding	-	-	1,679.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	1,679.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Prior Years Cost	-	-	1,679.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Integrated Logistics Cost																		
6.1) Q2800 GP Bombs (6)	-	-	2.008	-	-	-	-	-	0.139	-	-	0.245	-	-	-	-	-	0.245
6.2) Q2800 Guided Bombs	-	-	2.826	-	-	0.313	-	-	0.069	-	-	0.070	-	-	-	-	-	0.070
6.3) Q2800 Fuzes	-	-	1.757	-	-	0.394	-	-	0.401	-	-	0.409	-	-	-	-	-	0.409
Subtotal: Support - Integrated Logistics Cost	-	-	6.591	-	-	0.707	-	-	0.609	-	-	0.724	-	-	-	-	-	0.724
Support - Production Engineering Cost																		
7.1) Q2830 GP Bombs	-	-	20.608	-	-	1.524	-	-	2.351	-	-	1.998	-	-	2.044	-	-	4.042
7.2) Q2830 Guided Bombs	-	-	31.141	-	-	3.385	-	-	1.418	-	-	0.831	-	-	0.437	-	-	1.268
7.3) Q2830 Fuzes	-	-	20.583	-	-	2.136	-	-	2.921	-	-	2.230	-	-	0.474	-	-	2.704
Subtotal: Support - Production Engineering Cost	-	-	72.332	-	-	7.045	-	-	6.690	-	-	5.059	-	-	2.955	-	-	8.014
Support - Miscellaneous Support Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0145 / General Purpose Bombs						Item Number / Title [DODIC]: 1 / GP Bomb					
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)
8.1) Q2850 Product Improvement Program (PIP) ⁽⁷⁾	-	-	18.935	-	-	0.155	-	-	0.260	-	-	0.268	-	-	-	-	-	0.268
8.2) Q2892 Non-Standard Items ⁽⁸⁾	-	-	1.554	-	-	0.245	-	-	0.250	-	-	0.255	-	-	-	-	-	0.255
8.3) Q2893 Remanufacture Components	-	-	1.494	-	-	0.230	-	-	0.235	-	-	0.238	-	-	-	-	-	0.238
8.4) Q2894 Gaging	-	-	1.595	-	-	0.264	-	-	0.269	-	-	0.274	-	-	-	-	-	0.274
Subtotal: Support - Miscellaneous Support Cost	-	-	23.578	-	-	0.894	-	-	1.014	-	-	1.035	-	-	-	-	-	1.035
Gross/Weapon System Cost	-	-	2,252.427	-	-	190.025	-	-	108.903	-	-	79.871	-	-	62.530	-	-	142.401

(t) indicates the presence of a P-5a

Footnotes:

⁽¹⁾ Q2160 BLU-117 is a 2,000 pound general purpose bomb body. OCO funding is planned for this procurement in FY19 only.

⁽²⁾ Q2011 BSU-33 is a required inventory item necessary to complete end item configurations of the unguided Free Fall General Purpose Bomb.

⁽³⁾ Q2230 GBU-49 was identified by USMC as a Direct Attack Moving Target weapon for the F-35B in support of Marine Expeditionary Unit Deployment .

⁽⁴⁾ Q2197 Bomb sub-components (MXU-735, Lanyards, Lugs, M72; M73; M74 cables, FUZE accessory kits, miscellaneous hardware) procured out of this are required for assembly of BLU-109, BLU-110 and BLU-111 bomb bodies into end item configuration weapons such as Free fall unguided bombs, Laser Guided Bombs (LGB) and Joint Direct Attack Munitions (JDAM).

⁽⁵⁾ Q2897 GBU-49 NRE is required to establish limited logistic infrastructure to support the procurement and delivery of the end item.

⁽⁶⁾ Q2800 GP Bombs Integrated Logistics baseline funding is required for FY2019 to support the deliveries.

⁽⁷⁾ Q2850 Product Improvement Program (PIP) includes Universal Armament Interface (UAI) updates incorporated in the fuze and guided bomb components. Also includes Insensitive Munitions (IM) compliance for GP Bombs.

⁽⁸⁾ Q2892 Non-Standard Items procured out of this are Control Surfaces, Bands, Strakes, Aero Panels, Dunnage and Packaging required to support General Purpose Bomb All-Up-Round (AUR) configurations.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0145 / General Purpose Bombs					Item Number / Title [DODIC]: 1 / GP Bomb			
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
1.1.1) Q2191 BLU-111 ^(†)		2017	General Dynamics BLU-111 / Garland, TX/MCAAP	C / FP	JMC Rock Island, IL	May 2017	May 2020	1,096	5,765.84	Y		Jun 2014
1.1.1) Q2191 BLU-111 ^(†)	✓	2018	General Dynamics BLU-111 / Garland, TX/MCAAP	C / FP	JMC Rock Island, IL	May 2018	May 2021	4,501	5,884.16	Y		Jun 2014
1.1.1) Q2191 BLU-111 ^(†)	✓	2019	General Dynamics BLU-111 / Garland, TX/MCAAP	C / FP	JMC Rock Island, IL	May 2019	May 2022	3,028	6,001.84	Y		Jun 2014
1.1.2) Q2192 BLU-110 ^(†)	✓	2018	General Dynamics BLU-110 / Garland TX/MCAAP	C / FP	JMC Rock Island, IL	Jul 2018	Jul 2021	605	12,960.86	Y		Mar 2014
1.1.2) Q2192 BLU-110 ^(†)	✓	2019	General Dynamics BLU-110 / Garland TX/MCAAP	C / FP	JMC Rock Island, IL	Jul 2019	Jul 2022	1,142	13,220.08	Y		Mar 2014
1.1.3) Q2199 BLU-109 ^(†)		2015	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	Feb 2016	Dec 2019	77	25,995.00	Y		Dec 2014
1.1.3) Q2199 BLU-109 ^(†)	✓	2018	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	Feb 2018	Dec 2021	384	30,465.00	Y		Dec 2014
1.1.3) Q2199 BLU-109 ^(†)	✓	2019	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	Feb 2019	Dec 2022	77	31,074.30	Y		Dec 2014
1.1.4) Q2160 BLU-117 ^(†)	✓	2019	General Dynamics BLU-117 / Garland TX/MCAAP	C / FP	JMC Rock Island, IL	Jun 2019	Mar 2022	222	24,529.00	Y		Feb 2016
1.1.5) Q2011 BSU-33 Con Fin ^(†)		2019	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	JMC Rock Island, IL	Feb 2019	Feb 2020	6,500	233.93	Y		Sep 2015
2.1.1) Q2186 Guided Bomb Tailkits ^(†)	✓	2017	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	C / FPIF	AFLCMC Hill AFB	Feb 2017	Mar 2018	4,643	21,186.66	Y		Oct 2013
2.1.2) Q2230 GBU-49 Precision Kit ^(†)		2019	Raytheon Missile Systems / Albuquerque, New Mexico	C / FFP	NAVAIR, Pax River, MD	Nov 2018	Aug 2020	367	44,500.00	Y		Jun 2018
2.1.3) Q2200 Laser Capability DSU-38 ^(†)		2016	The Boeing Company DSU-38 / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2016	Mar 2017	1,016	13,422.00	Y		Jan 2015
2.1.3) Q2200 Laser Capability DSU-38 ^(†)		2017	The Boeing Company DSU-38 / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2017	Mar 2018	1,059	13,663.59	Y		Jan 2015
2.1.3) Q2200 Laser Capability DSU-38 ^(†)		2018	The Boeing Company DSU-38 / St. Charles, MO	SS / IDDQ	NAVAIR, Pax River, MD	Mar 2018	Mar 2019	521	13,923.19	Y		Jan 2015
2.1.3) Q2200 Laser Capability DSU-38 ^(†)	✓	2018	The Boeing Company DSU-38 / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2018	Mar 2019	754	13,923.19	Y		Jan 2015
2.1.3) Q2200 Laser Capability DSU-38 ^(†)	✓	2019	The Boeing Company DSU-38 / St. Charles, MO	SS / IDDQ	NAVAIR, Pax River, MD	Mar 2019	Mar 2020	489	14,201.53	Y		Jan 2015
2.1.4) Q2220 Laser Capability DSU-42 ^(†)		2019	The Boeing Company DSU-42 / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2019	Jan 2022	567	16,646.40	Y		Aug 2017

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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
2.1.5) Q2181 Laser Guided Bombs CCG (Raytheon) ^(†)		2017	Raytheon Missile Systems LGB (Raytheon) / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2017	Mar 2019	400	14,274.00	Y		Jan 2014
2.1.5) Q2181 Laser Guided Bombs CCG (Raytheon) ^(†)		2018	Raytheon Missile Systems LGB (Raytheon) / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2018	Mar 2020	388	8,674.00	Y		Jan 2014
2.1.5) Q2181 Laser Guided Bombs CCG (Raytheon) ^(†)	✓	2018	Raytheon Missile Systems LGB (Raytheon) / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2018	Mar 2020	117	8,674.00	Y		Jan 2014
2.1.5) Q2181 Laser Guided Bombs CCG (Raytheon) ^(†)		2019	Raytheon Missile Systems LGB (Raytheon) / Tucson, AZ	C / IDDQ	Hill AFB, UT	Jul 2019	Mar 2021	738	8,847.48	Y		Jan 2014
2.1.5) Q2181 Laser Guided Bombs CCG (Raytheon) ^(†)	✓	2019	Raytheon Missile Systems LGB (Raytheon) / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2019	Mar 2021	53	8,847.48	Y		Jan 2014
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed) ^(†)		2017	Lockheed Martin Corporation LGB / Archbald, PA	C / IDIQ	Hill AFB, UT	Jul 2017	Mar 2019	400	14,274.00	Y		Jan 2014
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed) ^(†)		2018	Lockheed Martin Corporation LGB / Archbald, PA	C / IDIQ	Hill AFB, UT	Jul 2018	Mar 2020	388	8,674.00	Y		Jan 2014
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed) ^(†)		2019	Lockheed Martin Corporation LGB / Archbald, PA	C / IDIQ	Hill AFB, UT	Jul 2019	Mar 2021	738	8,847.48	Y		Jan 2014
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed) ^(†)	✓	2019	Lockheed Martin Corporation LGB / Archbald, PA	C / IDIQ	Hill AFB, UT	Jul 2019	Mar 2021	53	8,847.48	Y		Jan 2014
2.1.7) Q2187 Laser Guided Bombs AFG ^(†)		2017	Raytheon Missile Systems LGB (Raytheon)AFG / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2017	Mar 2019	2,552	4,417.00	Y		Jan 2012
2.1.7) Q2187 Laser Guided Bombs AFG ^(†)		2018	Raytheon Missile Systems LGB (Raytheon)AFG / Tucson, AZ	C / IDIQ	Hill AFB, UT	Oct 2017	Jun 2019	118	4,699.00	N		Jan 2012
2.1.7) Q2187 Laser Guided Bombs AFG ^(†)	✓	2018	Raytheon Missile Systems LGB (Raytheon)AFG / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2018	Mar 2020	117	4,699.00	Y		Jan 2012
2.1.7) Q2187 Laser Guided Bombs AFG ^(†)		2019	Raytheon Missile Systems LGB (Raytheon)AFG / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2019	Mar 2021	1,306	4,788.62	Y		Jan 2012
2.1.7) Q2187 Laser Guided Bombs AFG ^(†)	✓	2019	Raytheon Missile Systems LGB (Raytheon)AFG / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2019	Mar 2021	81	4,788.62	Y		Jan 2012
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)		2014	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2015	Mar 2018	2,178	2,027.21	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)	✓	2015	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2015	Mar 2018	3,746	2,027.21	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)		2016	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Jul 2017	Jul 2019	1,610	2,237.05	Y		Mar 2014

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Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0145 / General Purpose Bombs					Item Number / Title [DODIC]: 1 / GP Bomb				
Cost Elements	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
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)		2018	ORBITAL ATK / Rocket Center, WV	SS / FFP	NAVAIR, Pax River, MD	Mar 2018	Mar 2019	6,359	2,281.79	Y		Mar 2015
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)	✓	2018	ORBITAL ATK / Rocket Center, WV	SS / FFP	NAVAIR, Pax River, MD	Mar 2018	Mar 2019	4,838	2,281.79	Y		Mar 2015
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)		2019	ORBITAL ATK / Rocket Center, WV	SS / FFP	NAVAIR, Pax River, MD	Mar 2019	Mar 2020	8,993	2,327.43	Y		Mar 2015
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)	✓	2019	ORBITAL ATK / Rocket Center, WV	SS / FFP	NAVAIR, Pax River, MD	Mar 2019	Mar 2020	4,065	2,327.43	Y		Mar 2015
3.1.3) Q2210 Hard Target Void Sensing Fuze ^(†)		2016	ATK Tactical Systems (HTVSF) / Keyser, WV	C / FFP	Eglin AFB, FL	Aug 2017	Aug 2018	450	11,346.00	Y		Nov 2012
^(†) indicates the presence of a P-21												

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Cost Elements (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					
Prior Years Deliveries: 1296																																				
	10	2017	NAVY	400	0	400																											400			
	10	2018	NAVY	388	0	388																											388			
✓	10	2018	NAVY	117	0	117																											117			
	10	2019	NAVY	738	0	738																											738			
✓	10	2019	NAVY	53	0	53																											53			
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed)																																				
	11	2017	NAVY	400	0	400																											400			
	11	2018	NAVY	388	0	388																											388			
	11	2019	NAVY	738	0	738																											738			
✓	11	2019	NAVY	53	0	53																											53			
2.1.7) Q2187 Laser Guided Bombs AFG																																				
	12	2017	NAVY	2,552	0	2,552																											2,552			
	12	2018	NAVY	118	0	118																											118			
✓	12	2018	NAVY	117	0	117																											117			
	12	2019	NAVY	1,306	0	1,306																											1,306			
✓	12	2019	NAVY	81	0	81																											81			
3.1.2) Q2032 FMU-139 Electrical Fuze																																				
Prior Years Deliveries: 40909																																				
	13	2014	NAVY	2,178	0	2,178											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,178	
✓	13	2015	NAVY	3,746	0	3,746											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,746
	13	2016	NAVY	1,610	0	1,610																											1,610			
	14	2018	NAVY	6,359	0	6,359																											6,359			
✓	14	2018	NAVY	4,838	0	4,838																											4,838			
	14	2019	NAVY	8,993	0	8,993																											8,993			
✓	14	2019	NAVY	4,065	0	4,065																											4,065			
3.1.3) Q2210 Hard Target Void Sensing Fuze																																				
Prior Years Deliveries: 50																																				
	15	2016	NAVY	450	0	450																											450			
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0145 / General Purpose Bombs										Item Number / Title [DODIC]: 1 / GP Bomb											
Cost Elements (Units in Each)							Fiscal Year 2017										Fiscal Year 2018													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	BAL D U E A S O F 1 O C T	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
Prior Years Deliveries: 1296																															
	10	2017	NAVY	400	0	400														A -	-	-	-	-	-	-	-	-	-	-	400
	10	2018	NAVY	388	0	388																						A -	-	-	388
✓	10	2018	NAVY	117	0	117																						A -	-	-	117
	10	2019	NAVY	738	0	738																									738
✓	10	2019	NAVY	53	0	53																									53
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed)																															
	11	2017	NAVY	400	0	400														A -	-	-	-	-	-	-	-	-	-	-	400
	11	2018	NAVY	388	0	388																						A -	-	-	388
	11	2019	NAVY	738	0	738																									738
✓	11	2019	NAVY	53	0	53																									53
2.1.7) Q2187 Laser Guided Bombs AFG																															
	12	2017	NAVY	2,552	0	2,552														A -	-	-	-	-	-	-	-	-	-	-	2,552
	12	2018	NAVY	118	0	118														A -	-	-	-	-	-	-	-	-	-	-	118
✓	12	2018	NAVY	117	0	117																						A -	-	-	117
	12	2019	NAVY	1,306	0	1,306																									1,306
✓	12	2019	NAVY	81	0	81																									81
3.1.2) Q2032 FMU-139 Electrical Fuze																															
Prior Years Deliveries: 40909																															
	13	2014	NAVY	2,178	0	2,178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	180	180	180	180	180	180	1,000
✓	13	2015	NAVY	3,746	0	3,746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146	200	300	300	400	400	400	1,600
	13	2016	NAVY	1,610	0	1,610														A -	-	-	-	-	-	-	-	-	-	-	1,610
	14	2018	NAVY	6,359	0	6,359																		A -	-	-	-	-	-	-	6,359
✓	14	2018	NAVY	4,838	0	4,838																		A -	-	-	-	-	-	-	4,838
	14	2019	NAVY	8,993	0	8,993																									8,993
✓	14	2019	NAVY	4,065	0	4,065																									4,065
3.1.3) Q2210 Hard Target Void Sensing Fuze																															
Prior Years Deliveries: 50																															
	15	2016	NAVY	450	0	450													A -	-	-	-	-	-	-	-	-	-	-	40	370
							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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Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0145 / General Purpose Bombs													Item Number / Title [DODIC]: 1 / GP Bomb															
Cost Elements (Units in Each)							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								
Prior Years Deliveries: 1296																																						
	10	2017	NAVY	400	0	400	-	-	-	-	-	200	200															0										
	10	2018	NAVY	388	0	388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	100	88			0									
✓	10	2018	NAVY	117	0	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117						0									
	10	2019	NAVY	738	0	738														A	-	-	-	-	-	-	-	-	-	-	-	-	-	738				
✓	10	2019	NAVY	53	0	53														A	-	-	-	-	-	-	-	-	-	-	-	-	-	53				
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed)																																						
	11	2017	NAVY	400	0	400	-	-	-	-	-	200	200															0										
	11	2018	NAVY	388	0	388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	100	100	100	80								
	11	2019	NAVY	738	0	738														A	-	-	-	-	-	-	-	-	-	-	-	-	738					
✓	11	2019	NAVY	53	0	53														A	-	-	-	-	-	-	-	-	-	-	-	-	-	53				
2.1.7) Q2187 Laser Guided Bombs AFG																																						
	12	2017	NAVY	2,552	0	2,552	-	-	-	-	-	212	212	212	212	212	212	212	212	212	212	220							0									
	12	2018	NAVY	118	0	118	-	-	-	-	-	-	-	118														0										
✓	12	2018	NAVY	117	0	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117						0										
	12	2019	NAVY	1,306	0	1,306														A	-	-	-	-	-	-	-	-	-	-	-	-	1,306					
✓	12	2019	NAVY	81	0	81														A	-	-	-	-	-	-	-	-	-	-	-	-	-	81				
3.1.2) Q2032 FMU-139 Electrical Fuze																																						
Prior Years Deliveries: 40909																																						
	13	2014	NAVY	2,178	1,178	1,000	200	200	200	200	200																	0										
✓	13	2015	NAVY	3,746	2,146	1,600	400	400	400	400																	0											
	13	2016	NAVY	1,610	0	1,610	-	-	-	-	-	-	-	136	134	134	134	134	134	134	134	134	134	134	134	134	134			0								
	14	2018	NAVY	6,359	0	6,359	-	-	-	-	-	529	529	529	529	529	529	526	529	529	529	543						0										
✓	14	2018	NAVY	4,838	0	4,838	-	-	-	-	-	405	403	403	403	403	403	403	403	403	403	403						0										
	14	2019	NAVY	8,993	0	8,993														A	-	-	-	-	-	-	-	-	-	754	749	749	749	749	749	749	3,745	
✓	14	2019	NAVY	4,065	0	4,065														A	-	-	-	-	-	-	-	-	-	-	347	338	338	338	338	338	338	1,690
3.1.3) Q2210 Hard Target Void Sensing Fuze																																						
Prior Years Deliveries: 50																																						
	15	2016	NAVY	450	80	370	40	40	40	40	40	40	40	40	40	10													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								

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018										
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0145 / General Purpose Bombs										Item Number / Title [DODIC]: 1 / GP Bomb													
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021										Fiscal Year 2022													B A L A N C E			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT				Calendar Year 2021										Calendar Year 2022													
							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		
1.1.1) Q2191 BLU-111																																	
Prior Years Deliveries: 7730																																	
	1	2017	NAVY	1,096	455	641	91	91	91	91	91	91	95																				0
✓	1	2018	NAVY	4,501	0	4,501	-	-	-	-	-	-	-	375	375	375	375	375	375	375	375	375	375	376								0	
✓	1	2019	NAVY	3,028	0	3,028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	252	252	252	252	252	1,768			
1.1.2) Q2192 BLU-110																																	
Prior Years Deliveries: 131																																	
✓	2	2018	NAVY	605	0	605	-	-	-	-	-	-	-	-	55	50	50	50	50	50	50	50	50	50	50	50	50				0		
✓	2	2019	NAVY	1,142	0	1,142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	95	95	855			
1.1.3) Q2199 BLU-109																																	
Prior Years Deliveries: 1207																																	
	3	2015	NAVY	77	77	0																											0
✓	3	2018	NAVY	384	0	384	-	-	-	-	-	-	-	-	-	-	-	-	-	80	80	80	80	64								0	
✓	3	2019	NAVY	77	0	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77			
1.1.4) Q2160 BLU-117 ⁽¹⁾																																	
✓	4	2019	NAVY	222	0	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	19	18	18	18	18	91			
1.1.5) Q2011 BSU-33 Con Fin ⁽²⁾																																	
	5	2019	NAVY	6,500	4,328	2,172	541	541	541	549																						0	
2.1.1) Q2186 Guided Bomb Tailkits																																	
Prior Years Deliveries: 5012																																	
✓	6	2017	NAVY	4,643	4,643	0																											0
2.1.2) Q2230 GBU-49 Precision Kit ⁽³⁾																																	
	7	2019	NAVY	367	67	300	30	30	30	30	30	30	30	30	30																		0
2.1.3) Q2200 Laser Capability DSU-38																																	
Prior Years Deliveries: 7822																																	
	8	2016	NAVY	1,016	1,016	0																											0
	8	2017	NAVY	1,059	1,059	0																											0
	8	2018	NAVY	521	521	0																											0
✓	8	2018	NAVY	754	754	0																											0
✓	8	2019	NAVY	489	289	200	40	40	40	40	40																						0
2.1.4) Q2220 Laser Capability DSU-42																																	
	9	2019	NAVY	567	0	567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	48	48	47	45	45	45	45	45	135		
2.1.5) Q2181 Laser Guided Bombs CCG (Raytheon)																																	
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0145 / General Purpose Bombs										Item Number / Title [DODIC]: 1 / GP Bomb												
Cost Elements (Units in Each)							Fiscal Year 2021										Fiscal Year 2022										BALANCE					
OCO	MFR #	FY	SERVICE	PROQTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021										Calendar Year 2022															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP	
Prior Years Deliveries: 1296																																
	10	2017	NAVY	400	400	0																										0
	10	2018	NAVY	388	388	0																										0
✓	10	2018	NAVY	117	117	0																										0
	10	2019	NAVY	738	0	738	-	-	-	-	-	80	80	80	50	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	0	
✓	10	2019	NAVY	53	0	53	-	-	-	-	-	5	5	5	5	5	5	4	4	4	5	3	3						0			
2.1.6) Q2181 Laser Guided Bombs CCG (Lockheed)																																
	11	2017	NAVY	400	400	0																										0
	11	2018	NAVY	388	308	80	80																									0
	11	2019	NAVY	738	0	738	-	-	-	-	-	63	63	63	63	63	63	63	63	63	63	56	52						0			
✓	11	2019	NAVY	53	0	53	-	-	-	-	-	53																				0
2.1.7) Q2187 Laser Guided Bombs AFG																																
	12	2017	NAVY	2,552	2,552	0																										0
	12	2018	NAVY	118	118	0																										0
✓	12	2018	NAVY	117	117	0																										0
	12	2019	NAVY	1,306	0	1,306	-	-	-	-	-	113	113	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	0		
✓	12	2019	NAVY	81	0	81	-	-	-	-	-	81																				0
3.1.2) Q2032 FMU-139 Electrical Fuze																																
Prior Years Deliveries: 40909																																
	13	2014	NAVY	2,178	2,178	0																										0
✓	13	2015	NAVY	3,746	3,746	0																										0
	13	2016	NAVY	1,610	1,610	0																										0
	14	2018	NAVY	6,359	6,359	0																										0
✓	14	2018	NAVY	4,838	4,838	0																										0
	14	2019	NAVY	8,993	5,248	3,745	749	749	749	749	749																					0
✓	14	2019	NAVY	4,065	2,375	1,690	338	338	338	338	338																					0
3.1.3) Q2210 Hard Target Void Sensing Fuze																																
Prior Years Deliveries: 50																																
	15	2016	NAVY	450	450	0																										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: 1508N / 01 / 1					P-1 Line Item Number / Title: 0145 / General Purpose Bombs				Item Number / Title [DODIC]: 1 / GP Bomb		

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	General Dynamics BLU-111 - Garland, TX/MCAAP	21,359	38,544	100,200	0	10	24	34	0	8	36	44
2	General Dynamics BLU-110 - Garland TX/MCAAP	12,222	21,300	55,296	0	9	24	33	0	10	36	46
3	National Forge BLU-109 - Irving, PA/MCAPP	1,344	2,232	6,480	0	12	24	36	0	5	41	46
4	General Dynamics BLU-117 - Garland TX/MCAAP	400	1,200	7,400	0	9	33	42	0	9	33	42
5	CAPCO, INC - GRAND JUNCTION, CO	5,000	10,000	12,000	0	5	12	17	0	5	12	17
6	The Boeing Company Guided Bombs (Tailkits) - St. Charles, MO	4,000	10,000	36,000	0	12	12	24	0	5	12	17
7	Raytheon Missile Systems - Albuquerque, New Mexico	2,000	5,000	8,000	0	2	16	18	0	0	0	0
8	The Boeing Company DSU-38 - St. Charles, MO	1,200	4,800	5,760	0	6	12	18	0	6	12	18
9	The Boeing Company DSU-42 - St. Charles, MO	1,200	4,800	5,760	0	6	12	18	0	6	12	18
10	Raytheon Missile Systems LGB (Raytheon) - Tucson, AZ	1,800	4,800	14,400	0	7	20	27	0	10	20	30
11	Lockheed Martin Corporation LGB - Archbald, PA	1,728	4,500	36,000	0	7	20	27	0	10	20	30
12	Raytheon Missile Systems LGB (Raytheon)AFG - Tucson, AZ	1,800	4,800	14,400	0	7	20	27	0	10	20	30
13	L-3 FUZING & ORDNANCE SYSTEMS INC - CINCINNATI, OH	6,000	10,000	20,000	0	0	0	0	0	6	24	30
14	ORBITAL ATK - Rocket Center, WV	2,000	50,000	50,000	0	6	12	18	0	6	12	18
15	ATK Tactical Systems (HTVSF) - Keyser, WV	166	773	992	0	10	12	22	0	23	12	35

"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: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)					
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: 503												
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>)	-	-	7,209	3,688	3,906	7,594	2,844	2,865	3,108	3,246	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	164.284	87.900	93.019	180.919	70.472	72.388	79.903	85.006	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	164.284	87.900	93.019	180.919	70.472	72.388	79.903	85.006	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	164.284	87.900	93.019	180.919	70.472	72.388	79.903	85.006	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2019 funding request was reduced by \$0.187 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 Joint Direct Attack Munition (JDAM) program is a joint Air Force/Navy program with the Air Force as the lead service. Designated ACAT 1C, this program upgrades the existing inventory of general purpose bombs (BLU-111, BLU-117, BLU-110, BLU-109, and BLU-126) by integrating the bombs with a field installed guidance kit using a Global Positioning System-aided Inertial Navigation System (GPS/INS). JDAM provides an accurate, adverse weather capability. JDAM is integrated with the B-52H, B-2A, B-1B, F-16 (all variants), F/A-18A+/C/D/E/F, F-15E, AV-8B, A-10C and F-22A aircraft. Integration with the MQ-9 and F-35 are in progress. JDAM guides the bomb with movable surfaces that steer the bomb to a target based on a Global Positioning Satellite (GPS) coordinate. There is also a family of weapons which combine GPS and laser capabilities to provide a Dual Mode weapon (procured under 0145 General Purpose Bombs): Laser Joint Direct Attack Munition (LJDAM). The component that is added to the 500 lb JDAM to provide the Laser capability is the DSU-38. The DSU-38 Precision Laser Guidance Set (PLGS) contains a Semi-Active Laser to engage moving and stationary targets and an adjustable proximity sensor to provide an airburst capability. LJDAM is the material solution for the Direct Attack Moving Target Capability (DAMTC). Pursuant to section 2308 of Title 10, U.S. Code, this program will seek cost efficiencies where available through production lot negotiations.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)				
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: 503										
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 / JT Direct Attack Munition (JDAM) Tail Kit	P-5a, P-21			- / 0.000	- / 0.000	7,209 / 164.284	3,688 / 87.900	3,906 / 93.019	7,594 / 180.919
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	7,209 / 164.284	3,688 / 87.900	3,906 / 93.019	7,594 / 180.919
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY2019 baseline funding is required to meet Naval Munitions Requirements Process (NMRP) inventory objectives. Baseline funds procure a total of 3,688 JDAM tail kits. OCO: FY2019 Overseas Contingency Operations (OCO) funding is required to replenish JDAM expended in direct support of Operation Inherent Resolve (OIR). FY19 OCO request also includes projected expenditures for JDAM. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)						Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit					
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 (Units in Each)				-		-		7,209		3,688		3,906		7,594				
Gross/Weapon System Cost (\$ in Millions)				0.000		0.000		164.284		87.900		93.019		180.919				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				0.000		0.000		164.284		87.900		93.019		180.919				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				0.000		0.000		164.284		87.900		93.019		180.919				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		22,788.74		23,834.06		23,814.39		23,823.94				
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 Cost																		
Recurring Cost																		
1.1.1) JD500-JDAM Tail Kit ^(†) (1)	-	-	-	-	-	-	23,000.00	7,026	161.598	23,460.00	3,688	86.520	23,460.00	3,906	91.635	23,460.00	7,594	178.155
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	161.598	-	-	86.520	-	-	91.635	-	-	178.155
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	161.598	-	-	86.520	-	-	91.635	-	-	178.155
Support Cost																		
2.1) JD800-Support - Integrated Logistics	-	-	-	-	-	-	-	-	0.250	-	-	0.252	-	-	-	-	-	0.252
2.2) JD830-Support - Production Engineering (2)	-	-	-	-	-	-	-	-	1.200	-	-	0.510	-	-	0.714	-	-	1.224
2.3) JD850-Support - Miscellaneous Support (3)	-	-	-	-	-	-	-	-	1.236	-	-	0.618	-	-	0.670	-	-	1.288
Subtotal: Support Cost	-	-	-	-	-	-	-	-	2.686	-	-	1.380	-	-	1.384	-	-	2.764
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	22,788.74	7,209	164.284	23,834.06	3,688	87.900	23,814.39	3,906	93.019	23,823.94	7,594	180.919
^(†) indicates the presence of a P-5a																		
Footnotes:																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)	Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(1) Q2186 JDAM Tail Kit procurement in FY2019 (Base and OOC funding) is based on the Naval Munitions Requirements Process (NMRP) model which addresses fleet inventory requirements. The OCO funding is required to support the reset of bomb components expended in combat operations. (2) JD830-Support - Production Engineering was reduced due to refinement of the scope of tasking in support of JDAM production. (3) QJD850 Miscellaneous Support includes parts obsolescence, associated production acceptance and test, ancillary support equipment cost and product improvement. Increased Miscellaneous support line through FY23 to account for the clarification to the Miscellaneous support end items.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)				Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit				

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
1.1.1) JD500-JDAM Tail Kit ^(†)		2018	The Boeing Company / St. Charles, MO	SS / FPIF	AFLCMC Hill AFB	Feb 2018	Mar 2019	2,446	23,000.00	Y		Oct 2013
1.1.1) JD500-JDAM Tail Kit ^(†)	✓	2018	The Boeing Company / St. Charles, MO	SS / FPIF	AFLCMC Hill AFB	Feb 2018	Mar 2019	4,580	23,000.00	Y		Oct 2013
1.1.1) JD500-JDAM Tail Kit ^(†)		2019	The Boeing Company / St. Charles, MO	SS / FPIF	AFLCMC Hill AFB	Feb 2019	Mar 2020	3,688	23,460.00	Y		Jul 2017
1.1.1) JD500-JDAM Tail Kit ^(†)	✓	2019	The Boeing Company / St. Charles, MO	SS / FPIF	AFLCMC Hill AFB	Feb 2019	Mar 2020	3,906	23,460.00	Y		Jul 2017

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018															
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)													Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2018													Fiscal Year 2019													B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019															
							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					
1.1.1) JD500-JDAM Tail Kit ⁽¹⁾																																			
	1	2018	NAVY	2,446	0	2,446				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	204	204	204	204	205	205	205	1,015				
✓	1	2018	NAVY	4,580	0	4,580				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	390	390	390	390	390	390	390	1,850				
	1	2019	NAVY	3,688	0	3,688																A -	-	-	-	-	-	-	-	-	-	-	-	3,688	
✓	1	2019	NAVY	3,906	0	3,906																A -	-	-	-	-	-	-	-	-	-	-	-	-	3,906
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)										Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit												
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2020										Fiscal Year 2021														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021															
							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		
1.1.1) JD500-JDAM Tail Kit ⁽¹⁾																																
	1	2018	NAVY	2,446	1,431	1,015	205	205	200	206	199																					0
✓	1	2018	NAVY	4,580	2,730	1,850	390	390	390	390	290																					0
	1	2019	NAVY	3,688	0	3,688	-	-	-	-	-	307	307	307	307	307	307	307	307	307	307	311								0		
✓	1	2019	NAVY	3,906	0	3,906	-	-	-	-	-	364	322	322	322	322	322	322	322	322	322	322								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: 1508N / 01 / 1			P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)			Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit	

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	The Boeing Company - St. Charles, MO	7,501	18,900	42,000	0	0	0	0	15	5	13	18

"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: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: 0204162N, 0206138M				
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>)	1,034.508	113.741	80.502	151.431	2.163	153.594	85.697	89.028	91.578	93.532	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,034.508	113.741	80.502	151.431	2.163	153.594	85.697	89.028	91.578	93.532	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,034.508	113.741	80.502	151.431	2.163	153.594	85.697	89.028	91.578	93.532	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.052 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.

Combat and training inventory requirements of rocket and rocket components establish the Total Munitions Requirement (TMR) in accordance with the Naval Munitions Requirements process (NMRP). Production is for complete units/operationally configured units to satisfy the requirement of applicable specifications of Airborne Rockets, All types.

The 2.75-inch and 5.00-inch rockets variants are employed by both rotary and fixed wing platforms in the Close Air Support (CAS), Military Operations in Urban Terrain (MOUT), and counter-Fast Attack Craft/ Fast Inshore Attack Craft (counter-FAC/FIAC) mission areas.

The M282 Multi-Purpose Penetrator (MPP) warhead provides the Combatant Commanders greatly enhanced weaponizing options to engage targets protected by urban and cave environments. After completing a planned product improvement initiative, the M282 will be certified for fielding with the Advanced Precision Kill Weapon System (APKWS) guidance section. The M282 is a low-cost penetrator warhead that addresses an urgent need for continuing Overseas Contingency Operations and will directly improve aviation fire support to the Marine Air-Ground Task Force.

The MK152 warhead significantly improves the Insensitive Munitions (IM) reaction characteristics over the M151 warhead; greatly increasing safety and reducing restrictions on Marine Corps and Navy shipboard operations. MK152 warheads are authorized for shipboard operations with Advanced Precision Kill Weapon System (APKWS) guidance sections. Overseas Contingency Operations funding provides replenishment of warhead inventory expended in combat.

Rocket Launchers provides for 2.75 Inch Rocket Launchers including the LAU-61 G/A Digital Rocket Launcher (DRL) and LAU-68 F/A.

Advanced Precision Kill Weapon System (APKWS) is a DoN-led System Development and Demonstration (SD&D) program to develop and integrate a low-cost Semi Active Laser (SAL) guidance section to enhance the precision of 2.75-inch unguided rockets. APKWS is a small, lightweight, mid-body guidance section that can be assembled with existing unguided rocket components (Mk 66 Mod 4 rocket motors and M151/MK152/M282 warheads), and can be fired from 2.75-inch rocket launchers. Compared to unguided rockets, APKWS offers greater precision, increased stored kills per aircraft sortie, reduced collateral damage, and improved effectiveness against soft and lightly armored targets from standoff ranges to enhance crew survivability.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0204162N, 0206138M
Line Item MDAP/MAIS Code: N/A Miscellaneous Items provides for procurement of various rocket components not to exceed a total cost of 500K per year per component. Product Improvement (PIP) provides for modifications and upgrades to products within Airborne Rockets, All types. Efforts include configuration changes involving production, engineering, manufacturing, installation and testing that increases system or combat effectiveness to extend the useful military life of an item, and/or to improve the item within the current performance envelope.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: 0204162N, 0206138M				
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	Airborne Rockets, All Types	P-5a, P-21			- / 1,034.508	- / 113.741	- / 80.502	- / 151.431	- / 2.163	- / 153.594
P-40	Total Gross/Weapon System Cost				- / 1,034.508	- / 113.741	- / 80.502	- / 151.431	- / 2.163	- / 153.594
*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: FY 2019 baseline funding is required to procure 2.75-inch rocket components - to include rocket motors, warheads, Advanced Precision Kill Weapon System (APKWS) guidance sections, rocket launchers and containers - to enable low-cost area suppression as well as precision engagements from US Marine Corps (USMC) H-1, AV-8B, and F/A-18A-D aircraft in low collateral damage Close Air Support (CAS) operations, and from US Navy (USN) H-60 aircraft to neutralize Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC) threats. Increase in FY2019 is to account for additional qualified platforms. MK-66 rocket motor inventory requirements are increasing due to current combat operations and pre deployment training primarily driven by increased platform usage. Procurement quantities increase throughout the FYDP to ensure inventory is maintained. In addition, FY 2019 baseline funding is required to address product improvements needed for obsolete components designed and produced over 40 years ago as well as the production engineering and integrated logistics support efforts needed for all 2.75-inch rocket components. Airborne Rockets product improvement efforts are required to reduce production cost, extend component life and to improve Combat effectiveness on pace with platform Combat system improvements. The modular rocket product improvements program is designed to upgrade the current rockets systems motors, warheads, launchers and guidance sections to take advantage of current and future upgrades to numerous platforms. The long term acquisition strategy for small guided rocket systems and launchers PIP is to reduce weight and improve reliability. Additional product improvement efforts in FY2019 are to modify the APKWS guidance section to a single variant for both fixed wing and rotary wing in order to decrease the logistic footprint and increase in-theater flexibility. OCO: FY 2019 Overseas Contingency Operations (OCO) funding is required to replenish munitions and components that were expended in direct support of combat operations in theater. These operations were in support of Operation Inherent Resolve (OIR). MK-66 rocket motors are required for combat operations, and OCO funding will aid in the replenishment of rocket motor inventory levels. The MK-66 motor is used as the component motor in all 2.75-inch rocket configurations. Due to an increase in pre-deployment training as well as combat operations, additional procurements are required to maintain the operational capability of the warfighter and to ensure inventory is maintained. The MK-152 warhead with the MK-435 fuze allows the warfighter to engage the enemy at closer ranges, increasing accuracy with a safer, more reliable warhead. This provides sufficient inventory to support the current OCO operational tempo with warheads thereby providing greater lethality and reducing collateral damage. Advanced Precision Kill Weapon System (APKWS) OCO is required to replenish combat expenditures in support of OCO operations in direct support of Operation Inherent Resolve. OCO funding is also required for production engineering support of rocket components procured and produced to replenish OCO expenditures. Failure to replenish OCO rocket component expenditures will require USMC H-1 aircraft to employ more expensive weapons (i.e. Hellfire) to neutralize low-cost, soft/lightly armored targets and simultaneously challenge the ability of the USN H-60 fleet to effectively counter the Fast Attack Craft/Fast Inshore Attack Craft FAC/FIAC threat.										

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0204162N, 0206138M
Line Item MDAP/MAIS Code: N/A		

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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: 1508N / 01 / 1								P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types								Aggregated Items Title: Airborne Rockets, All Types					
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) Rockets Hardware																					
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(†)}	A		895.42	396,516	355.048	495.23	41,411	20.508	505.14	46,098	23.286	603.98	46,497	28.083	603.98	47	0.028	603.98	46,544	28.111	
1.2) (Q5041) MK 71 ROCKET MOTOR	A		-	-	56.296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.3) (Q5042) MK 66 ROCKET MOTOR (MOD 6)	A		-	-	0.585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) (Q5200) SMOKEY SAM ^{(2)(†)}	A		685.34	5,800	3.975	165.59	10,005	1.657	170.86	2,000	0.342	174.28	2,000	0.349	-	-	-	174.28	2,000	0.349	
Subtotal: 1) Rockets Hardware			-	-	415.904	-	-	22.165	-	-	23.628	-	-	28.432	-	-	0.028	-	-	28.460	
2) Rocket Warheads																					
2.1) (Q5030) WTU1/ B INERT WARHEAD ^{(3)(†)}	A		129.51	202,368	26.208	97.08	7,643	0.742	99.02	7,624	0.755	81.88	7,616	0.624	-	-	-	81.88	7,616	0.624	
2.2) (Q5080) MK 146 HE WARHEAD ^{(4)(†)}	A		18,431.82	1,100	20.275	-	-	-	1,702.96	541	0.921	1,737.03	187	0.325	-	-	-	1,737.03	187	0.325	
2.3) (Q5090) MK 149 WARHEAD ^{(5)(†)}	A		29,394.74	418	12.287	-	-	-	611.79	1,191	0.729	624.03	100	0.062	-	-	-	624.03	100	0.062	
2.4) (Q5897) WTU-11/ B WARHEAD ^{(6)(†)}	A		-	-	1.025	-	-	-	442.79	500	0.221	-	-	-	-	-	-	-	-	-	
2.5) (Q5898) M282 MULTI-PURPOSE PENETRATOR (MPP) ^{(7)(†)}	A		3,536.24	6,788	24.004	-	-	-	3,589.07	39	0.140	3,660.87	39	0.143	-	-	-	3,660.87	39	0.143	
2.6) (Q5899) MK 152 WARHEAD ^{(8)(†)}	A		1,377.20	79,657	109.704	-	-	-	1,663.00	137	0.228	2,173.25	100	0.217	2,173.25	43	0.093	2,173.25	143	0.310	
Subtotal: 2) Rocket Warheads			-	-	193.503	-	-	0.742	-	-	2.994	-	-	1.371	-	-	0.093	-	-	1.464	
3) Rocket Launchers																					
3.1) (Q5895) LAU-68 F/A (2.75") ^(†)	A		18,469.11	2,541	46.930	18,264.71	102	1.863	18,620.97	184	3.426	18,737.76	184	3.448	-	-	-	18,737.76	184	3.448	
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(9)(†)}	A		56,948.64	331	18.850	60,827.16	81	4.927	62,049.34	110	6.825	51,165.09	110	5.628	-	-	-	51,165.09	110	5.628	
Subtotal: 3) Rocket Launchers			-	-	65.780	-	-	6.790	-	-	10.251	-	-	9.076	-	-	-	-	-	9.076	
4) APKWS																					
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}	A		28,198.11	8,233	232.155	23,788.00	2,664	63.372	24,263.76	1,489	36.129	24,749.04	3,609	89.319	24,749.04	77	1.906	24,749.04	3,686	91.225	
Subtotal: 4) APKWS			-	-	232.155	-	-	63.372	-	-	36.129	-	-	89.319	-	-	1.906	-	-	91.225	

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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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types							Aggregated Items Title: Airborne Rockets, All Types						
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) Other																				
5.1) (Q5871) MISCELLANEOUS ITEMS	A		-	-	7.746	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
5.2) (Q5870) CONTAINERS ⁽¹¹⁾	A		-	-	25.952	-	-	2.188	-	-	1.247	-	-	2.765	-	-	-	-	-	2.765
Subtotal: 5) Other			-	-	33.698	-	-	2.288	-	-	1.347	-	-	2.865	-	-	-	-	-	2.865
6) (Q5800) Integrated Logistics Support (ILS)																				
6.1) ROCKET WARHEADS-ILS	A		-	-	3.537	-	-	0.175	-	-	0.182	-	-	0.186	-	-	-	-	-	0.186
6.2) ROCKET LAUNCHERS-ILS	A		-	-	0.723	-	-	0.103	-	-	0.107	-	-	0.109	-	-	-	-	-	0.109
6.3) APKWS-ILS	A		-	-	0.345	-	-	0.350	-	-	0.052	-	-	0.053	-	-	-	-	-	0.053
6.4) OTHER-ILS	A		-	-	0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) (Q5800) Integrated Logistics Support (ILS)			-	-	4.641	-	-	0.628	-	-	0.341	-	-	0.348	-	-	-	-	-	0.348
7) (Q5850) Product Improvement (PIP)																				
7.1) ROCKET MOTORS - PIP	A		-	-	0.049	-	-	0.002	-	-	0.052	-	-	0.053	-	-	-	-	-	0.053
7.2) ROCKET WARHEADS-PIP	A		-	-	14.116	-	-	0.203	-	-	0.221	-	-	0.230	-	-	-	-	-	0.230
7.3) ROCKET LAUNCHERS-PIP	A		-	-	0.520	-	-	0.002	-	-	0.553	-	-	0.576	-	-	-	-	-	0.576
7.4) APKWS-PIP ⁽¹²⁾	A		-	-	9.470	-	-	13.001	-	-	2.291	-	-	16.356	-	-	-	-	-	16.356
Subtotal: 7) (Q5850) Product Improvement (PIP)			-	-	24.155	-	-	13.208	-	-	3.117	-	-	17.215	-	-	-	-	-	17.215
8) (Q5830) Production Engineering Support (PES)																				
8.1) ROCKET MOTORS-PES	A		-	-	13.591	-	-	0.659	-	-	0.714	-	-	0.728	-	-	-	-	-	0.728
8.2) ROCKET WARHEADS-PES	A		-	-	29.516	-	-	0.686	-	-	0.723	-	-	0.737	-	-	-	-	-	0.737
8.3) ROCKET LAUNCHERS-PES	A		-	-	6.537	-	-	0.182	-	-	0.197	-	-	0.201	-	-	-	-	-	0.201
8.4) APKWS-PES ⁽¹³⁾	A		-	-	15.028	-	-	3.021	-	-	1.061	-	-	1.139	-	-	0.136	-	-	1.275
Subtotal: 8) (Q5830) Production Engineering Support (PES)			-	-	64.672	-	-	4.548	-	-	2.695	-	-	2.805	-	-	0.136	-	-	2.941
Total			-	-	1,034.508	-	-	113.741	-	-	80.502	-	-	151.431	-	-	2.163	-	-	153.594
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: 1508N / 01 / 1	P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types	Aggregated Items Title: Airborne Rockets, All Types
⁽¹⁾ (Q5040) MK 66 ROCKET MOTOR (MOD 4): FY 2019 unit price increased above inflation based on prior year actuals. Pricing is provided by the Army and incorporates other customer buys. The unit price fluctuates depending on the total procurement. ⁽²⁾ (Q5200) SMOKEY SAM: FY2017 updated to reflect actuals. ⁽³⁾ (Q5030) WTU1/B INERT WARHEAD: Pricing provided by the Army and incorporates other services' buys. Baseline unit cost is dependent on total quantities from the Army. WTU-1/B warheads are procured via competitive contract led by the Army. ⁽⁴⁾ (Q5080) MK 146 HE WARHEAD: FY2017 decreased as a result of a change in requirements in order to manage the Airborne Rockets portfolio. ⁽⁵⁾ (Q5090) MK 149 WARHEAD: FY2017 decreased as a result of a change in requirements in order to manage the Airborne Rockets portfolio. (Q5090) MK 149 WARHEAD: Pricing provided by the Army and incorporates other services' buys. ⁽⁶⁾ (Q5897) WTU-11/B WARHEAD: FY2017 decreased as a result of a change in requirements in order to manage the Airborne Rockets portfolio. ⁽⁷⁾ (Q5898) M282 MULTI-PURPOSE PENETRATOR: FY2017 decreased as a result of a change in requirements in order to manage the Airborne Rockets portfolio. (Q5898) M282 MULTI-PURPOSE PENETRATOR: Pricing provided by the Army and incorporates other services' buys. ⁽⁸⁾ (Q5899) MK 152 WARHEAD: FY2017 decreased as a result of a change in requirements in order to manage the Airborne Rockets portfolio. (Q5899) MK 152 WARHEAD: FY 2019 unit price increased above inflation based on new fuze and lower multi-service procurements. Unit price fluctuates depending on total procurement. ⁽⁹⁾ Q5900 LAU-61 G/A (2.75-inch) DRL unit price decreased in FY2019 as a result of reflecting a more accurate unit price from actual data received during the last award buy. ⁽¹⁰⁾ (Q5896) APKWS G&C SECTIONS: FY2019 APKWS unit price reduced based on prior year actuals. Pricing is provided by the Navy and depends on other customer buys. The unit price fluctuates depending on the total procurement between other services and FMS customers. FY2019 increase in dollars and quantities are to account for additional platforms qualified. ⁽¹¹⁾ (Q5870) CONTAINERS: FY 2019 containers increased above inflation based on actual costs and quantities to refurbish containers required for the Mk-66 Rocket Motors and refurbish containers for use with APKWS All Up Rounds. ⁽¹²⁾ (Q5850) APKWS-PIP: Increase in FY2019 to account for funding to support the modifications to the APKWS guidance section to a single variant for both fixed wing and rotary wing platforms in order to decrease the logistics footprint and increase in-theater flexibility. ⁽¹³⁾ (Q5830) APKWS PES: Increase in FY2019 to account for additional support needed to support the increase in quantities.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types						Aggregated Items: Airborne Rockets, All Types			
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) Rockets Hardware												
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2016	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jul 2016	Dec 2017	12,775	486.48	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2016	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jul 2016	Dec 2017	13,704	430.96	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2017 ⁽¹⁴⁾	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Aug 2017	Dec 2018	38,598	495.23	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2017 ⁽¹⁵⁾	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Dec 2017	May 2019	2,813	495.23	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2018	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2018	Feb 2020	45,718	505.14	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2018	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2018	Feb 2020	380	505.14	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2019	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jun 2019	Feb 2021	46,497	603.98	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2019	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jun 2019	Feb 2021	47	603.98	Y		Oct 2013
1.4) (Q5200) SMOKEY SAM ⁽²⁾		2014	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2014	Mar 2015	2,970	158.00	Y		
1.4) (Q5200) SMOKEY SAM ⁽²⁾		2015	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Nov 2014	Nov 2015	2,830	161.13	Y		
1.4) (Q5200) SMOKEY SAM ⁽²⁾		2017 ⁽¹⁶⁾	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Sep 2017	Sep 2018	10,005	165.59	Y		
1.4) (Q5200) SMOKEY SAM ⁽²⁾		2018	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jun 2018	Jun 2019	2,000	170.86	Y		
1.4) (Q5200) SMOKEY SAM ⁽²⁾		2019	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jun 2019	Jun 2020	2,000	174.28	Y		
2) Rocket Warheads												
2.1) (Q5030) WTU1/B INERT WARHEAD ⁽³⁾		2016	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jul 2016	Jul 2017	7,649	95.18	Y		Oct 2013
2.1) (Q5030) WTU1/B INERT WARHEAD ⁽³⁾		2017 ⁽¹⁷⁾	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Sep 2017	Sep 2018	7,643	97.08	Y		Oct 2013
2.1) (Q5030) WTU1/B INERT WARHEAD ⁽³⁾		2018	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2018	May 2019	7,624	99.02	Y		Oct 2013
2.1) (Q5030) WTU1/B INERT WARHEAD ⁽³⁾		2019	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jun 2019	Jun 2020	7,616	81.88	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: 1508N / 01 / 1			P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types					Aggregated Items: Airborne Rockets, All Types				
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
2.2) (Q5080) MK 146 HE WARHEAD ⁽⁴⁾		2018	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jul 2018	Jul 2019	541	1,702.96	Y		
2.3) (Q5090) MK 149 WARHEAD (5)		2018	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jun 2018	Oct 2020	1,191	611.79	Y		
2.3) (Q5090) MK 149 WARHEAD (5)		2019	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jun 2019	Oct 2021	100	624.03	Y		
2.4) (Q5897) WTU-11/B WARHEAD ⁽⁶⁾		2018	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	May 2018	May 2019	500	442.79	Y		
2.5) (Q5898) M282 MULTI- PURPOSE PENETRATOR (MPP) (7)		2018	General Dynamics ⁽¹⁸⁾ / Burlington, VT	C / FFP	Huntsville	Apr 2018	Apr 2019	39	3,589.07	Y		Jul 2017
2.5) (Q5898) M282 MULTI- PURPOSE PENETRATOR (MPP) (7)		2019	General Dynamics ⁽¹⁸⁾ / Burlington, VT	C / FFP	Huntsville	Jun 2019	Jun 2020	39	3,660.87	Y		
2.6) (Q5899) MK 152 WARHEAD (8)		2018	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2018	Mar 2019	100	1,663.00	Y		
2.6) (Q5899) MK 152 WARHEAD (8)	✓	2018	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2018	Mar 2019	37	1,663.00	Y		
2.6) (Q5899) MK 152 WARHEAD (8)		2019	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jun 2019	Jun 2020	100	2,173.25	Y		
2.6) (Q5899) MK 152 WARHEAD (8)	✓	2019	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jun 2019	Jun 2020	43	2,173.25	Y		
3) Rocket Launchers												
3.1) (Q5895) LAU-68 F/A (2.75")		2016	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Sep 2017	Sep 2018	48	17,895.83	Y		Sep 2015
3.1) (Q5895) LAU-68 F/A (2.75")		2017	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Sep 2017	Sep 2018	49	18,265.00	Y		Sep 2015
3.1) (Q5895) LAU-68 F/A (2.75")	✓	2017	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Sep 2017	Sep 2018	53	18,255.85	Y		Sep 2015
3.1) (Q5895) LAU-68 F/A (2.75")		2018	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Mar 2018	Mar 2019	184	18,620.97	Y		Sep 2015
3.1) (Q5895) LAU-68 F/A (2.75")		2019	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Mar 2019	Mar 2020	184	18,737.76	Y		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(9)(†)}		2016	Arnold Defense ⁽¹⁹⁾ / St. Louis, MO	SS / FFP	NSWC	Sep 2017	Sep 2018	29	58,470.48	Y		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(9)(†)}		2017	Arnold Defense ⁽¹⁹⁾ / St. Louis, MO	SS / FFP	NSWC	Sep 2017	Sep 2018	59	60,827.16	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types					Aggregated Items: Airborne Rockets, All Types			
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
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(9)(†)}	✓	2017	Arnold Defense ⁽¹⁹⁾ / St. Louis, MO	SS / FFP	NSWC	Sep 2017	Sep 2018	22	60,832.69	Y		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(9)(†)}		2018	Arnold Defense ⁽¹⁹⁾ / St. Louis, MO	SS / FFP	NSWC	Apr 2018	Apr 2019	110	62,049.34	Y		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(9)(†)}		2019	Arnold Defense ⁽¹⁹⁾ / St. Louis, MO	SS / FFP	NSWC	Mar 2019	Apr 2020	110	51,165.09	Y		
4) APKWS												
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}		2016	BAE SYSTEMS ⁽²⁰⁾ / NASHUA, NH	SS / FFP	NAVAIR HQ	Oct 2016	Sep 2017	1,802	28,704.21	Y		Sep 2015
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}	✓	2016	BAE SYSTEMS ⁽²⁰⁾ / NASHUA, NH	SS / FFP	NAVAIR HQ	Oct 2016	Sep 2017	127	28,704.21	Y		Sep 2015
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}		2017	BAE SYSTEMS ⁽²⁰⁾ / NASHUA, NH	SS / FFP	NAVAIR HQ	Apr 2017	Mar 2018	2,450	23,788.00	Y		Sep 2015
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}	✓	2017	BAE SYSTEMS ⁽²⁰⁾ / NASHUA, NH	SS / FFP	NAVAIR HQ	Apr 2017	Mar 2018	214	23,788.00	Y		Sep 2015
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}		2018	BAE SYSTEMS ⁽²⁰⁾ / NASHUA, NH	SS / FFP	NAVAIR HQ	Mar 2018	Feb 2019	1,451	24,263.76	Y		Sep 2015
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}	✓	2018	BAE SYSTEMS ⁽²⁰⁾ / NASHUA, NH	SS / FFP	NAVAIR HQ	Mar 2018	Feb 2019	38	24,263.76	Y		
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}		2019	BAE SYSTEMS ⁽²⁰⁾ / NASHUA, NH	SS / FFP	NAVAIR HQ	Mar 2019	Feb 2020	3,609	24,749.04	Y		
4.1) (Q5896) APKWS G&C SECTIONS ^{(10)(†)}	✓	2019	BAE SYSTEMS ⁽²⁰⁾ / NASHUA, NH	SS / FFP	NAVAIR HQ	Mar 2019	Feb 2020	77	24,749.04	Y		
^(†) indicates the presence of a P-21 Footnotes: ⁽¹⁴⁾ (Q5040) FY 2017 MK 66 Rocket Motor: Contract award date changed to August 2017 due to additional time needed for contract negotiations. Initial procurement awarded in August of 2017 follow on to award in December 2017 and June 2018 ⁽¹⁵⁾ (Q5040) FY 2017 OCO MK 66 Rocket Motor: Contract award date changed to December 2017 due to additional time needed for contract negotiations. ⁽¹⁶⁾ (Q5200) FY 2017 Smokey Sam: Contract award date changed to September 2017 to investigate multi-service procurement options. Contract awarded September 2017. ⁽¹⁷⁾ (Q5030) FY 2017 WTU1/B INERT WARHEAD: Contract award date changed to September 2017 due to additional time needed to increase the ceiling on the tri-service contract. Contract awarded September 2017. ⁽¹⁸⁾ (Q5898) M282 MULTI-PURPOSE PENETRATOR: MSR will be met with purchases from the Army.												

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types	Aggregated Items: Airborne Rockets, All Types
(19) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER: Manufacturing Lead time updated to reflect current contract. (20) (Q5896) APKWS G&C SECTIONS : APKWS production rates planned increased to accommodate increased warfighter operational usage. Minimum Sustaining Rate is satisfied by multi-service procurements. Maximum production rate based on two shifts and does not include the potential for surge capability.		

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types										Aggregated Items: Airborne Rockets, All Types												
Items <i>(Units in Thousands)</i>							Fiscal Year 2014										Fiscal Year 2015										BALANCE					
OCO#	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015															
							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) Rockets Hardware																																
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																
Prior Years Deliveries: 370037																																
	1	2016	NAVY		12.775	.000	12.775																								12.775	
✓	1	2016	NAVY		13.704	.000	13.704																								13.704	
	1	2017	NAVY		38.598	.000	38.598																								38.598	
✓	1	2017	NAVY		2.813	.000	2.813																								2.813	
	1	2018	NAVY		45.718	.000	45.718																								45.718	
✓	1	2018	NAVY		.380	.000	.380																								.380	
	1	2019	NAVY		46.497	.000	46.497																								46.497	
✓	1	2019	NAVY		.047	.000	.047																								.047	
3) Rocket Launchers																																
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁹⁾																																
Prior Years Deliveries: 302																																
	2	2016	NAVY		.029	.000	.029																								.029	
	2	2017	NAVY		.059	.000	.059																								.059	
✓	2	2017	NAVY		.022	.000	.022																								.022	
	2	2018	NAVY		.110	.000	.110																								.110	
	2	2019	NAVY		.110	.000	.110																								.110	
4) APKWS																																
4.1) (Q5896) APKWS G&C SECTIONS ⁽¹⁰⁾																																
Prior Years Deliveries: 6304																																
	3	2016	NAVY		1.802	.000	1.802																								1.802	
✓	3	2016	NAVY		.127	.000	.127																								.127	
	3	2017	NAVY		2.450	.000	2.450																								2.450	
✓	3	2017	NAVY		.214	.000	.214																								.214	
	3	2018	NAVY		1.451	.000	1.451																								1.451	
✓	3	2018	NAVY		.038	.000	.038																								.038	
	3	2019	NAVY		3.609	.000	3.609																								3.609	
✓	3	2019	NAVY		.077	.000	.077																								.077	
								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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types										Aggregated Items: Airborne Rockets, All Types													
Items (Units in Thousands)							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) Rockets Hardware																																	
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																	
Prior Years Deliveries: 370037																																	
	1	2016	NAVY		12.775	.000	12.775													A -	-	-	-	-	-	-	-	-	-	-	-	-	12.775
✓	1	2016	NAVY		13.704	.000	13.704													A -	-	-	-	-	-	-	-	-	-	-	-	-	13.704
	1	2017	NAVY		38.598	.000	38.598																							A -	-	38.598	
✓	1	2017	NAVY		2.813	.000	2.813																									2.813	
	1	2018	NAVY		45.718	.000	45.718																									45.718	
✓	1	2018	NAVY		.380	.000	.380																									.380	
	1	2019	NAVY		46.497	.000	46.497																									46.497	
✓	1	2019	NAVY		.047	.000	.047																									.047	
3) Rocket Launchers																																	
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁹⁾																																	
Prior Years Deliveries: 302																																	
	2	2016	NAVY		.029	.000	.029																							A -	.029		
	2	2017	NAVY		.059	.000	.059																							A -	.059		
✓	2	2017	NAVY		.022	.000	.022																							A -	.022		
	2	2018	NAVY		.110	.000	.110																									.110	
	2	2019	NAVY		.110	.000	.110																									.110	
4) APKWS																																	
4.1) (Q5896) APKWS G&C SECTIONS ⁽¹⁰⁾																																	
Prior Years Deliveries: 6304																																	
	3	2016	NAVY		1.802	.000	1.802													A -	-	-	-	-	-	-	-	-	-	.150	1.652		
✓	3	2016	NAVY		.127	.000	.127													A -	-	-	-	-	-	-	-	-	-	.042	.085		
	3	2017	NAVY		2.450	.000	2.450																						A -	-	2.450		
✓	3	2017	NAVY		.214	.000	.214																					A -	-	-	.214		
	3	2018	NAVY		1.451	.000	1.451																									1.451	
✓	3	2018	NAVY		.038	.000	.038																									.038	
	3	2019	NAVY		3.609	.000	3.609																									3.609	
✓	3	2019	NAVY		.077	.000	.077																									.077	
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types										Aggregated Items: Airborne Rockets, All Types																	
Items <i>(Units in Thousands)</i>							Fiscal Year 2018										Fiscal Year 2019										B A L A N C E										
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019																				
							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) Rockets Hardware																																					
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																					
Prior Years Deliveries: 370037																																					
	1	2016	NAVY	12.775	.000	12.775	-	-	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.064	1.064	1.064	1.064	1.064														.000			
✓	1	2016	NAVY	13.704	.000	13.704	-	-	1.142	1.142	1.142	1.142	1.142	1.142	1.142	1.142	1.142	1.142	1.142	1.142														.000			
	1	2017	NAVY	38.598	.000	38.598	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.217	3.217	3.217	3.217	3.217	3.217	3.216	3.216	3.216	3.216	6.432						
✓	1	2017	NAVY	2.813	.000	2.813			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.234	.234	.234	.234	.234	1.643							
	1	2018	NAVY	45.718	.000	45.718											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.718				
✓	1	2018	NAVY	.380	.000	.380											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.380				
	1	2019	NAVY	46.497	.000	46.497																										A -	-	-	-	-	46.497
✓	1	2019	NAVY	.047	.000	.047																										A -	-	-	-	-	.047
3) Rocket Launchers																																					
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁹⁾																																					
Prior Years Deliveries: 302																																					
	2	2016	NAVY	.029	.000	.029	-	-	-	-	-	-	-	-	-	-	-	.002	.002	.002	.002	.002	.002	.002	.002	.003	.003	.003	.003	.003		.000					
	2	2017	NAVY	.059	.000	.059	-	-	-	-	-	-	-	-	-	-	-	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.004	.005	.005		.000					
✓	2	2017	NAVY	.022	.000	.022	-	-	-	-	-	-	-	-	-	-	-	.001	.001	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002		.000					
	2	2018	NAVY	.110	.000	.110											A -	-	-	-	-	-	-	-	-	-	-	.009	.009	.009	.009	.009	.009	.056			
	2	2019	NAVY	.110	.000	.110																					A -	-	-	-	-	-	-	-	.110		
4) APKWS																																					
4.1) (Q5896) APKWS G&C SECTIONS ⁽¹⁰⁾																																					
Prior Years Deliveries: 6304																																					
	3	2016	NAVY	1.802	.150	1.652	.150	.150	.150	.150	.150	.150	.150	.150	.150	.150	.152																	.000			
✓	3	2016	NAVY	.127	.042	.085	.042	.043																									.000				
	3	2017	NAVY	2.450	.000	2.450	-	-	-	-	-	.206	.204	.204	.204	.204	.204	.204	.204	.204	.204	.204												.000			
✓	3	2017	NAVY	.214	.000	.214	-	-	-	-	-	.018	.018	.018	.018	.018	.018	.018	.018	.018	.018	.017	.017											.000			
	3	2018	NAVY	1.451	.000	1.451											A -	-	-	-	-	-	-	-	-	.121	.121	.121	.121	.121	.121	.121	.121	.483			
✓	3	2018	NAVY	.038	.000	.038											A -	-	-	-	-	-	-	-	-	.004	.004	.003	.003	.003	.003	.003	.003	.012			
	3	2019	NAVY	3.609	.000	3.609																					A -	-	-	-	-	-	-	-	3.609		
✓	3	2019	NAVY	.077	.000	.077																					A -	-	-	-	-	-	-	-	.077		
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types													Aggregated Items: Airborne Rockets, All Types											
Items <i>(Units in Thousands)</i>							Fiscal Year 2020											Fiscal Year 2021											B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020																	Calendar Year 2021										
							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) Rockets Hardware																																		
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																		
Prior Years Deliveries: 370037																																		
	1	2016	NAVY		12.775	12.775	.000																											.000
✓	1	2016	NAVY		13.704	13.704	.000																											.000
	1	2017	NAVY		38.598	32.166	6.432	3.216	3.216																									.000
✓	1	2017	NAVY		2.813	1.170	1.643	.234	.234	.235	.235	.235	.235											.000										
	1	2018	NAVY		45.718	.000	45.718	-	-	-	-	3.810	3.810	3.810	3.810	3.810	3.810	3.810	3.810	3.809	3.809								.000					
✓	1	2018	NAVY		.380	.000	.380	-	-	-	-	.032	.032	.032	.032	.032	.031	.031	.031	.031								.000						
	1	2019	NAVY		46.497	.000	46.497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.875	3.875	3.875	3.875	3.875	3.875	3.875	3.875	15.497				
✓	1	2019	NAVY		.047	.000	.047	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.004	.004	.004	.004	.004	.004	.004	.004	.015				
3) Rocket Launchers																																		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁹⁾																																		
Prior Years Deliveries: 302																																		
	2	2016	NAVY		.029	.029	.000																											.000
	2	2017	NAVY		.059	.059	.000																											.000
✓	2	2017	NAVY		.022	.022	.000																											.000
	2	2018	NAVY		.110	.054	.056	.009	.009	.009	.009	.009	.011											.000										
	2	2019	NAVY		.110	.000	.110	-	-	-	-	-	-	.009	.009	.009	.009	.009	.009	.009	.009	.009	.011								.000			
4) APKWS																																		
4.1) (Q5896) APKWS G&C SECTIONS ⁽¹⁰⁾																																		
Prior Years Deliveries: 6304																																		
	3	2016	NAVY		1.802	1.802	.000																											.000
✓	3	2016	NAVY		.127	.127	.000																											.000
	3	2017	NAVY		2.450	2.450	.000																											.000
✓	3	2017	NAVY		.214	.214	.000																											.000
	3	2018	NAVY		1.451	.968	.483	.121	.121	.121	.120																		.000					
✓	3	2018	NAVY		.038	.026	.012	.003	.003	.003	.003											.000												
	3	2019	NAVY		3.609	.000	3.609	-	-	-	-	.300	.300	.300	.301	.301	.301	.301	.301	.301	.301	.301	.301								.000			
✓	3	2019	NAVY		.077	.000	.077	-	-	-	-	.007	.007	.007	.007	.007	.006	.006	.006	.006	.006	.006	.006								.000			
								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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types										Aggregated Items: Airborne Rockets, All Types													
Items <i>(Units in Thousands)</i>							Fiscal Year 2022										Fiscal Year 2023										BALANCE						
OCO	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023																
							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) Rockets Hardware																																	
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																	
Prior Years Deliveries: 370037																																	
	1	2016	NAVY		12.775	12.775	.000																										.000
✓	1	2016	NAVY		13.704	13.704	.000																										.000
	1	2017	NAVY		38.598	38.598	.000																										.000
✓	1	2017	NAVY		2.813	2.813	.000																										.000
	1	2018	NAVY		45.718	45.718	.000																										.000
✓	1	2018	NAVY		.380	.380	.000																										.000
	1	2019	NAVY		46.497	31.000	15.497	3.875	3.874	3.874	3.874																					.000	
✓	1	2019	NAVY		.047	.032	.015	.004	.004	.004	.003																					.000	
3) Rocket Launchers																																	
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁹⁾																																	
Prior Years Deliveries: 302																																	
	2	2016	NAVY		.029	.029	.000																										.000
	2	2017	NAVY		.059	.059	.000																										.000
✓	2	2017	NAVY		.022	.022	.000																										.000
	2	2018	NAVY		.110	.110	.000																										.000
	2	2019	NAVY		.110	.110	.000																										.000
4) APKWS																																	
4.1) (Q5896) APKWS G&C SECTIONS ⁽¹⁰⁾																																	
Prior Years Deliveries: 6304																																	
	3	2016	NAVY		1.802	1.802	.000																										.000
✓	3	2016	NAVY		.127	.127	.000																										.000
	3	2017	NAVY		2.450	2.450	.000																										.000
✓	3	2017	NAVY		.214	.214	.000																										.000
	3	2018	NAVY		1.451	1.451	.000																										.000
✓	3	2018	NAVY		.038	.038	.000																										.000
	3	2019	NAVY		3.609	3.609	.000																										.000
✓	3	2019	NAVY		.077	.077	.000																										.000
								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: 1508N / 01 / 1					P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types				Aggregated Items: Airborne Rockets, All Types			
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	General Dynamics - Burlington, VT	3,600	300,000	552,000	0	0	0	0	0	9	18	27
2	Arnold Defense ⁽¹⁹⁾ - St. Louis, MO	9	142	285	0	6	0	6	0	6	12	18
3	BAE SYSTEMS ⁽²⁰⁾ - NASHUA, NH	2,000	12,000	20,000	0	0	0	0	0	6	11	17

"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:

⁽¹⁹⁾ (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER: Manufacturing Lead time updated to reflect current contract.

⁽²⁰⁾ (Q5896) APKWS G&C SECTIONS : APKWS production rates planned increased to accommodate increased warfighter operational usage. Minimum Sustaining Rate is satisfied by multi-service procurements. Maximum production rate based on two shifts and does not include the potential for surge capability.

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

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition

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>)	648.749	8.152	14.112	11.344	5.000	16.344	13.551	11.577	11.803	12.054	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	648.749	8.152	14.112	11.344	5.000	16.344	13.551	11.577	11.803	12.054	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	648.749	8.152	14.112	11.344	5.000	16.344	13.551	11.577	11.803	12.054	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.035 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.

Provides procurement of 20MM/25MM ammunition that supports various aircraft gun systems for several Type/Model/Series (T/M/S) aircraft. Funding also includes the integrated logistics support, product engineering support and product improvement programs in support of the ammunition procurements.

The ammunition procurements fall into three categories: Target Practice (TP), High Explosive Incendiary (HEI), and inert. The TP and inert rounds are used for training. The HEI rounds are used for warfighting and training and also include Semi Armor Piercing High Explosive Incendiary(SAPHEI) rounds.

All 20MM/25MM ammunition is procured by the Joint Munitions Command, Rock Island, Illinois.

20MM rounds are procured in both linkless and linked configurations. The linkless (or bulk) rounds are used in the M61A1/A2 Gun Systems in the F/A-18 aircraft and the M197 Linkless Feed Gun System on the AH-1W/Z aircraft. The linked rounds are used in the M197 gun on MH60 aircraft for the Fixed Forward Firing Weapon (FFFW).

25MM rounds are procured in the linkless configuration and are used in the GAU-12 Gun System in the AV-8B aircraft and the GAU-22 Gun System in the F-35B&C.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition				
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 / Machine Gun Ammunition	P-5a, P-21			- / 648.749	- / 8.152	- / 14.112	- / 11.344	- / 5.000	- / 16.344
P-40	Total Gross/Weapon System Cost				- / 648.749	- / 8.152	- / 14.112	- / 11.344	- / 5.000	- / 16.344
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY2019 baseline funding is required to support 20MM Linked TP requirements and inert rounds. Provides procurement of 20MM ammunition that supports various aircraft gun systems for several Type/Model/ Series (T/M/S) aircraft. OCO: FY2019 Overseas Contingency Operations funding is required to replenish stocks depleted by combat expenditures in support of Operation Inherent Resolve for the 20MM Linkless HEI.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition						Item Number / Title [DODIC]: 1 / Machine Gun Ammunition					
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>				648.749		8.152		14.112		11.344		5.000		16.344				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				648.749		8.152		14.112		11.344		5.000		16.344				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				648.749		8.152		14.112		11.344		5.000		16.344				
(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 - Machine Gun Ammunition Cost																		
Recurring Cost																		
1.1.1) (Q4010) 20MM LINKLESS, TP ^(†) (1)	17.18	12,467,060	214.215	-	-	-	10.87	899,448	9.777	-	-	-	-	-	-	-	-	-
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)	31.91	4,612,710	147.189	-	-	-	-	-	-	-	-	0.000	23.14	216,094	5.000	23.14	216,094	5.000
1.1.3) (Q4060) 20MM LINKED, TP ^(†) (2)	29.39	3,487,273	102.475	16.73	321,578	5.380	-	-	-	17.41	496,037	8.636	-	-	-	17.41	496,037	8.636
1.1.4) (Q4070) 20MM LINKED, HEI	112.39	673,448	75.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) (Q4080) 20MM LINKLESS, TP-T ^(†) (3)	16.60	1,208,072	20.051	-	-	-	17.20	87,209	1.500	-	-	-	-	-	-	-	-	-
1.1.6) (Q4090) 25MM LINKLESS, TP	17.99	587,723	10.574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.7) (Q4150) 25MM LINKLESS, HEI	52.63	405,570	21.346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.8) (Q4200) INERT ROUND ^(†)	27.74	35,251	0.978	20.65	4,842	0.100	21.06	4,748	0.100	21.48	4,655	0.100	-	-	-	21.48	4,655	0.100
Subtotal: Recurring Cost	-	-	592.518	-	-	5.480	-	-	11.377	-	-	8.736	-	-	5.000	-	-	13.736
Subtotal: Hardware - Machine Gun Ammunition Cost	-	-	592.518	-	-	5.480	-	-	11.377	-	-	8.736	-	-	5.000	-	-	13.736
Support - Product Improvement Cost																		
2.1) (Q4850) Machine Gun Ammunition	-	-	11.895	-	-	0.686	-	-	0.700	-	-	0.636	-	-	-	-	-	0.636

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition						Item Number / Title [DODIC]: 1 / Machine Gun Ammunition						
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)
Subtotal: Support - Product Improvement Cost	-	-	11.895	-	-	0.686	-	-	0.700	-	-	0.636	-	-	-	-	-	0.636
Support - Integrated Logistics Cost																		
3.1) (Q4800) Machine Gun Ammunition	-	-	8.729	-	-	0.638	-	-	0.655	-	-	0.608	-	-	-	-	-	0.608
Subtotal: Support - Integrated Logistics Cost	-	-	8.729	-	-	0.638	-	-	0.655	-	-	0.608	-	-	-	-	-	0.608
Support - Production Engineering Cost																		
4.1) (Q4830) Machine Gun Ammunition	-	-	35.607	-	-	1.348	-	-	1.380	-	-	1.364	-	-	-	-	-	1.364
Subtotal: Support - Production Engineering Cost	-	-	35.607	-	-	1.348	-	-	1.380	-	-	1.364	-	-	-	-	-	1.364
Gross/Weapon System Cost	-	-	648.749	-	-	8.152	-	-	14.112	-	-	11.344	-	-	5.000	-	-	16.344

(†) indicates the presence of a P-5a

Footnotes:

- (1) [(Q4010) 20MM LINKLESS, TP]: FY2018 through FY2022 funding reflects procurement of items every other year to obtain the most economical buys.
- (2) [(Q4060) 20MM LINKED, TP]: FY2017 through FY2023 funding reflects procurement of items every other year to obtain the most economical buys.
- (3) [(Q4080) 20MM LINKLESS, TP-T]: FY2018 through FY2022 funding reflects procurement of items every other year to obtain the most economical buys.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition					Item Number / Title [DODIC]: 1 / Machine Gun Ammunition			
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
1.1.1) (Q4010) 20MM LINKLESS, TP ^(†)		2015	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOISJMC ROCK ISLAND, ILLINOIS	Jul 2015	Sep 2017	404,394	10.24	Y		Sep 2013
1.1.1) (Q4010) 20MM LINKLESS, TP ^(†)		2018	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2018	Apr 2019	899,448	10.87	Y		Sep 2017
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)	✓	2015 ⁽⁴⁾	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2015	Mar 2018	160,046	21.70	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)		2016 ⁽⁵⁾	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2016	Mar 2018	346,341	22.14	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)	✓	2016 ⁽⁶⁾	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2016	Sep 2018	162,737	22.14	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)	✓	2019	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2019	Jul 2020	216,094	23.14	Y		Sep 2013
1.1.3) (Q4060) 20MM LINKED, TP ^(†)		2017 ⁽⁷⁾	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Sep 2017	Dec 2018	321,578	16.73	Y		Sep 2013
1.1.3) (Q4060) 20MM LINKED, TP ^(†)		2019	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2019	Jul 2020	496,037	17.41	Y		Sep 2013
1.1.5) (Q4080) 20MM LINKLESS, TP-T ^(†)		2016	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOISJMC ROCK ISLAND, ILLINOIS	Jul 2016	May 2018	332,527	16.54	Y		Sep 2013
1.1.5) (Q4080) 20MM LINKLESS, TP-T ^(†)		2018	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2018	Apr 2019	87,209	17.20	Y		Sep 2017
1.1.8) (Q4200) INERT ROUND ^(†)		2017 ⁽⁸⁾	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Aug 2017	Apr 2018	4,842	20.65	Y		Sep 2013
1.1.8) (Q4200) INERT ROUND ^(†)		2018	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2018	Apr 2019	4,748	21.06	Y		Sep 2017
1.1.8) (Q4200) INERT ROUND ^(†)		2019	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2019	Apr 2020	4,655	21.48	Y		Sep 2017

^(†) indicates the presence of a P-21

Footnotes:
⁽⁴⁾ (Q4050) 20MM Linkless, HEI delivery date changed from JAN 17 to MAR 18 due to a production delay. Production has resumed.
⁽⁵⁾ (Q4050) 20MM Linkless, HEI delivery date changed from JUL 17 to MAR 18 due to a production delay. Production has resumed.
⁽⁶⁾ (Q4050) 20MM Linkless, HEI delivery date changed from JUL 17 to SEP 18 due to a production delay. Production has resumed.
⁽⁷⁾ (Q4060) FY2017 20MM LINKED, TP: Contract award date changed to allow for other service procurements in order to achieve economic order quantities. Date of first delivery updated to reflect actual contract award.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition	Item Number / Title [DODIC]: 1 / Machine Gun Ammunition

⁽⁸⁾ (Q4200) FY 2017 INERT ROUND: Contract award was delayed pending receipt of other service funding in order to procure economical order quantities.

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018													
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition												Item Number / Title [DODIC]: 1 / Machine Gun Ammunition													
Cost Elements <i>(Units in Thousands)</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													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1.1.1) (Q4010) 20MM LINKLESS, TP ⁽¹⁾																																
Prior Years Deliveries: 12062666																																
	1	2015	NAVY	404.394	.000	404.394	-	-	-	-	-	-	-	-	-	-	-	29.627	29.627	29.627	29.627	29.629	97.750	97.750	60.757							.000
	1	2018	NAVY	899.448	.000	899.448																				A -	-	-	-	-	-	899.448
1.1.2) (Q4050) 20MM LINKLESS, HEI																																
Prior Years Deliveries: 3943586																																
✓	2	2015	NAVY	160.046	.000	160.046	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.500	57.500	45.046				.000	
	2	2016	NAVY	346.341	.000	346.341	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74.750	74.750	74.750	122.091			.000	
✓	2	2016	NAVY	162.737	.000	162.737	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.500	105.237	
✓	2	2019	NAVY	216.094	.000	216.094																									216.094	
1.1.3) (Q4060) 20MM LINKED, TP ⁽²⁾																																
Prior Years Deliveries: 3487273																																
	3	2017	NAVY	321.578	.000	321.578												A -	-	-	-	-	-	-	-	-	-	-	-	-	321.578	
	3	2019	NAVY	496.037	.000	496.037																									496.037	
1.1.5) (Q4080) 20MM LINKLESS, TP-T ⁽³⁾																																
Prior Years Deliveries: 875545																																
	4	2016	NAVY	332.527	.000	332.527	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97.750	97.750	97.750	39.277		.000
	4	2018	NAVY	87.209	.000	87.209																				A -	-	-	-	-	-	87.209
1.1.8) (Q4200) INERT ROUND																																
Prior Years Deliveries: 35251																																
	5	2017	NAVY	4.842	.000	4.842												A -	-	-	-	-	-	-	-	4.842					.000	
	5	2018	NAVY	4.748	.000	4.748																				A -	-	-	-	-	-	4.748
	5	2019	NAVY	4.655	.000	4.655																									4.655	
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition										Item Number / Title [DODIC]: 1 / Machine Gun Ammunition																	
Cost Elements <i>(Units in Thousands)</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						
1.1.1) (Q4010) 20MM LINKLESS, TP ⁽¹⁾																																					
Prior Years Deliveries: 12062666																																					
	1	2015	NAVY	404.394	404.394	.000																												.000			
	1	2018	NAVY	899.448	.000	899.448	-	-	-	-	-	-	74.954	74.954	74.954	74.954	74.954	74.954	74.954	74.954	74.954	74.954	74.954	74.954	74.954	74.954								.000			
1.1.2) (Q4050) 20MM LINKLESS, HEI																																					
Prior Years Deliveries: 3943586																																					
✓	2	2015	NAVY	160.046	160.046	.000																												.000			
	2	2016	NAVY	346.341	346.341	.000																												.000			
✓	2	2016	NAVY	162.737	57.500	105.237	57.500	47.737																										.000			
✓	2	2019	NAVY	216.094	.000	216.094											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.007	18.007	18.007	162.073		
1.1.3) (Q4060) 20MM LINKED, TP ⁽²⁾																																					
Prior Years Deliveries: 3487273																																					
	3	2017	NAVY	321.578	.000	321.578	-	-	35.730	35.730	35.730	35.730	35.730	35.730	35.730	35.730	35.738																	.000			
	3	2019	NAVY	496.037	.000	496.037											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.301	41.301	41.301	372.134		
1.1.5) (Q4080) 20MM LINKLESS, TP-T ⁽³⁾																																					
Prior Years Deliveries: 875545																																					
	4	2016	NAVY	332.527	332.527	.000																												.000			
	4	2018	NAVY	87.209	.000	87.209	-	-	-	-	-	-	7.267	7.267	7.267	7.267	7.267	7.267	7.267	7.268	7.268	7.268	7.268	7.268	7.268								.000				
1.1.8) (Q4200) INERT ROUND																																					
Prior Years Deliveries: 35251																																					
	5	2017	NAVY	4.842	4.842	.000																												.000			
	5	2018	NAVY	4.748	.000	4.748	-	-	-	-	-	-	4.748																					.000			
	5	2019	NAVY	4.655	.000	4.655								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	4.655								.000	
							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: 1508N / 01 / 1					P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition				Item Number / Title [DODIC]: 1 / Machine Gun Ammunition		

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	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	500,000	2,350,000	3,350,000	0	0	0	0	0	7	12	19
2	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	125,000	1,250,000	2,000,000	0	0	0	0	0	10	12	22
3	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	200,000	800,000	1,200,000	0	0	0	0	0	10	12	22
4	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	50,000	100,000	1,440,000	0	0	0	0	0	7	12	19
5	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	1,000	100,000	500,000	0	0	0	0	0	7	12	19

"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: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0160 / Practice Bombs					
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>)	859.066	41.873	47.027	49.471	0.000	49.471	49.677	51.471	52.741	53.887	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	859.066	41.873	47.027	49.471	0.000	49.471	49.677	51.471	52.741	53.887	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	859.066	41.873	47.027	49.471	0.000	49.471	49.677	51.471	52.741	53.887	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.200 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 purpose of the Practice Bombs budget is to procure a variety of low cost alternative practice bombs components to be utilized in place of live, High Explosive bomb components during training in order to improve aircrew proficiency. The practice bombs support training for ground crews and aviators flying various Navy and Marine Corps aircraft. The munitions procured through this PE/BLI are procured by the Joint Munitions Command, the Single Manager for Conventional Ammunition, with the exception of the Laser Guided Training Round, which is procured by NAVAIR.

The MK-76 is a low cost 25lb tear dropped shaped practice bomb that simulates a MK-82 low drag configuration used by the Navy. The MK-82 is an unguided, low-drag practice bomb. The BLU-109 Inert is a full-scale 2,000lb inert Practice Bomb. Bomb bodies are filled with an inert material and have the same weight, size, center of gravity and ballistics of the live bomb configurations.

The Laser Guided Training Round (LGTR) simulates Laser Guided Weapons and provides a low cost alternative to the use of full scale munitions. The LGTR is capable of replicating the kinematics of LGBs and is suitable for launch from all Navy and Marine Corps aircraft used to deploy LGBs. The round allows the aviator to exercise the coordination between the aircrew and the laser designator and to emulate delivery options and multi-aircraft tactics. The development and retention of this skill set is extensive and the LGTR provides the capability to exercise the system in a cost effective manner.

The Miscellaneous Items line includes low cost items such as M70 series cables, MK-89 Adapters, Landyards, Lugs, Nose Plugs, containers, etc.

The Product Improvement Program (PIP) cost element funds efforts to investigate and incorporate design changes to address manufacturing, production and minor technology insertions to modify and improve practice stores system reliability and producibility.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0160 / Practice Bombs				
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 / Practice Bombs	P-5a, P-21			- / 859.066	- / 41.873	- / 47.027	- / 49.471	- / 0.000	- / 49.471
P-40	Total Gross/Weapon System Cost				- / 859.066	- / 41.873	- / 47.027	- / 49.471	- / 0.000	- / 49.471
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY2019 funds the program's base requirements. The increase in FY2019 funding is for replenishment of inventories where training rounds expenditure has outpaced procurement. The training munitions requirements are based on the needs of the Fleet Aviation Training and Tactical Squadrons and are updated with actual expenditures on annual basis. The munitions are essential in training and retaining weapons delivery proficiency. This budget supports critical Navy Title 10 war reserve/operational, training, and test requirements as identified within the DoD Instruction 3000.04 (Munitions Requirements Process) and OPNAV INST 8011.9 (Navy Munitions Requirements Process). Practice Bomb procurements provide the Fleet subscale and/or inert stores in lieu of significantly more expensive full scale and/or high explosive stores procured with General Purpose Bombs funding; thereby reducing the overall cost in achieving fleet training readiness levels. The annual disbursement of training munitions is done via a Non-Combat Expenditure Allocation (NCEA) and provides the individual units with an allocation under which they plan their annual training syllabuses. Additionally, training/inert munitions support the development, fielding, safety, and quality assurance of Navy munitions and equipment throughout their life cycle. These munitions support the individual and collective training of Active and Reserve Component forces. The annual expenditures of practice stores prepares Naval Aviation units for deployment and is the largest driver of current and future munitions procurement. Procurements are primarily designed to replenish the practice bombs weapons used each year to achieve required readiness levels. Unlike procurement of capital assets, a large percentage of weapons are consumed in annual fleet training expenditures; thereby reducing the ability to simply slide procurements a year in response to budget reductions. Barring a reduction in fleet training expenditures and the correlating readiness degradation, any reductions in practice bomb procurements in a given year will be addressed through increased procurements in the out years to restore inventory to a level adequate to support NCEA and fleet readiness.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0160 / Practice Bombs						Item Number / Title [DODIC]: 1 / Practice Bombs						
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>				859.066		41.873		47.027		49.471		0.000		49.471				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				859.066		41.873		47.027		49.471		0.000		49.471				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				859.066		41.873		47.027		49.471		0.000		49.471				
(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 - Practice Bombs Cost																		
Recurring Cost																		
1.1.1) Q1010 MK-76 ^(†)	71.59	222,125	15.902	-	-	-	74.22	97,157	7.211	75.63	141,703	10.717	-	-	-	75.63	141,703	10.717
1.1.2) Q1040 MK-82 INERT ^(†)	2,254.11	8,768	19.764	2,118.10	4,848	10.269	2,160.00	3,355	7.247	2,203.00	3,840	8.460	-	-	-	2,203.00	3,840	8.460
1.1.3) Q1050 BLU-109 INERT ^(†)	24,075.00	80	1.926	24,858.00	106	2.635	25,036.00	71	1.778	25,537.00	72	1.839	-	-	-	25,537.00	72	1.839
Subtotal: Recurring Cost	-	-	37.592	-	-	12.904	-	-	16.236	-	-	21.016	-	-	-	-	-	21.016
Subtotal: Hardware - Practice Bombs Cost	-	-	37.592	-	-	12.904	-	-	16.236	-	-	21.016	-	-	-	-	-	21.016
Hardware - Precision Guided Practice Bombs Cost																		
Recurring Cost																		
2.1.1) Q1300 LGTR ^(†)	3,174.86	47,363	150.371	3,558.00	7,300	25.973	3,629.00	7,482	27.152	3,701.00	6,688	24.752	-	-	-	3,701.00	6,688	24.752
Subtotal: Recurring Cost	-	-	150.371	-	-	25.973	-	-	27.152	-	-	24.752	-	-	-	-	-	24.752
Subtotal: Hardware - Precision Guided Practice Bombs Cost	-	-	150.371	-	-	25.973	-	-	27.152	-	-	24.752	-	-	-	-	-	24.752
Hardware - Miscellaneous Cost																		
Recurring Cost																		
3.1.1) Q1062 Miscellaneous Items	-	-	4.615	-	-	0.644	-	-	0.656	-	-	0.669	-	-	-	-	-	0.669
Subtotal: Recurring Cost	-	-	4.615	-	-	0.644	-	-	0.656	-	-	0.669	-	-	-	-	-	0.669

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0160 / Practice Bombs						Item Number / Title [DODIC]: 1 / Practice Bombs						
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)
Subtotal: Hardware - Miscellaneous Cost	-	-	4.615	-	-	0.644	-	-	0.656	-	-	0.669	-	-	-	-	-	0.669
Hardware - Prior Years Cost																		
Non Recurring Cost																		
4.1.1) Prior Years	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Prior Years Cost	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Integrated Logistics Cost																		
5.1) Q1800 Practice Bombs ILS	-	-	0.433	-	-	0.085	-	-	0.086	-	-	0.087	-	-	-	-	-	0.087
5.2) Q1800 Precision Guided Practice Bombs ILS	-	-	0.802	-	-	0.133	-	-	0.135	-	-	0.137	-	-	-	-	-	0.137
Subtotal: Support - Integrated Logistics Cost	-	-	1.235	-	-	0.218	-	-	0.221	-	-	0.224	-	-	-	-	-	0.224
Support - Production Engineering Cost																		
6.1) Q1830 Practice Bombs PES	-	-	6.255	-	-	1.043	-	-	1.121	-	-	1.144	-	-	-	-	-	1.144
6.2) Q1830 Precision Guided Practice Bombs PES	-	-	11.839	-	-	0.866	-	-	0.983	-	-	1.003	-	-	-	-	-	1.003
Subtotal: Support - Production Engineering Cost	-	-	18.094	-	-	1.909	-	-	2.104	-	-	2.147	-	-	-	-	-	2.147
Support - Miscellaneous Support Cost																		
7.1) Q1850 Product Improvement Program (PIP)	-	-	9.726	-	-	0.080	-	-	0.511	-	-	0.514	-	-	-	-	-	0.514
7.2) Q1894 Gaging	-	-	1.838	-	-	0.145	-	-	0.147	-	-	0.149	-	-	-	-	-	0.149
Subtotal: Support - Miscellaneous Support Cost	-	-	11.564	-	-	0.225	-	-	0.658	-	-	0.663	-	-	-	-	-	0.663
Gross/Weapon System Cost	-	-	859.066	-	-	41.873	-	-	47.027	-	-	49.471	-	-	0.000	-	-	49.471
(†) 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: 1508N / 01 / 1			P-1 Line Item Number / Title: 0160 / Practice Bombs						Item Number / Title [DODIC]: 1 / Practice Bombs			
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
1.1.1) Q1010 MK-76 ^(†)		2013 ⁽¹⁾	Delfasco, LLC / Afton,TN	C / FFP	JMC, Rock Island, IL	Sep 2015	Jan 2018	114,272	71.56	Y		Feb 2013
1.1.1) Q1010 MK-76 ^(†)		2016	Delfasco, LLC / Afton,TN	C / FFP	JMC, Rock Island, IL	Mar 2016	Mar 2018	107,853	71.56	Y		Feb 2013
1.1.1) Q1010 MK-76 ^(†)		2018	Delfasco, LLC / Afton,TN	C / FFP	JMC, Rock Island, IL	Mar 2018	Mar 2020	97,157	74.22	Y		Feb 2013
1.1.1) Q1010 MK-76 ^(†)		2019	Delfasco, LLC / Afton,TN	C / FFP	JMC, Rock Island, IL	Mar 2019	Mar 2021	141,703	75.63	Y		Feb 2013
1.1.2) Q1040 MK-82 INERT ^(†)		2017	General Dynamics / Garland, TX / MCAAP	SS / FP	JMC, Rock Island, IL	Apr 2017	Apr 2020	4,848	2,118.10	Y		Nov 2013
1.1.2) Q1040 MK-82 INERT ^(†)		2018	General Dynamics / Garland, TX / MCAAP	SS / FP	JMC, Rock Island, IL	Apr 2018	Apr 2021	3,355	2,160.00	Y		Nov 2013
1.1.2) Q1040 MK-82 INERT ^(†)		2019	General Dynamics / Garland, TX / MCAAP	SS / FP	JMC, Rock Island, IL	Apr 2019	Apr 2022	3,840	2,203.00	Y		Nov 2013
1.1.3) Q1050 BLU-109 INERT ^(†)		2016	EllWood National Forge / Irvine, PA/MCAAP	C / FFP	JMC, Rock Island, IL	Jan 2016	Jan 2019	80	24,072.00	Y		Apr 2015
1.1.3) Q1050 BLU-109 INERT ^(†)		2017	EllWood National Forge / Irvine, PA/MCAAP	C / FFP	JMC, Rock Island, IL	Jan 2017	Jan 2020	106	24,858.00	Y		Apr 2015
1.1.3) Q1050 BLU-109 INERT ^(†)		2018	EllWood National Forge / Irvine, PA/MCAAP	C / FFP	JMC, Rock Island, IL	Jan 2018	Jan 2021	71	25,036.00	Y		Apr 2015
1.1.3) Q1050 BLU-109 INERT ^(†)		2019	EllWood National Forge / Irvine, PA/MCAAP	C / FFP	JMC, Rock Island, IL	Jan 2019	Jan 2022	72	25,537.00	Y		Apr 2015
2.1.1) Q1300 LGTR ^(†)		2016 ⁽²⁾	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2016	Jan 2018	7,410	3,489.20	Y		Apr 2013
2.1.1) Q1300 LGTR ^(†)		2017	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2017	Jan 2019	7,300	3,558.00	Y		Feb 2015
2.1.1) Q1300 LGTR ^(†)		2018	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2018	Jan 2020	7,482	3,629.00	Y		Feb 2015
2.1.1) Q1300 LGTR ^(†)		2019	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2019	Jan 2021	6,688	3,701.00	Y		Feb 2015

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ The FY2013 Contract awarded in February 2014 originally; the delivery date slipped due to protest. The contract was planned to re-award in September 2014; however, another protest was submitted. The award date on the P5a can not be updated due to system limitations, acutal award date was Jan 7, 2016.

⁽²⁾ LGTR date of first delivery updated from July 2017 to Jan 2018 based of contract award.

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0160 / Practice Bombs												Item Number / Title [DODIC]: 1 / Practice Bombs												
Cost Elements (Units in Thousands)							Fiscal Year 2015										Fiscal Year 2016										BALANCE				
OCCO	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
1.1.1) Q1010 MK-76																															
	1	2013	NAVY	114.272	.000	114.272													A -	-	-	-	-	-	-	-	-	-	-	-	114.272
	1	2016	NAVY	107.853	.000	107.853																		A -	-	-	-	-	-	-	107.853
	1	2018	NAVY	97.157	.000	97.157																									97.157
	1	2019	NAVY	141.703	.000	141.703																									141.703
1.1.2) Q1040 MK-82 INERT																															
Prior Years Deliveries: 8768																															
	2	2017	NAVY	4.848	.000	4.848																									4.848
	2	2018	NAVY	3.355	.000	3.355																									3.355
	2	2019	NAVY	3.840	.000	3.840																									3.840
1.1.3) Q1050 BLU-109 INERT																															
	3	2016	NAVY	.080 ⁽³⁾	.000	.080														A -	-	-	-	-	-	-	-	-	-	-	.080
	3	2017	NAVY	.106	.000	.106																									.106
	3	2018	NAVY	.071	.000	.071																									.071
	3	2019	NAVY	.072	.000	.072																									.072
2.1.1) Q1300 LGTR																															
Prior Years Deliveries: 39953																															
	4	2016	NAVY	7.410	.000	7.410																		A -	-	-	-	-	-	-	7.410
	4	2017	NAVY	7.300	.000	7.300																									7.300
	4	2018	NAVY	7.482	.000	7.482																									7.482
	4	2019	NAVY	6.688	.000	6.688																									6.688
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0160 / Practice Bombs										Item Number / Title [DODIC]: 1 / Practice Bombs																
Cost Elements (Units in Thousands)							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																			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP					
1.1.1) Q1010 MK-76																																				
	1	2013	NAVY	114.272	.000	114.272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.239	9.570	9.239	9.239	9.239	9.239	9.239	9.239	9.239	30.790					
	1	2016	NAVY	107.853	.000	107.853	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.536	8.856	8.872	8.548	9.865	9.654	9.342	44.180					
	1	2018	NAVY	97.157	.000	97.157															A -				-	-	-	-	-	-	-	97.157				
	1	2019	NAVY	141.703	.000	141.703																											141.703			
1.1.2) Q1040 MK-82 INERT																																				
Prior Years Deliveries: 8768																																				
	2	2017	NAVY	4.848	.000	4.848															A -				-	-	-	-	-	-	-	-	-	-	4.848	
	2	2018	NAVY	3.355	.000	3.355																			A -				-	-	-	-	-	-	-	3.355
	2	2019	NAVY	3.840	.000	3.840																											3.840			
1.1.3) Q1050 BLU-109 INERT																																				
	3	2016	NAVY	.080 ⁽³⁾	.000	.080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.080					
	3	2017	NAVY	.106	.000	.106															A -				-	-	-	-	-	-	-	-	-	-	-	.106
	3	2018	NAVY	.071	.000	.071																			A -				-	-	-	-	-	-	-	.071
	3	2019	NAVY	.072	.000	.072																											.072			
2.1.1) Q1300 LGTR																																				
Prior Years Deliveries: 39953																																				
	4	2016	NAVY	7.410	.000	7.410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.618	.618	.618	.618	.618	.618	.617	.617	.617	1.851					
	4	2017	NAVY	7.300	.000	7.300															A -				-	-	-	-	-	-	-	-	-	-	7.300	
	4	2018	NAVY	7.482	.000	7.482																			A -				-	-	-	-	-	-	-	7.482
	4	2019	NAVY	6.688	.000	6.688																											6.688			
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0160 / Practice Bombs										Item Number / Title [DODIC]: 1 / Practice Bombs																				
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2019										Fiscal Year 2020													B A L A N C E										
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 8	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									
1.1.1) Q1010 MK-76																																								
	1	2013	NAVY	114.272	83.482	30.790	10.239	10.775	9.776																													.000		
	1	2016	NAVY	107.853	63.673	44.180	9.784	8.345	8.657	8.742	8.652																													.000
	1	2018	NAVY	97.157	.000	97.157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.098	7.098	7.097	7.096	7.096	8.340	8.332	45.000								
	1	2019	NAVY	141.703	.000	141.703						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	141.703								
1.1.2) Q1040 MK-82 INERT																																								
Prior Years Deliveries: 8768																																								
	2	2017	NAVY	4.848	.000	4.848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.404	.404	.404	.404	.404	.404	2.424								
	2	2018	NAVY	3.355	.000	3.355	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.355								
	2	2019	NAVY	3.840	.000	3.840						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.840									
1.1.3) Q1050 BLU-109 INERT																																								
	3	2016	NAVY	.080 ⁽³⁾	.000	.080	-	-	-	.080																													.000	
	3	2017	NAVY	.106	.000	.106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.106											.000						
	3	2018	NAVY	.071	.000	.071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.071								
	3	2019	NAVY	.072	.000	.072						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.072								
2.1.1) Q1300 LGTR																																								
Prior Years Deliveries: 39953																																								
	4	2016	NAVY	7.410	5.559	1.851	.617	.617	.617																													.000		
	4	2017	NAVY	7.300	.000	7.300	-	-	-	.600	.600	.600	.600	.600	.600	.600	.600	.625	.625	.625	.625											.000								
	4	2018	NAVY	7.482	.000	7.482	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.624	.623	.623	.623	.623	.623	.623	.623	.628	.623	1.869								
	4	2019	NAVY	6.688	.000	6.688						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.688								
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0160 / Practice Bombs										Item Number / Title [DODIC]: 1 / Practice Bombs													
Cost Elements (Units in Thousands)							Fiscal Year 2021										Fiscal Year 2022										BALANCE						
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021										Calendar Year 2022																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP		
1.1.1) Q1010 MK-76																																	
	1	2013	NAVY	114.272	114.272	.000																											.000
	1	2016	NAVY	107.853	107.853	.000																											.000
	1	2018	NAVY	97.157	52.157	45.000	9.000	9.000	9.000	9.000	9.000																						.000
	1	2019	NAVY	141.703	.000	141.703	-	-	-	-	-	11.815	11.808	11.808	11.808	11.808	11.808	11.808	11.808	11.808	11.808	11.808											.000
1.1.2) Q1040 MK-82 INERT																																	
Prior Years Deliveries: 8768																																	
	2	2017	NAVY	4.848	2.424	2.424	.404	.404	.404	.404	.404	.404																					.000
	2	2018	NAVY	3.355	.000	3.355	-	-	-	-	-	-	.296	.266	.296	.296	.296	.296	.296	.296	.296	.296	.213	.212									.000
	2	2019	NAVY	3.840	.000	3.840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.320	.320	.320	.320	.320	.320	1.920		
1.1.3) Q1050 BLU-109 INERT																																	
	3	2016	NAVY	.080 ⁽³⁾	.080	.000																											.000
	3	2017	NAVY	.106	.106	.000																											.000
	3	2018	NAVY	.071	.000	.071	-	-	-	.071																							.000
	3	2019	NAVY	.072	.000	.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.008	.008	.008	.008	.008	.008	.008	.008	-	.004	.012		
2.1.1) Q1300 LGTR																																	
Prior Years Deliveries: 39953																																	
	4	2016	NAVY	7.410	7.410	.000																											.000
	4	2017	NAVY	7.300	7.300	.000																											.000
	4	2018	NAVY	7.482	5.613	1.869	.623	.623	.623																								.000
	4	2019	NAVY	6.688	.000	6.688	-	-	-	.561	.557	.557	.557	.557	.557	.557	.557	.557	.557	.557	.557	.557											.000
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0160 / Practice Bombs													Item Number / Title [DODIC]: 1 / Practice Bombs								
Cost Elements (Units in Thousands)							Fiscal Year 2023												Fiscal Year 2024												BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.1.1) Q1010 MK-76																															
	1	2013	NAVY	114.272	114.272	.000																									.000
	1	2016	NAVY	107.853	107.853	.000																									.000
	1	2018	NAVY	97.157	97.157	.000																									.000
	1	2019	NAVY	141.703	141.703	.000																									.000
1.1.2) Q1040 MK-82 INERT																															
Prior Years Deliveries: 8768																															
	2	2017	NAVY	4.848	4.848	.000																									.000
	2	2018	NAVY	3.355	3.355	.000																									.000
	2	2019	NAVY	3.840	1.920	1.920	.320	.320	.320	.320	.320	.320																			.000
1.1.3) Q1050 BLU-109 INERT																															
	3	2016	NAVY	.080 ⁽³⁾	.080	.000																									.000
	3	2017	NAVY	.106	.106	.000																									.000
	3	2018	NAVY	.071	.071	.000																									.000
	3	2019	NAVY	.072	.060	.012	.004	.004	.004																						.000
2.1.1) Q1300 LGTR																															
Prior Years Deliveries: 39953																															
	4	2016	NAVY	7.410	7.410	.000																									.000
	4	2017	NAVY	7.300	7.300	.000																									.000
	4	2018	NAVY	7.482	7.482	.000																									.000
	4	2019	NAVY	6.688	6.688	.000	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: 1508N / 01 / 1				P-1 Line Item Number / Title: 0160 / Practice Bombs				Item Number / Title [DODIC]: 1 / Practice Bombs			

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	Delfasco, LLC - Afton, TN	40,000	200,000	300,000	0	0	0	0	0	6	24	30
2	General Dynamics - Garland, TX / MCAAP	21,359	38,544	100,200	0	0	0	0	0	7	36	43
3	EllWood National Forge - Irvine, PA/MCAAP	1,344	2,323	6,480	0	0	0	0	0	4	36	40
4	Lockheed Martin Corporation LGTR - Archbald, PA	4,000	8,400	22,000	0	0	0	0	0	6	22	28

"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:

⁽³⁾ BLU 109 procurements are combined with production requirements from other services; therefore, USN production rates may reflect quantities below Minimum Sustainment Rates (MSR).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices					
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>)	759.216	48.510	57.718	56.227	5.334	61.561	56.192	57.341	58.480	59.698	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	759.216	48.510	57.718	56.227	5.334	61.561	56.192	57.341	58.480	59.698	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	759.216	48.510	57.718	56.227	5.334	61.561	56.192	57.341	58.480	59.698	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2019 funding request was reduced by \$0.319 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. Cartridge Actuated Devices/Propellant Actuated Devices (CAD/PAD) program's mission is to procure 676 distinct life-limited energetic devices utilized in aircraft egress and safety systems, personnel gear, and to release a weapon or other store from the United States Navy and United States Marine Corps aircraft platforms. The CAD/PAD yearly requirement is modeled upon the active aircraft in Office of the Naval Operations' (OPNAV) All report and the assigned service life of the individual CAD/PADs. Due to the individually unique service lives, the yearly requirement of items and their respective quantities is variable. Reduced inventory pipeline and decreased stock levels, in some cases down to zero stock availability, has significantly increased the need for service life extensions on critical components. Hardware-Stores Release: Stores Release cartridges are utilized to release weapons and other stores from aircraft. The CCU-107 is utilized to release "light" weapons/stores from aircraft. The CCU-45 (MD65) is utilized to release "heavy" weapons/stores. Hardware-Safety: Items such as safety/arming devices, sequence controls, shielded mild detonating cords, gas generators, initiators, thrusters, fire extinguisher cartridges, thermal batteries, rocket motors, catapults, and more, are used in aircraft emergency escape and safety systems. These explosives have finite service lives and are replaced during scheduled maintenance. An aircraft may be grounded if a single one of these items does not meet standard. Other items procured such as FLU-12/P Deck Crew Life Vest Inflator and the FLU-8B/P automatic life vest inflator are essential to crew survival after ejection or being thrown overboard. T-6A (JPATS): Funding provides Under Seat Rocket Motor, Impulse Cartridge, Internal Canopy Mechanical Actuated Initiator, Seat Movement Mechanical Actuated Initiator, External Canopy Mechanical Actuated Initiator, Laser Initiator, Donor Assembly, Manifolds, Shielded Mild Detonating Cord Transfer Line and Holder Assembly. Misc. Devices Under \$500k: Safety CAD/PAD devices typically priced under \$500k are procured yearly under this budget line, not limited to, but include: 1W18 Explosive Separator, JL96 Rocket Catapult, MJ98 Cartridge Actuated Initiator, SU58 Mild Detonating Cord Set, XW53 Explosive Sequence Control. Misc. Devices consist of roughly 608 unique components which range from \$0.160k to \$20k; The unit cost varies based on quantities procured which cause constant deviations from budget to budget for planned procurements.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices				
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	Cartridge Actuated Devices/Propellant Act Devices	P-5a, P-21			- / 759.216	- / 48.510	- / 57.718	- / 56.227	- / 5.334	- / 61.561
P-40	Total Gross/Weapon System Cost				- / 759.216	- / 48.510	- / 57.718	- / 56.227	- / 5.334	- / 61.561
*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: FY 2019 funding is required to support fleet requirements that take into account the aircraft inventory, maintenance cycle and aircraft installed Cartridge Actuated Devices/Propellant Act Devices (CAD/PAD) data, service life data, on-hand inventory data, procurement lead-time data, historical cost data and projected contract delivery date data. Funding is also required for engineering and lot acceptance testing regarding devices needed for change-outs. Product improvement programs are scheduled to produce the safety devices required to support aircraft ejection systems, fire suppression systems and stores release systems. The yearly requirements are modeled based upon the active aircraft in the OPNAV A-II report, which feeds into the CAD/PAD Requirements Determination Module (RDM). The RDM accounts for the changing number of aircraft, platform availability, and unique component service lives of all procured commodities and respective quantities, which are variable from year to year. OCO: FY 2019 Overseas Contingency Operations (OCO) funding is required for CAD/PAD Under Seat Rocket Motors (USRM), Impulse Cartridges, Egress Initiators, Parachute Deployment Rocket Motors (PDRM), Ejection Seats, and Miscellaneous Devices in order to replenish inventory in support of Operation Inherent Resolve (OIR).										

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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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices								Aggregated Items Title: Cartridge Actuated Devices/Propellant Act Devices					
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) Hardware-Stores Release																				
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ^(†)	A		25.53	342,960	8.756	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^(†)	A		8.41	629,760	5.299	9.30	40,000	0.372	8.46	40,000	0.338	8.62	40,000	0.345	-	-	-	8.62	40,000	0.345
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ^{(1)(†)}	A		8.66	395,618	3.427	16.00	16,576	0.265	9.38	19,576	0.184	9.55	19,576	0.187	-	-	-	9.55	19,576	0.187
Subtotal: 1) Hardware-Stores Release			-	-	17.482	-	-	0.637	-	-	0.522	-	-	0.532	-	-	-	-	-	0.532
2) Hardware Safety																				
2.1) (Q8060) Thermal Battery (CWDR) ^(†)	A		4,605.95	1,312	6.043	4,602.51	200	0.921	4,788.45	200	0.958	4,840.00	200	0.968	-	-	-	4,840.00	200	0.968
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) - NSWC, Indian Head ^(†)	A		1,933.81	2,100	4.061	963.08	650	0.626	-	-	-	-	-	-	-	-	-	-	-	
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ^{(2)(†)}	A		3,569.40	4,582	16.355	3,406.30	553	1.884	4,280.13	921	3.942	4,357.22	921	4.013	4,357.22	642	2.797	4,357.22	1,563	6.810
2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30) ^{(3)(†)}	A		9,660.19	309	2.985	9,368.68	24	0.225	10,277.78	18	0.185	10,320.00	25	0.258	10,320.00	8	0.083	10,320.00	33	0.341
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^{(4)(†)}	A		9,542.25	426	4.065	8,324.32	37	0.308	10,285.71	28	0.288	9,750.00	60	0.585	9,750.00	18	0.176	9,750.00	78	0.761
2.6) (Q8140) FLU-8/9/12 Inflators (FW98/BY81JL09) ⁽⁵⁾	A		-	-	15.277	-	-	1.500	-	-	1.530	-	-	1.561	-	-	-	-	-	1.561
2.7) (Q8160) JAU-74 INIT/CCU-146 CTG (WB15/16) ⁽⁶⁾	A		-	-	14.171	-	-	1.322	-	-	1.737	-	-	1.485	-	-	1.373	-	-	2.858
2.8) (Q8180) F-18 DIFRS (SR95/WB19) ⁽⁷⁾	A		-	-	10.161	-	-	0.945	-	-	1.012	-	-	0.748	-	-	-	-	-	0.748
2.9) (Q8300) Navy Aircrew Common Ejection Seats ⁽⁸⁾	A		-	-	11.916	-	-	2.408	-	-	1.719	-	-	1.462	-	-	0.008	-	-	1.470

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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: 1508N / 01 / 1								P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices								Aggregated Items Title: Cartridge Actuated Devices/Propellant Act Devices				
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)
2.10) (Q8301) F-18E/ F/G & V-22 Fire Suppression Gas ⁽⁹⁾	A		-	-	18.156	-	-	2.446	-	-	3.526	-	-	5.000	-	-	-	-	-	5.000
2.11) (Q8302) T-6A (JPATS) CAD/PADs ⁽¹⁰⁾	A		-	-	33.190	-	-	10.600	-	-	10.812	-	-	11.028	-	-	-	-	-	11.028
Subtotal: 2) Hardware Safety			-	-	136.380	-	-	23.185	-	-	25.709	-	-	27.108	-	-	4.437	-	-	31.545
3) Hardware-Misc. Devices																				
3.1) (Q8600) Misc. Devices Under \$500k ⁽¹¹⁾	A		-	-	98.791	-	-	11.513	-	-	18.080	-	-	15.209	-	-	0.897	-	-	16.106
Subtotal: 3) Hardware-Misc. Devices			-	-	98.791	-	-	11.513	-	-	18.080	-	-	15.209	-	-	0.897	-	-	16.106
4) (Q8800) Intergrated Logistics Support																				
4.1) Stores Release ILS	A		-	-	1.433	-	-	0.254	-	-	0.259	-	-	0.264	-	-	-	-	-	0.264
4.2) Safety ILS	A		-	-	5.071	-	-	0.825	-	-	0.841	-	-	0.857	-	-	-	-	-	0.857
4.3) Misc. Devices ILS	A		-	-	2.512	-	-	0.300	-	-	0.306	-	-	0.312	-	-	-	-	-	0.312
Subtotal: 4) (Q8800) Intergrated Logistics Support			-	-	9.016	-	-	1.379	-	-	1.406	-	-	1.433	-	-	-	-	-	1.433
5) (Q8820) Reliability Life																				
5.1) Stores Release Reliability Life	A		-	-	0.801	-	-	0.132	-	-	0.135	-	-	0.137	-	-	-	-	-	0.137
5.2) Safety Reliability Life	A		-	-	2.602	-	-	0.307	-	-	0.302	-	-	0.309	-	-	-	-	-	0.309
5.3) Misc. Devices Reliability Life	A		-	-	1.497	-	-	0.159	-	-	0.162	-	-	0.165	-	-	-	-	-	0.165
Subtotal: 5) (Q8820) Reliability Life			-	-	4.900	-	-	0.598	-	-	0.599	-	-	0.611	-	-	-	-	-	0.611
6) (Q8830) Production Engineering																				
6.1) Stores Release PES	A		-	-	6.007	-	-	1.126	-	-	1.149	-	-	1.169	-	-	-	-	-	1.169
6.2) Safety PES	A		-	-	20.417	-	-	3.414	-	-	3.479	-	-	3.405	-	-	-	-	-	3.405
6.3) Misc. Devices PES	A		-	-	7.660	-	-	0.769	-	-	0.784	-	-	0.799	-	-	-	-	-	0.799
Subtotal: 6) (Q8830) Production Engineering			-	-	34.084	-	-	5.309	-	-	5.412	-	-	5.373	-	-	-	-	-	5.373
7) (Q8840) Quality Assurance																				
7.1) Stores Release QA	A		-	-	0.784	-	-	0.136	-	-	0.138	-	-	0.140	-	-	-	-	-	0.140
7.2) Safety QA	A		-	-	2.855	-	-	0.435	-	-	0.442	-	-	0.450	-	-	-	-	-	0.450
7.3) Misc. Devices QA	A		-	-	1.374	-	-	0.165	-	-	0.168	-	-	0.171	-	-	-	-	-	0.171

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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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices								Aggregated Items Title: Cartridge Actuated Devices/Propellant Act Devices					
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: 7) (Q8840) Quality Assurance			-	-	5.013	-	-	0.736	-	-	0.748	-	-	0.761	-	-	-	-	-	0.761
8) (Q8850) Product Improvement																				
8.1) Stores Release PIP	A		-	-	3.412	-	-	0.602	-	-	0.611	-	-	0.624	-	-	-	-	-	0.624
8.2) Safety PIP	A		-	-	12.556	-	-	2.054	-	-	2.085	-	-	1.983	-	-	-	-	-	1.983
8.3) Misc. Devices PIP	A		-	-	5.979	-	-	0.707	-	-	0.721	-	-	0.734	-	-	-	-	-	0.734
Subtotal: 8) (Q8850) Product Improvement			-	-	21.947	-	-	3.363	-	-	3.417	-	-	3.341	-	-	-	-	-	3.341
9) (Q8860) Acceptance Testing																				
9.1) Stores Release Acceptance Testing	A		-	-	3.103	-	-	0.458	-	-	0.467	-	-	0.476	-	-	-	-	-	0.476
9.2) Safety Acceptance Testing	A		-	-	9.697	-	-	0.770	-	-	0.785	-	-	0.800	-	-	-	-	-	0.800
9.3) Misc. Devices Acceptance Testing	A		-	-	6.171	-	-	0.562	-	-	0.573	-	-	0.583	-	-	-	-	-	0.583
Subtotal: 9) (Q8860) Acceptance Testing			-	-	18.971	-	-	1.790	-	-	1.825	-	-	1.859	-	-	-	-	-	1.859
10) Prior Years																				
10.1) Prior Years Cumulative Funding	A		-	-	412.632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 10) Prior Years			-	-	412.632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	759.216	-	-	48.510	-	-	57.718	-	-	56.227	-	-	5.334	-	-	61.561

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) 1.3 (Q8201) CCU-45 Impulse CTG (MD65) FY19 requirement of 19,576 units is based on historical item usage rates which determine sufficient inventory on hand to support effort.

(2) 2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) - Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates.

(3) 2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30) - Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates.

(4) 2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) - Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates.

(5) 2.6) (Q8140) FLU-8/9/12 Inflators - The FLU-8/9/12 cost element only funds 2 of the 3 items now: the FLU-8 (FW98 - used on the LPU-23 and LPU-36 Life Preservers) and the FLU-12 (JL09 - used on the MK-1 Life Preserver) Automatic Inflation Devices. Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates.

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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: 1508N / 01 / 1	P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices	Aggregated Items Title: Cartridge Actuated Devices/Propellant Act Devices
⁽⁶⁾ 2.7) (Q8160) JAU-74 INIT / CCU-146 CTG (WB15/16) cost element funds 2 items. Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates. ⁽⁷⁾ 2.8) (Q8180) F-18 DIFRS (SR95/WB19) - Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates. ⁽⁸⁾ 2.9) (Q8300) Navy Aircrew Common Ejection Seats - cost element funds 7 items - Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates. ⁽⁹⁾ 2.10)(Q8301) F-18/E/F/G and V-22 Fire Suppression Gas - this cost element funds 6 items - Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates. ⁽¹⁰⁾ 2.11) (Q8302) T-6A (JPATS) CAD/PADs cost element funds 28 safety CAD/PAD items that are unique to the T-6 and are awarded over 5 contracts. These devices are within the aircraft's escape and safety systems. Fluctuations in the requirements across the FYDP are based on the Fleet's actual need. Requirements are determined using the number of active aircraft in the OPNAV A-II report and then processed in the Requirements Determination Model which calculates the requirements using the unique service life data, on-hand inventory, procurement lead times, historical cost and projected contract delivery dates. ⁽¹¹⁾ 3.1) (Q8600) Misc. Devices Under \$500k cost element - Fluctuations to the MISC Devices Under \$500K to support fleet requirements to replenish diminishing inventory as a result of active aircraft, platform availability and component service life. The number of active aircraft reported in the OPNAV A-II report that CAD/PAD supports directly correlates to fluctuations in requirements to ensure adequate assets are available for Fleet support and operational readiness.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices					Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices			
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) Hardware-Stores Release												
1.1) (Q8090) JAU-22/B Initiator CTG (MF64)		2016	AMTEC CORPORATION / JANESVILLE, WI	C / FP	NAVSUP	Jan 2016	Jan 2017	9,960	39.16	Y		Oct 2015
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^(†)		2016	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Jul 2016	Jul 2017	19,760	10.73	Y		Oct 2015
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^(†)		2017	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Mar 2017	Mar 2018	40,000	9.30	Y		Oct 2016
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^(†)		2018	TBD / TBD	C / FP	NAVSUP	May 2018	May 2019	40,000	8.46	Y		Oct 2017
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^(†)		2019	TBD / TBD	C / FP	NAVSUP	May 2019	May 2020	40,000	8.62	Y		Oct 2018
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽¹⁾		2016	AMTEC Corporation / Clear Lake, SD	C / FP	NAVSUP	Sep 2016	Jan 2018	16,575	17.50	Y		Oct 2015
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽¹⁾		2017	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	May 2017	May 2018	16,576	16.00	Y		Oct 2016
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽¹⁾		2018	TBD / TBD	C / FP	NAVSUP	Apr 2018	Apr 2019	19,576	9.38	Y		Oct 2017
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽¹⁾		2019	TBD / TBD	C / FP	NAVSUP	Apr 2019	Apr 2020	19,576	9.55	Y		Oct 2018
2) Hardware Safety												
2.1) (Q8060) Thermal Battery (CWDR)		2016 ⁽¹²⁾	TBD / TBD	C / FP	NAVSUP	Apr 2018	Apr 2019	200	4,602.51	Y		Aug 2016
2.1) (Q8060) Thermal Battery (CWDR)		2017 ⁽¹³⁾	TBD / TBD	C / FP	NAVSUP	Apr 2018	Apr 2019	200	4,602.51	Y		Aug 2016
2.1) (Q8060) Thermal Battery (CWDR)		2018 ⁽¹⁴⁾	TBD / TBD	C / FP	NAVSUP	Jun 2018	Jun 2019	200	4,788.45	Y		Oct 2017
2.1) (Q8060) Thermal Battery (CWDR)		2019	TBD / TBD	C / FP	NAVSUP	Apr 2019	Apr 2020	200	4,840.00	Y		Dec 2018
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) - NSWC, Indian Head		2016	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2016	Mar 2017	300	2,046.67	Y		
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) - NSWC, Indian Head		2017	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2017	Mar 2018	650	963.08	Y		
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ^{(2)(†)}		2016	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Jan 2017	Jan 2018	500	4,226.00	Y		Oct 2015

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices					Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices				
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
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ^{(2)(†)}		2017	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2017	Apr 2018	553	3,406.30	Y		Oct 2016
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ^{(2)(†)}		2018	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2018	Apr 2019	921	4,280.13	Y		Oct 2017
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ^{(2)(†)}		2019	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2019	Apr 2020	921	4,357.22	Y		Oct 2018
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ^{(2)(†)}	✓	2019	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2019	Apr 2020	642	4,357.22	Y		Oct 2018
2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30) ⁽³⁾		2016 ⁽¹⁵⁾	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Sep 2016	Apr 2018	88	9,875.00	Y		Oct 2015
2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30) ⁽³⁾		2017 ⁽¹⁶⁾	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Dec 2016	Jul 2018	24	9,368.68	Y		Oct 2016
2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30) ⁽³⁾		2018	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2018	Jul 2019	18	10,277.78	Y		Oct 2017
2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30) ⁽³⁾		2019	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2019	Jul 2020	25	10,320.00	Y		Oct 2018
2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30) ⁽³⁾	✓	2019	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2019	Jul 2020	8	10,320.00	Y		Oct 2018
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^{(4)(†)}		2016 ⁽¹⁷⁾	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Sep 2016	Apr 2018	131	9,877.86	Y		Oct 2015
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^{(4)(†)}		2017 ⁽¹⁸⁾	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Dec 2016	Jul 2018	37	8,324.32	Y		Oct 2016
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^{(4)(†)}		2018	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2018	Jul 2019	28	10,285.71	Y		Oct 2017
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^{(4)(†)}		2019	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2019	Jul 2020	60	9,750.00	Y		Oct 2018
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^{(4)(†)}	✓	2019	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2019	Jul 2020	18	9,750.00	Y		Oct 2018
†) indicates the presence of a P-21												
Footnotes: ⁽¹²⁾ Award date slipped to April 2018 due to material obsolescence issue and qualification schedule for replacement item and vendor. Procurements for FY16-FY17 will be combined in one procurement. Delay of contract award causes delay of delivery to April 2019												

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices	Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices
(13) Award date slipped to April 2018 due to material obsolescence issue and qualification schedule for replacement item and vendor. Procurements for FY16-FY17 will be combined in one procurement. Delay of contract award causes delay of delivery to April 2019 (14) Award date slipped to June 2018 due to material obsolescence issue and qualification schedule for replacement item and vendor. (15) Date of First Delivery has slipped to April 2018 due to production delays at the overseas contractor facility. (16) Date of First Delivery has slipped to July 2018 due to production delays at the overseas contractor facility. (17) Date of First Delivery has slipped to April 2018 due to production delays at the overseas contractor facility. (18) Date of First Delivery has slipped to July 2018 due to production delays at the overseas contractor facility.		

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1									P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices										Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices																							
Items <i>(Units in Thousands)</i>							Fiscal Year 2016										Fiscal Year 2017										B A L A N C E															
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016															Calendar Year 2017																				
							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) Hardware-Stores Release																																										
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92)																																										
Prior Years Deliveries: 610000																																										
	4	2016	NAVY	19.760	.000	19.760											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.647	1.647	1.647	14.819							
	4	2017	NAVY	40.000	.000	40.000																					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.000
	5	2018	NAVY	40.000	.000	40.000																															40.000					
	5	2019	NAVY	40.000	.000	40.000																															40.000					
2) Hardware Safety																																										
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ⁽²⁾																																										
Prior Years Deliveries: 4082																																										
	6	2016	NAVY	.500	.000	.500											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.500							
	6	2017	NAVY	.553	.000	.553																					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	.553	
	6	2018	NAVY	.921	.000	.921																															.921					
	6	2019	NAVY	.921	.000	.921																															.921					
✓	6	2019	NAVY	.642	.000	.642																															.642					
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ⁽⁴⁾																																										
Prior Years Deliveries: 295																																										
	7	2016	NAVY	.131	.000	.131											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.131							
	7	2017	NAVY	.037	.000	.037																					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	.037	
	7	2018	NAVY	.028	.000	.028																															.028					
	7	2019	NAVY	.060	.000	.060																															.060					
✓	7	2019	NAVY	.018	.000	.018																															.018					
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices										Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices																	
Items (Units in Thousands)							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) Hardware-Stores Release																																					
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92)																																					
Prior Years Deliveries: 610000																																					
	4	2016	NAVY	19.760	4.941	14.819	1.647	1.647	1.647	1.647	1.647	1.646	1.646	1.646	1.646																			.000			
	4	2017	NAVY	40.000	.000	40.000	-	-	-	-	-	3.334	3.334	3.334	3.334	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.333									.000				
	5	2018	NAVY	40.000	.000	40.000								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.333	3.333	3.333	3.333	23.335				
	5	2019	NAVY	40.000	.000	40.000																					A -	-	-	-	-	-	40.000				
2) Hardware Safety																																					
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ⁽²⁾																																					
Prior Years Deliveries: 4082																																					
	6	2016	NAVY	.500	.000	.500	-	-	-	.042	.042	.042	.042	.042	.042	.042	.041	.041	.041	.041													.000				
	6	2017	NAVY	.553	.000	.553	-	-	-	-	-	-	.047	.046	.046	.046	.046	.046	.046	.046	.046	.046	.046	.046	.046	.046	.046	.046	.046				.000				
	6	2018	NAVY	.921	.000	.921							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	.076	.076	.076	.077	.077	.077	.462				
	6	2019	NAVY	.921	.000	.921																				A -	-	-	-	-	-	-	.921				
✓	6	2019	NAVY	.642	.000	.642																				A -	-	-	-	-	-	-	.642				
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ⁽⁴⁾																																					
Prior Years Deliveries: 295																																					
	7	2016	NAVY	.131	.000	.131	-	-	-	-	-	-	.010	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011				.000				
	7	2017	NAVY	.037	.000	.037	-	-	-	-	-	-	-	-	-	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.004		.000				
	7	2018	NAVY	.028	.000	.028							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.002	.002	.002	.022					
	7	2019	NAVY	.060	.000	.060																				A -	-	-	-	-	-	-	.060				
✓	7	2019	NAVY	.018	.000	.018																				A -	-	-	-	-	-	-	.018				
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices										Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices														
Items <i>(Units in Thousands)</i>							Fiscal Year 2020										Fiscal Year 2021										BALANCE							
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT				Calendar Year 2020										Calendar Year 2021														
							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) Hardware-Stores Release																																		
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92)																																		
Prior Years Deliveries: 610000																																		
	4	2016	NAVY	19.760	19.760	.000																											.000	
	4	2017	NAVY	40.000	40.000	.000																											.000	
	5	2018	NAVY	40.000	16.665	23.335	3.333	3.333	3.333	3.334	3.334	3.334	3.334																				.000	
	5	2019	NAVY	40.000	.000	40.000	-	-	-	-	-	-	-	3.334	3.334	3.334	3.334	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.333							.000		
2) Hardware Safety																																		
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) ⁽²⁾																																		
Prior Years Deliveries: 4082																																		
	6	2016	NAVY	.500	.500	.000																											.000	
	6	2017	NAVY	.553	.553	.000																											.000	
	6	2018	NAVY	.921	.459	.462	.077	.077	.077	.077	.077	.077																					.000	
	6	2019	NAVY	.921	.000	.921	-	-	-	-	-	-	.076	.076	.076	.077	.077	.077	.077	.077	.077	.077	.077	.077						.000				
✓	6	2019	NAVY	.642	.000	.642	-	-	-	-	-	-	.054	.054	.054	.054	.054	.054	.053	.053	.053	.053	.053	.053							.000			
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31) ⁽⁴⁾																																		
Prior Years Deliveries: 295																																		
	7	2016	NAVY	.131	.131	.000																											.000	
	7	2017	NAVY	.037	.037	.000																											.000	
	7	2018	NAVY	.028	.006	.022	.002	.002	.002	.002	.002	.003	.003	.003	.003																			.000
	7	2019	NAVY	.060	.000	.060	-	-	-	-	-	-	-	-	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005						.000	
✓	7	2019	NAVY	.018	.000	.018	-	-	-	-	-	-	-	-	.002	.002	.002	.002	.002	.002	.002	.001	.001	.001	.001	.001	.001							.000
							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: 1508N / 01 / 1		P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices			Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices

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	Pyrotechnic Specialties - Byron, GA	10,000	100,000	200,000	0	7	12	19	0	6	12	18
2	TBD - TBD	10,000	100,000	200,000	0	7	12	19	0	8	12	20
3	MARTIN-BAKER A/CRT C - MIDDLESEX, GB	100	500	1,250	0	12	12	24	0	7	12	19
4	MARTIN-BAKER A/CFT - MIDDLESEX, GB	15	50	150	0	10	12	22	0	7	15	22

"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: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A				Other Related Program Elements: 0604270N					
Line Item MDAP/MAIS Code: 418												
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>)	1,251.888	63.669	81.608	66.382	36.580	102.962	68.014	69.400	90.428	92.939	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,251.888	63.669	81.608	66.382	36.580	102.962	68.014	69.400	90.428	92.939	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,251.888	63.669	81.608	66.382	36.580	102.962	68.014	69.400	90.428	92.939	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2019 funding request was reduced by \$0.103 million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government. The Air Expendable Countermeasures (AECM) line provides funding for procurement of countermeasure self-protection devices for all Department of Navy (DoN) and United States Marine Corps (USMC) tactical, rotary and other fixed-wing aircraft. AECM supports fleet training, readiness and operational requirements for all DoN and USMC aircraft. The AECM Program is divided into the following threat related groupings: (1) Active Jammers (2) Infrared (IR) Decoys (3) associated impulse cartridges (4) Chaff Countermeasures and (5) F-35 Countermeasures. ACTIVE JAMMERS: Current Active Jammer is ALE-55 Fiber Optic Towed Decoy (FOTD). The FOTD, when integrated with the rest of the F/A-18E/F Electronic Warfare (EW) suite (i.e., ALQ-214, ALR-67(V)3, ALE-47, ALE-50) and with the associated cockpit controls, displays and other avionics, significantly improves the survivability of the host aircraft in a Radio Frequency (RF) threat environment. The FOTD is part of the Integrated Defensive Electronic Countermeasure (IDECM) Radio Frequency Countermeasure (RFCM) Block 3 (IB-3) program. ALE-55 Milestone (MS) III was conducted July 2011. Initial Operational Capability (IOC) was achieved July 2011. FOTD was developed utilizing Research, Development, Test & Evaluation, Navy, Program Element 0604270N, Project Unit 2175. Dual Band Decoy (DBD) is a future active jammer with a development contract scheduled for award in 2019. DBD will replace the ALE-55 FOTD and significantly improve F/A-18E/F survivability against emerging radar guided threats. DBD will utilize Research, Development, Test & Evaluation, Navy, Program Element 0604270N, Project Unit 2175. IR DECOYS: The MJU-49/32/38 are currently used by all aircraft except the KC130J/T to provide self-protection from surface-to-air/air-to-air IR missiles. The MJU-61 and MJU-64 are used on the KC-130J/T, UC-35D, UC-12W and F-35 aircraft to provide self-protection from surface-to-air/air-to-air IR missiles. The SM-875 is a dedicated, low cost training device. The MJU-61 is also a low cost F-35 training device. The MJU-57 provides a kinematic IR Countermeasure to defeat specific Man-Portable Air Defense Systems (MANPADS) used on the F/A-18, MV-22 and KC-130J. Procurement of MJU-66 advanced spectral countermeasure began in FY 2013 in support of KC-130J/T and UC-35D. The MJU-67 Multi-spectral flare provides an enhanced spectral signature required for DoN aircraft self-protection against accelerated proliferation of MANPADS including the threat addressed in JUONS SO-0010. IMPULSE CARTRIDGES: Used to propel the self-protection devices away from the aircraft. The CCU-136 is used by all airframes except the KC-130J/T, UC-12W and UC-35D. The CCU-145 is used on KC-130J/T, UC-35D, UC-12W and F-35.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604270N
Line Item MDAP/MAIS Code: 418		
CHAFF COUNTERMEASURES: The RR-129 is the operational round used on all Navy aircraft platforms. The RR-144 is a dedicated training round used on all airframes except the USMC KC-130J/T, UC-12W and UC-35D. The RR-144 training round does not interfere with Federal Aviation Administration (FAA) tracking radars. The RR-170 is the operational round procured in support of the KC-130J/T, UC-12W and UC-35D. The RR-XXX is a future chaff countermeasure addressing survivability against emerging radio frequency threats. The RR-XXX will implement technology from Small Business Innovation Research (SBIR) N152-082 and utilize Research, Development, Test & Evaluation, Navy, Program Element 0604270N, Project Unit 3309 to transition to an operational chaff device. F-35 COUNTERMEASURES: PMA272 operating under a PEO(JSF)-PEO(T) Memorandum of Agreement will procure F-35 countermeasures for all global participants under a combined contracting strategy to gain unit price efficiencies while meeting global operational requirements. F-35 program includes unique countermeasures that provide self-protection for the Joint Strike Fighter (JSF) aircraft, specifically ALE-70 and MJU-68. In addition to F-35 unique countermeasures, MJU-64 are also used for F-35 self-protection.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: 0604270N				
Line Item MDAP/MAIS Code: 418										
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	Air Expendable Countermeasures	P-5a, P-21			- / 1,251.888	- / 63.669	- / 81.608	- / 66.382	- / 36.580	- / 102.962
P-40	Total Gross/Weapon System Cost				- / 1,251.888	- / 63.669	- / 81.608	- / 66.382	- / 36.580	- / 102.962
*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: FY 2019 baseline funding is required to procure Active Jammers, Infrared (IR) Decoys, Impulse Cartridges, Chaff Countermeasures, F-35 Countermeasures and associated support for Department of Navy (DoN) and United States Marine Corps (USMC) tactical, rotary and other fixed-wing aircraft to meet Fleet inventory levels requirements, based on Naval Munitions Requirements Process (NMRP) combat requirement. These proven countermeasure devices provide pre-emptive or terminal and reactive self-protection for all Navy and Marine Corps strike, assault, rotary wing, and other fixed wing aircraft from Radio Frequency (RF) or IR guided missile attack and other advanced threats. In accordance with Operational Requirement Document (ORD): # 512-88-89 dated 28 May 99, Air Expendable Countermeasures program is tasked with maintaining an operationally effective mixture of countermeasures that can degrade and/or neutralize the effectiveness of current and/or projected threats and provide pre-emptive, area and point source devices that must be compatible with Night Vision Goggles (NVG). ORD: # 512-88-89 mandates Product Improvement Program (PIP) and Production Engineering Support (PES) to ensure expendables are cost effective, environmentally friendly and Hazards of Electromagnetic Radiation to Ordnance (HERO) safe. Beginning in FY 2018, the F-35 Countermeasure ALE-70 requirement increases across the FYDP to build the inventory necessary to meet Combat Operations where quantities have been defined by the Naval Munitions Requirements Process (NMRP) matching countermeasure inventory levels to successfully execute United States Defense Planning Guidance. Continued inventory build-up is required to support ship fill/sailing schedules for United States Marine Corps Amphibious Assault Groups and United States Navy Carrier Battle Group deployments that will increase in frequency with continued F-35 aircraft deliveries. OCO: FY 2019 Overseas Contingency Operations (OCO) funding supports for self-protection against accelerated proliferation of advanced Man-Portable Air Defense Systems (MANPADS) and is required to replenish countermeasure self-protection devices that have been expended in direct support of combat operations for Operation Inherent Resolve (OIR). This effort supports requirements initially set forth in Joint Emergent Operational Needs(JEON)SO-0010.										

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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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures							Aggregated Items Title: Air Expendable Countermeasures ⁽¹⁾						
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) ACTIVE JAMMERS																				
1.1) ALE-50 (AAED)	A		-	-	54.095	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) ALE-55 (FOTD) ^(†)	A		83,347.37	1,995	166.278	74,368.00	253	18.815	72,029.00	303	21.825	74,326.67	300	22.298	-	-	-	74,326.67	300	22.298
1.4) TECHNICAL SUPPORT (ACTIVE JAMMER)	A		-	-	1.840	-	-	0.853	-	-	0.864	-	-	0.757	-	-	-	-	-	0.757
Subtotal: 1) ACTIVE JAMMERS			-	-	222.213	-	-	19.668	-	-	22.689	-	-	23.055	-	-	-	-	-	23.055
2) IR DECOYS																				
2.1) MJU-32	A		111.44	468,366	52.197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) MJU-38	A		136.44	316,485	43.180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) MJU-49	A		563.39	370,391	208.673	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4) MJU-55	A		-	-	20.105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5) MJU-57 ^(†)	A		327.94	230,539	75.603	126.54	8,374	1.060	129.07	16,228	2.095	131.52	3,268	0.430	131.52	12,439	1.636	131.52	15,707	2.066
2.6) MJU-61 ^(†)	A		78.04	77,743	6.067	67.38	32,585	2.196	68.72	46,186	3.174	70.02	29,243	2.048	70.02	28,063	1.965	70.02	57,306	4.013
2.7) MJU-64 ^(†)	A		91.40	163,165	14.913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.8) MJU-66 ^(†)	A		130.07	77,122	10.031	106.78	21,000	2.242	-	-	-	-	-	0.000	110.97	7,830	0.869	110.97	7,830	0.869
2.9) MJU-67 ^(†)	A		394.69	26,327	10.391	423.00	28,883	12.218	430.61	29,381	12.652	438.79	15,967	7.006	438.79	21,741	9.540	438.79	37,708	16.546
2.10) SM875 ^(†)	A		33.59	1,911,397	64.196	24.48	126,633	3.100	23.95	263,214	6.304	-	-	0.000	23.71	335,090	7.945	23.71	335,090	7.945
Subtotal: 2) IR DECOYS			-	-	505.356	-	-	20.816	-	-	24.225	-	-	9.484	-	-	21.955	-	-	31.439
3) IMPULSE CARTRIDGES																				
3.1) CCU-136 ^(†)	A		8.56	5,984,574	51.243	4.04	393,638	1.590	4.12	392,718	1.618	4.19	283,054	1.186	4.19	1,784,725	7.478	4.19	2,067,779	8.664
3.2) CCU-145	A		6.58	1,367,105	8.992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) IMPULSE CARTRIDGES			-	-	60.235	-	-	1.590	-	-	1.618	-	-	1.186	-	-	7.478	-	-	8.664
4) CHAFF COUNTERMEASURES																				
4.1) RR-129 ^(†)	A		12.63	478,785	6.046	13.92	39,224	0.546	14.18	130,395	1.849	-	-	-	-	-	-	-	-	-
4.2) RR-144 ^(†)	A		30.61	675,588	20.680	-	-	-	-	-	-	16.99	31,863	0.541	16.99	283,990	4.825	16.99	315,853	5.366
4.3) RR-170	A		7.91	86,907	0.687	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) RR-188	A		-	-	0.121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) CHAFF COUNTERMEASURES			-	-	27.534	-	-	0.546	-	-	1.849	-	-	0.541	-	-	4.825	-	-	5.366
5) F-35 COUNTERMEASURES																				
5.1) ALE-70 ^{(2)(†)}	A		56,474.66	592	33.433	55,310.81	74	4.093	55,088.21	252	13.882	56,189.97	260	14.609	-	-	-	56,189.97	260	14.609
5.2) MJU-68 ^(†)	A		2,430.80	6,474	15.737	2,223.00	3,042	6.762	2,263.01	2,934	6.640	2,306.00	2,886	6.655	-	-	-	2,306.00	2,886	6.655
5.3) MJU-69	A		2,242.67	2,081	4.667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) CCU-168	A		327.87	2,257	0.740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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: 1508N / 01 / 1								P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures							Aggregated Items Title: Air Expendable Countermeasures ⁽¹⁾					
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: 5) F-35 COUNTERMEASURES			-	-	54.577	-	-	10.855	-	-	20.522	-	-	21.264	-	-	-	-	-	21.264
6) INTEGRATED LOGISTICS SUPPORT																				
6.1) ACTIVE JAMMERS			-	-	3.091	-	-	0.169	-	-	0.232	-	-	0.234	-	-	-	-	-	0.234
6.2) IR DECOYS			-	-	21.301	-	-	1.741	-	-	1.449	-	-	1.387	-	-	-	-	-	1.387
6.3) IMPULSE CARTRIDGES			-	-	1.560	-	-	0.050	-	-	0.051	-	-	0.052	-	-	-	-	-	0.052
6.4) CHAFF COUNTERMEASURES			-	-	1.152	-	-	0.054	-	-	0.055	-	-	0.056	-	-	-	-	-	0.056
6.5) F-35 COUNTERMEASURES			-	-	1.015	-	-	0.586	-	-	0.597	-	-	0.608	-	-	-	-	-	0.608
Subtotal: 6) INTEGRATED LOGISTICS SUPPORT			-	-	28.119	-	-	2.600	-	-	2.384	-	-	2.337	-	-	-	-	-	2.337
7) PRODUCTION ENGINEERING SUPPORT																				
7.1) ACTIVE JAMMERS			-	-	30.527	-	-	0.643	-	-	0.613	-	-	0.423	-	-	-	-	-	0.423
7.2) IR DECOYS ⁽³⁾			-	-	69.366	-	-	1.863	-	-	1.674	-	-	2.070	-	-	-	-	-	2.070
7.3) IMPULSE CARTRIDGES			-	-	5.369	-	-	0.075	-	-	0.170	-	-	0.173	-	-	-	-	-	0.173
7.4) CHAFF COUNTERMEASURES			-	-	2.839	-	-	0.067	-	-	0.068	-	-	0.069	-	-	-	-	-	0.069
7.5) F-35 COUNTERMEASURES			-	-	7.693	-	-	0.844	-	-	0.860	-	-	0.877	-	-	-	-	-	0.877
Subtotal: 7) PRODUCTION ENGINEERING SUPPORT			-	-	115.794	-	-	3.492	-	-	3.385	-	-	3.612	-	-	-	-	-	3.612
8) PRODUCT IMPROVEMENT PROGRAM																				
8.1) IR DECOYS			-	-	93.829	-	-	0.912	-	-	1.028	-	-	1.048	-	-	-	-	-	1.048
8.2) IMPULSE CARTRIDGES			-	-	12.291	-	-	0.060	-	-	0.242	-	-	0.246	-	-	-	-	-	0.246
8.3) CHAFF COUNTERMEASURES			-	-	0.733	-	-	0.015	-	-	0.015	-	-	0.015	-	-	-	-	-	0.015
8.4) F-35 COUNTERMEASURES			-	-	-	-	-	0.409	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 8) PRODUCT IMPROVEMENT PROGRAM			-	-	106.853	-	-	1.396	-	-	1.285	-	-	1.309	-	-	-	-	-	1.309
9) ACCEPTANCE TEST & EVALUATION ⁽⁴⁾																				
9.1) IR DECOYS			-	-	109.107	-	-	2.051	-	-	2.662	-	-	2.517	-	-	2.322	-	-	4.839
9.2) IMPULSE CARTRIDGES			-	-	15.871	-	-	0.175	-	-	0.165	-	-	0.168	-	-	-	-	-	0.168
9.3) CHAFF COUNTERMEASURES			-	-	5.175	-	-	0.020	-	-	0.042	-	-	0.042	-	-	-	-	-	0.042

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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: 1508N / 01 / 1						P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures						Aggregated Items Title: Air Expendable Countermeasures ⁽¹⁾								
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)
9.4) F-35 COUNTERMEASURES ⁽⁵⁾			-	-	1.054	-	-	0.460	-	-	0.782	-	-	0.867	-	-	-	-	-	0.867
Subtotal: 9) ACCEPTANCE TEST & EVALUATION			-	-	131.207	-	-	2.706	-	-	3.651	-	-	3.594	-	-	2.322	-	-	5.916
Total			-	-	1,251.888	-	-	63.669	-	-	81.608	-	-	66.382	-	-	36.580	-	-	102.962

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⁾ (a) Unit cost for hardware in FY 2019 reflect either escalated actual unit cost or actual pricing in contract options. (b) Deliveries funded by different fiscal year appropriations occasionally overlap (P21 Delivery Schedule) to ensure inventory goals are met without exceeding maximum production rates.
- ⁽²⁾ ALE-70 FY 2018 funding begins to build the inventory defined by the Naval Munitions Requirements Process (NMRP) to support ship fill/sailing schedules for United States Marine Corps Amphibious Assault Groups and United States Navy Carrier Battle Group deployments.
- ⁽³⁾ 7.2 (PES Infrared Decoys) FY 2018 to FY 2019 increase above inflation due to increased production engineering to support complex manufacture process and supply chain for MJU-67 JUONS flare.
- ⁽⁴⁾ 9 (ATE) Funding varies annually based on countermeasure production schedules and type of Lot Acceptance Testing required.
- ⁽⁵⁾ 9.4 (ATE F-35 Countermeasures) FY 2019 increase above inflation to support government lot acceptance testing of increased F-35 Countermeasures procurements.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures					Aggregated Items: Air Expendable Countermeasures ⁽¹⁾			
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) ACTIVE JAMMERS												
1.2) ALE-55 (FOTD) ^(†)		2017	BAE SYSTEMS / NASHUA, NH	SS / FP	NAVAIR	Dec 2016	Dec 2017	253	74,368.00	Y		Jun 2015
1.2) ALE-55 (FOTD) ^(†)		2018	BAE SYSTEMS / NASHUA, NH	SS / FP	NAVAIR	Nov 2017	Dec 2018	303	72,029.00	Y		Jun 2015
1.2) ALE-55 (FOTD) ^(†)		2019	BAE SYSTEMS / NASHUA, NH	SS / FP	NAVAIR	Nov 2018	Dec 2019	300	74,326.67	Y		Jun 2015
2) IR DECOYS												
2.5) MJU-57		2017	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Mar 2017	Sep 2017	8,374	126.54	Y		Feb 2017
2.5) MJU-57		2018	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Apr 2018	Oct 2018	7,962	129.07	Y		Feb 2017
2.5) MJU-57	✓	2018	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Apr 2018	Oct 2018	8,266	129.07	Y		Feb 2017
2.5) MJU-57		2019	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Jan 2019	Jul 2019	3,268	131.52	Y		Feb 2017
2.5) MJU-57	✓	2019	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Jan 2019	Jul 2019	12,439	131.52	Y		Feb 2017
2.6) MJU-61		2017	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Jan 2017	Aug 2017	32,585	67.38	Y		Jan 2013
2.6) MJU-61		2018	TBD ⁽⁶⁾ / TBD	C / IDIQ	NAVSUP WSS	Jun 2018	Feb 2019	29,059	68.72	Y		Jan 2018
2.6) MJU-61	✓	2018	TBD ⁽⁶⁾ / TBD	C / IDIQ	NAVSUP WSS	Jun 2018	Feb 2019	17,127	68.72	Y		Jan 2018
2.6) MJU-61		2019	TBD ⁽⁶⁾ / TBD	C / IDIQ	NAVSUP WSS	Mar 2019	Nov 2019	29,243	70.02	Y		Jan 2018
2.6) MJU-61	✓	2019	TBD ⁽⁶⁾ / TBD	C / IDIQ	NAVSUP WSS	Mar 2019	Nov 2019	28,063	70.02	Y		Jan 2018
2.7) MJU-64	✓	2013 ⁽⁷⁾	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Nov 2014	Nov 2017	21,788	90.78	Y		Apr 2014
2.7) MJU-64		2014 ⁽⁸⁾	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Nov 2014	Nov 2017	38,309	90.78	Y		Apr 2014
2.7) MJU-64	✓	2014 ⁽⁹⁾	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Nov 2014	Nov 2017	20,411	90.78	Y		Apr 2014
2.7) MJU-64		2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jul 2015	Sep 2018	397	90.78	Y		Apr 2014
2.7) MJU-64	✓	2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jul 2015	Sep 2018	66,930	90.78	Y		Apr 2014
2.7) MJU-64		2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jun 2016	Aug 2019	10,788	97.31	Y		Apr 2014
2.7) MJU-64	✓	2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jun 2016	Aug 2019	4,542	97.31	Y		Apr 2014

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures					Aggregated Items: Air Expendable Countermeasures ⁽¹⁾				
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	
2.8) MJU-66		2016	ALLOY SURFACES, INC. / ASTON, PA	SS / IDIQ	NAVSUP WSS	Apr 2016	Jul 2017	19,044	134.27	Y		Oct 2013	
2.8) MJU-66		2017 ⁽¹⁰⁾	ALLOY SURFACES, INC. / ASTON, PA	C / IDIQ	HILL AFB	Aug 2017	Nov 2018	21,000	106.78	Y		Dec 2016	
2.8) MJU-66	✓	2019	TBD ⁽¹¹⁾ / TBD	C / IDIQ	NAVSUP WSS	Mar 2019	Dec 2020	7,830	110.97	Y		Dec 2016	
2.9) MJU-67 ^(†)	✓	2015	Esterline Defense Technologies / Camden, AR	SS / BOA	CRANE, IN	Sep 2016	Oct 2017	11,367	415.93	Y		Jan 2016	
2.9) MJU-67 ^(†)		2017 ⁽¹²⁾	CRANE ARMY AMMUNITION ACTIVITY1 / Crane, IN	MIPR	CRANE, IN	Jan 2018	Apr 2019	12,193	423.00	Y		Jan 2016	
2.9) MJU-67 ^(†)	✓	2017	CRANE ARMY AMMUNITION ACTIVITY1 / Crane, IN	MIPR	CRANE, IN	Dec 2017	Apr 2019	16,690	423.00	Y		Jan 2016	
2.9) MJU-67 ^(†)		2018	CRANE ARMY AMMUNITION ACTIVITY1 / Crane, IN	MIPR	CRANE, IN	Jun 2018	Oct 2019	10,641	430.61	Y		May 2017	
2.9) MJU-67 ^(†)	✓	2018	CRANE ARMY AMMUNITION ACTIVITY1 / Crane, IN	MIPR	CRANE, IN	Jun 2018	Oct 2019	18,740	430.61	Y		May 2017	
2.9) MJU-67 ^(†)		2019	CRANE ARMY AMMUNITION ACTIVITY1 / Crane, IN	MIPR	CRANE, IN	Apr 2019	Aug 2020	15,967	438.79	Y		May 2017	
2.9) MJU-67 ^(†)	✓	2019	CRANE ARMY AMMUNITION ACTIVITY1 / Crane, IN	MIPR	CRANE, IN	Apr 2019	Aug 2020	21,741	438.79	Y		May 2017	
2.10) SM875 ^(†)	✓	2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	May 2015	Mar 2017	310,144	23.00	Y		Jul 2013	
2.10) SM875 ^(†)		2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Mar 2016	Mar 2018	165,915	23.00	Y		Jul 2013	
2.10) SM875 ^(†)	✓	2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Mar 2016	Mar 2018	348,726	23.00	Y		Jul 2013	
2.10) SM875 ^(†)		2017 ⁽¹³⁾	Kilgore Flares / Toone, Tennessee	C / IDIQ	NAVSUP WSS	Aug 2017	May 2019	126,633	24.48	Y		Feb 2017	
2.10) SM875 ^(†)		2018	Kilgore Flares / Toone, Tennessee	C / IDIQ	NAVSUP WSS	May 2018	Feb 2020	68,100	23.95	Y		Feb 2017	
2.10) SM875 ^(†)	✓	2018	Kilgore Flares / Toone, Tennessee	C / IDIQ	NAVSUP WSS	May 2018	Feb 2020	195,114	23.95	Y		Feb 2017	
2.10) SM875 ^(†)	✓	2019	Kilgore Flares / Toone, Tennessee	C / IDIQ	NAVSUP WSS	May 2019	Feb 2021	335,090	23.71	Y		Feb 2017	
3) IMPULSE CARTRIDGES													
3.1) CCU-136 ^(†)		2016	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2016	Mar 2017	401,696	3.90	Y		Dec 2011	
3.1) CCU-136 ^(†)	✓	2016	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2016	Mar 2017	217,018	3.90	Y		Dec 2011	
3.1) CCU-136 ^(†)		2017 ⁽¹⁴⁾	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	Jun 2017	Apr 2018	393,638	4.04	Y		Dec 2011	
3.1) CCU-136 ^(†)		2018	TBD ⁽¹⁵⁾ / TBD	C / IDIQ	NAVSUP WSS	Jan 2018	Nov 2018	392,718	4.12	Y		Jun 2017	

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures					Aggregated Items: Air Expendable Countermeasures ⁽¹⁾				
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
3.1) CCU-136 ^(†)		2019	TBD ⁽¹⁵⁾ / TBD	C / IDIQ	NAVSUP WSS	Jan 2019	Nov 2019	283,054	4.19	Y		Jun 2017
3.1) CCU-136 ^(†)	✓	2019	TBD ⁽¹⁵⁾ / TBD	C / IDIQ	NAVSUP WSS	Jan 2019	Nov 2019	1,784,725	4.19	Y		Jun 2017
4) CHAFF COUNTERMEASURES												
4.1) RR-129		2017	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jan 2017	Apr 2017	39,224	13.92	Y		Jun 2013
4.1) RR-129		2018	TBD ⁽¹⁶⁾ / TBD	C / IDIQ	NAVSUP WSS	Mar 2018	Jun 2018	130,395	14.18	Y		Feb 2017
4.2) RR-144 ^(†)		2019	TBD ⁽¹⁷⁾ / TBD	C / IDIQ	NAVSUP WSS	Jan 2019	Apr 2019	31,863	16.99	Y		Feb 2017
4.2) RR-144 ^(†)	✓	2019	TBD ⁽¹⁷⁾ / TBD	C / IDIQ	NAVSUP WSS	Jan 2019	Apr 2019	283,990	16.99	Y		Feb 2017
5) F-35 COUNTERMEASURES												
5.1) ALE-70 ^{(2)(†)}		2017 ⁽¹⁸⁾	BAE SYSTEMS / NASHUA, NH	SS / BOA	NAVSUP WSS	Nov 2017	Oct 2019	74	55,310.81	Y		Aug 2016
5.1) ALE-70 ^{(2)(†)}		2018	BAE SYSTEMS / NASHUA, NH	SS / BOA	NAVSUP WSS	Jun 2018	Jun 2020	252	55,088.21	Y		Dec 2017
5.1) ALE-70 ^{(2)(†)}		2019	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR	Jan 2019	Jan 2021	260	56,189.97	Y		Jan 2018
5.2) MJU-68 ^(†)		2014	BAE SYSTEMS / NASHUA, NH	SS / Letter	NAVSUP WSS	Apr 2016	Aug 2017	2,978	2,795.56	Y		Nov 2014
5.2) MJU-68 ^(†)		2015	BAE SYSTEMS / NASHUA, NH	SS / Letter	NAVSUP WSS	Apr 2016	Aug 2017	921	2,322.48	Y		Nov 2014
5.2) MJU-68 ^(†)		2017 ⁽¹⁹⁾	BAE SYSTEMS / NASHUA, NH	SS / BOA	NAVSUP WSS	Sep 2017	Dec 2018	3,042	2,223.00	Y		Jan 2017
5.2) MJU-68 ^(†)		2018	BAE SYSTEMS / NASHUA, NH	SS / BOA	NAVSUP WSS	Jun 2018	Sep 2019	2,934	2,263.01	Y		Dec 2017
5.2) MJU-68 ^(†)		2019	TBD ⁽²⁰⁾ / TBD	C / FFP	NAVAIR	Jun 2019	Sep 2020	2,886	2,306.00	Y		Aug 2018
^(†) indicates the presence of a P-21												
Footnotes: ⁽⁶⁾ MJU-61 FY 2018 and FY 2019 annual production rates TBD pending contract award. ⁽⁷⁾ MJU-64 FY 2013 date of first delivery reflects multiple first article and lot acceptance test failures. The first article test using the new equipment failed due to variability of Infrared (IR) Output. New first article test passed in August 2017. Deliveries began in November 2017. ⁽⁸⁾ MJU-64 FY 2014 date of first delivery reflects multiple first article and lot acceptance test failures. The first article test using the new equipment failed due to variability of Infrared (IR) Output. New first article test passed in August 2017. Deliveries began in November 2017. ⁽⁹⁾ MJU-64 FY 2014 date of first delivery reflects multiple first article and lot acceptance test failures. The first article test using the new equipment failed due to variability of Infrared (IR) Output. New first article test passed in August 2017. Deliveries began in November 2017. ⁽¹⁰⁾ MJU-66 FY 2017 awarded in August 2017 due to contracting strategy change with combined USAF contract. ⁽¹¹⁾ MJU-66 FY 2019 annual production rates TBD pending contract award.												

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures	Aggregated Items: Air Expendable Countermeasures ⁽¹⁾
⁽¹²⁾ MJU-67 FY 2017 contract award delayed due to extended time to complete auditing of foreign supplier. The foreign supplier was reluctant to provide US Prime Contractor restricted manufacturing process data and pricing details. Acquisition strategy changed from private industry to organic government manufacturing facility in order to streamline procurement of raw materials which will continue to be sourced through foreign supplier. Contract for raw materials to award in January 2018. ⁽¹³⁾ SM-875 FY 2017 awarded in August 2017 to accommodate solicitation extension request to update Automated Data List (ADL), references and drawing package and legal review. ⁽¹⁴⁾ CCU-136 FY 2017 awarded June 2017 due to delay in receipt of funds from USAF. ⁽¹⁵⁾ CCU-136 FY 2018 and FY 2019 annual production rates TBD, contract award scheduled January 2018. ⁽¹⁶⁾ RR-129 FY 2018 annual production rates TBD, contract award scheduled March 2018. ⁽¹⁷⁾ RR-144 FY 2019 annual production rates TBD, contract award scheduled January 2019. ⁽¹⁸⁾ ALE-70 FY 2017 awarded in November 2017 due to complexity of funds coordination and receipt from domestic and international F-35 customers. ⁽¹⁹⁾ MJU-68 FY 2017 awarded in September 2017 due to additional time required for DCAA audit of primary subcontractor. ⁽²⁰⁾ MJU-68 FY 2019 annual production rates TBD pending contract award.		

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures										Aggregated Items: Air Expendable Countermeasures ⁽¹⁾												
Items (Units in Millions, * = < 500)							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	
✓	14	2019	NAVY	1.785	.000	1.785																										1.785
4) CHAFF COUNTERMEASURES																																
4.2) RR-144																																
Prior Years Deliveries: 675588																																
	15	2019	NAVY	.032	.000	.032																									.032	
✓	15	2019	NAVY	.284	.000	.284																									.284	
5) F-35 COUNTERMEASURES																																
5.1) ALE-70 ⁽²⁾																																
Prior Years Deliveries: 592																																
	16	2017	NAVY	*	.000	*																									*	
	16	2017	AF ^(†)	*	.000	*																									*	
	16	2017	Total	*	.000	*																									*	
	16	2018	NAVY	*	.000	*																									*	
	16	2018	AF ^(†)	*	.000	*																									*	
	16	2018	Total	*	.000	*																									*	
	16	2019	NAVY	*	.000	*																									*	
	16	2019	AF ^(†)	*	.000	*																									*	
	16	2019	Total	*	.000	*																									*	
5.2) MJU-68																																
Prior Years Deliveries: 2575																																
	17	2014	NAVY	.003	.000	.003																										
	17	2014	AF ^(†)	.006	.000	.006																										
	17	2014	Total	.009	.000	.009																										
	17	2015	NAVY	*	.000	*																										*
	17	2017	NAVY	.003	.000	.003																										.003
	17	2017	AF ^(†)	.015	.000	.015																										.015
	17	2017	Total	.018	.000	.018																										.018
	17	2018	NAVY	.003	.000	.003																										.003
	17	2018	AF ^(†)	.004	.000	.004																										.004
	17	2018	Total	.007	.000	.007																										.007
	18	2019	NAVY	.003	.000	.003																										.003
							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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures												Aggregated Items: Air Expendable Countermeasures ⁽¹⁾												
Items (Units in Millions, * = < 500)							Fiscal Year 2015												Fiscal Year 2016												B A L A N C E
O C O	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 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	
	18	2019	AF (‡)	.008	.000	.008																									.008
	18	2019	Total	.011	.000	.011																									.011
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures										Aggregated Items: Air Expendable Countermeasures ⁽¹⁾																														
Items (Units in Millions, * = < 500)							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																																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																				
✓	14	2019	NAVY	1.785	.000	1.785																													1.785															
4) CHAFF COUNTERMEASURES																																																		
4.2) RR-144																																																		
Prior Years Deliveries: 675588																																																		
	15	2019	NAVY	.032	.000	.032																													.032															
✓	15	2019	NAVY	.284	.000	.284																													.284															
5) F-35 COUNTERMEASURES																																																		
5.1) ALE-70 ⁽²⁾																																																		
Prior Years Deliveries: 592																																																		
	16	2017	NAVY	*	.000	*															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	*															
	16	2017	AF ^(†)	*	.000	*															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	*															
	16	2017	Total	*	.000	*															-	-	-	-	-	-	-	-	-	-	-	-	-	-	*															
	16	2018	NAVY	*	.000	*																					A -	-	-	-	-	*																		
	16	2018	AF ^(†)	*	.000	*																					A -	-	-	-	-	*																		
	16	2018	Total	*	.000	*																					-	-	-	-	-	*																		
	16	2019	NAVY	*	.000	*																													*															
	16	2019	AF ^(†)	*	.000	*																													*															
	16	2019	Total	*	.000	*																													*															
5.2) MJU-68																																																		
Prior Years Deliveries: 2575																																																		
	17	2014	NAVY	.003	.000	.003	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*			.000																			
	17	2014	AF ^(†)	.006	.000	.006	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*			.000																			
	17	2014	Total	.009	.000	.009	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	.000																			
	17	2015	NAVY	*	.000	*	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*			.000																				
	17	2017	NAVY	.003	.000	.003											A -	-	-	-	-	-	-	-	-	-	-	-	-	-		.003																		
	17	2017	AF ^(†)	.015	.000	.015											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-		.015																	
	17	2017	Total	.018	.000	.018											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		.018																	
	17	2018	NAVY	.003	.000	.003																					A -	-	-	-	-		.003																	
	17	2018	AF ^(†)	.004	.000	.004																					A -	-	-	-	-		.004																	
	17	2018	Total	.007	.000	.007																					-	-	-	-	-		.007																	
	18	2019	NAVY	.003	.000	.003																																												.003
							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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures												Aggregated Items: Air Expendable Countermeasures ⁽¹⁾												
Items (Units in Millions, * = < 500)							Fiscal Year 2017												Fiscal Year 2018												B A L A N C E
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	
	18	2019	AF (‡)	.008	.000	.008																									.008
	18	2019	Total	.011	.000	.011																									.011
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures										Aggregated Items: Air Expendable Countermeasures ⁽¹⁾													
Items (Units in Millions, * = < 500)							Fiscal Year 2019										Fiscal Year 2020										B A L A N C E						
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) ACTIVE JAMMERS																																	
1.2) ALE-55 (FOTD)																																	
Prior Years Deliveries: 1995																																	
	8	2017	NAVY		*	*	*	*	*																							.000	
	8	2018	NAVY		*	.000	*	-	-	*	*	*	*	*	*	*	*	*	*	*													.000
	8	2019	NAVY		*	.000	*		A -	-	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	
2) IR DECOYS																																	
2.9) MJU-67																																	
Prior Years Deliveries: 14960																																	
✓	9	2015	NAVY		.011	.011	.000																									.000	
	10	2017	NAVY		.012	.000	.012	-	-	-	-	-	-	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001					.000	
✓	10	2017	NAVY		.017	.000	.017	-	-	-	-	-	-	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001						.000	
	10	2018	NAVY		.011	.000	.011	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.000
✓	10	2018	NAVY		.019	.000	.019	-	-	-	-	-	-	-	-	-	-	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.000
	10	2019	NAVY		.016	.000	.016							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.001	.001	.013	
✓	10	2019	NAVY		.022	.000	.022							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.002	.002	.018	
2.10) SM875																																	
Prior Years Deliveries: 1086612																																	
✓	11	2015	NAVY		.310	.310	.000																									.000	
	11	2016	NAVY		.166	.097	.069	.014	.014	.014	.014	.014																				.000	
✓	11	2016	NAVY		.349	.203	.145	.029	.029	.029	.029	.029																				.000	
	12	2017	NAVY		.127	.000	.127	-	-	-	-	-	-	-	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011						.000	
	12	2018	NAVY		.068	.000	.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.023	
✓	12	2018	NAVY		.195	.000	.195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.065	
✓	12	2019	NAVY		.335	.000	.335							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.335	
3) IMPULSE CARTRIDGES																																	
3.1) CCU-136																																	
Prior Years Deliveries: 5365860																																	
	13	2016	NAVY		.402	.402	.000																									.000	
✓	13	2016	NAVY		.217	.217	.000																									.000	
	13	2017	NAVY		.394	.197	.197	.033	.033	.033	.033	.033	.033																			.000	
	14	2018	NAVY		.393	.000	.393	-	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033														.000	
	14	2019	NAVY		.283	.000	.283				A -	-	-	-	-	-	-	-	-	.024	.024	.024	.024	.024	.024	.024	.024	.024	.024	.024	.024	.024	
								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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures										Aggregated Items: Air Expendable Countermeasures ⁽¹⁾													
Items <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2019										Fiscal Year 2020													B A L A N C E			
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		
✓	14	2019	NAVY	1.785	.000	1.785				A -	-	-	-	-	-	-	-	-	-	.149	.149	.149	.149	.149	.149	.149	.149	.149	.149	.149	.149		
4) CHAFF COUNTERMEASURES																																	
4.2) RR-144																																	
Prior Years Deliveries: 675588																																	
	15	2019	NAVY	.032	.000	.032				A -	-	-	-	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003							.000
✓	15	2019	NAVY	.284	.000	.284				A -	-	-	-	.024	.024	.024	.024	.024	.024	.024	.024	.024	.024	.024	.024	.024							.000
5) F-35 COUNTERMEASURES																																	
5.1) ALE-70 ⁽²⁾																																	
Prior Years Deliveries: 592																																	
	16	2017	NAVY	*	.000	*	-	-	-	-	-	-	-	-	-	-	-	-	*	*	-	-	-	-	-	-					.000		
	16	2017	AF ^(†)	*	.000	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*					.000		
	16	2017	Total	*	.000	*	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	-	-	-	-	.000		
	16	2018	NAVY	*	.000	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*		
	16	2018	AF ^(†)	*	.000	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*		
	16	2018	Total	*	.000	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*		
	16	2019	NAVY	*	.000	*				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*		
	16	2019	AF ^(†)	*	.000	*				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*		
	16	2019	Total	*	.000	*				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*		
5.2) MJU-68																																	
Prior Years Deliveries: 2575																																	
	17	2014	NAVY	.003	.003	.000																										.000	
	17	2014	AF ^(†)	.006	.006	.000																										.000	
	17	2014	Total	.009	.009	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	17	2015	NAVY	*	*	.000																										.000	
	17	2017	NAVY	.003	.000	.003	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*												.000
	17	2017	AF ^(†)	.015	.000	.015	-	-	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001													.000	
	17	2017	Total	.018	.000	.018	-	-	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	-	-	-	-	-	-	-	-	-	-	-	.000		
	17	2018	NAVY	.003	.000	.003	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*		.000		
	17	2018	AF ^(†)	.004	.000	.004	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*		.000		
	17	2018	Total	.007	.000	.007	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	-	.000			
	18	2019	NAVY	.003	.000	.003											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	.003
							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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures											Aggregated Items: Air Expendable Countermeasures ⁽¹⁾													
Items <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2019											Fiscal Year 2020											B A L A N C E		
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
	18	2019	AF (±)	.008	.000	.008								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	*
	18	2019	Total	.011	.000	.011								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	.010
							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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures													Aggregated Items: Air Expendable Countermeasures ⁽¹⁾																	
Items (Units in Millions, * = < 500)							Fiscal Year 2021													Fiscal Year 2022																	BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022																	
							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) ACTIVE JAMMERS																																					
1.2) ALE-55 (FOTD)																																					
Prior Years Deliveries: 1995																																					
	8	2017	NAVY	*	*	.000																													.000		
	8	2018	NAVY	*	*	.000																													.000		
	8	2019	NAVY	*	*	*	*	*																												.000	
2) IR DECOYS																																					
2.9) MJU-67																																					
Prior Years Deliveries: 14960																																					
✓	9	2015	NAVY	.011	.011	.000																													.000		
	10	2017	NAVY	.012	.012	.000																													.000		
✓	10	2017	NAVY	.017	.017	.000																													.000		
	10	2018	NAVY	.011	.011	.000																													.000		
✓	10	2018	NAVY	.019	.019	.000																													.000		
	10	2019	NAVY	.016	.003	.013	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001																				.000	
✓	10	2019	NAVY	.022	.004	.018	.002	.002	.002	.002	.002	.002	.002	.002	.002																				.000		
2.10) SM875																																					
Prior Years Deliveries: 1086612																																					
✓	11	2015	NAVY	.310	.310	.000																													.000		
	11	2016	NAVY	.166	.166	.000																													.000		
✓	11	2016	NAVY	.349	.349	.000																													.000		
	12	2017	NAVY	.127	.127	.000																													.000		
	12	2018	NAVY	.068	.045	.023	.006	.006	.006	.006																									.000		
✓	12	2018	NAVY	.195	.130	.065	.016	.016	.016	.016																									.000		
✓	12	2019	NAVY	.335	.000	.335	-	-	-	-	.028	.028	.028	.028	.028	.028	.028	.028	.028	.028	.028														.000		
3) IMPULSE CARTRIDGES																																					
3.1) CCU-136																																					
Prior Years Deliveries: 5365860																																					
	13	2016	NAVY	.402	.402	.000																													.000		
✓	13	2016	NAVY	.217	.217	.000																													.000		
	13	2017	NAVY	.394	.394	.000																													.000		
	14	2018	NAVY	.393	.393	.000																													.000		
	14	2019	NAVY	.283	.259	.024	.024	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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures													Aggregated Items: Air Expendable Countermeasures ⁽¹⁾													
Items (Units in Millions, * = < 500)							Fiscal Year 2021										Fiscal Year 2022													B A L A N C E			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL DUE AS OF 1 OCT	Calendar Year 2021																Calendar Year 2022										
							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		
✓	14	2019	NAVY	1.785	1.636	.149	.149																								.000		
4) CHAFF COUNTERMEASURES																																	
4.2) RR-144																																	
Prior Years Deliveries: 675588																																	
	15	2019	NAVY	.032	.032	.000																									.000		
✓	15	2019	NAVY	.284	.284	.000																									.000		
5) F-35 COUNTERMEASURES																																	
5.1) ALE-70 ⁽²⁾																																	
Prior Years Deliveries: 592																																	
	16	2017	NAVY	*	*	.000																									.000		
	16	2017	AF ^(†)	*	*	.000																									.000		
	16	2017	Total	*	*	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	16	2018	NAVY	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.000	
	16	2018	AF ^(†)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.000	
	16	2018	Total	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.000	
	16	2019	NAVY	*	.000	*	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.000	
	16	2019	AF ^(†)	*	.000	*	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.000	
	16	2019	Total	*	.000	*	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.000	
5.2) MJU-68																																	
Prior Years Deliveries: 2575																																	
	17	2014	NAVY	.003	.003	.000																									.000		
	17	2014	AF ^(†)	.006	.006	.000																									.000		
	17	2014	Total	.009	.009	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	17	2015	NAVY	*	*	.000																									.000		
	17	2017	NAVY	.003	.003	.000																									.000		
	17	2017	AF ^(†)	.015	.015	.000																									.000		
	17	2017	Total	.018	.018	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	17	2018	NAVY	.003	.003	.000																									.000		
	17	2018	AF ^(†)	.004	.004	.000																									.000		
	17	2018	Total	.007	.007	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	18	2019	NAVY	.003	*	.003	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.000	
							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: 1508N / 01 / 1								P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures												Aggregated Items: Air Expendable Countermeasures ⁽¹⁾											
Items <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2021												Fiscal Year 2022												B A L A N C E
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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	
	18	2019	AF (‡)	.008	*	.007	*	*	*	*	*	*	*	*	*	*															.000
	18	2019	Total	.011	*	.010	*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000

	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: 1508N / 01 / 1				P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures				Aggregated Items: Air Expendable Countermeasures ⁽¹⁾				
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	BAE SYSTEMS - NASHUA, NH	192	360	600	0	3	13	16	0	2	13	15
2	Esterline Defense Technologies - Camden, AR	5,000	20,000	35,000	0	9	16	25	0	7	18	23
3	CRANE ARMY AMMUNITION ACTIVITY1 - Crane, IN	5,000	30,000	55,000	0	15	16	31	0	7	16	23
4	ARMTEC DEFENSE, INC. - COACHELLA, CA	66,000	230,400	537,600	0	0	0	0	0	6	22	28
5	Kilgore Flares - Toone, Tennessee	66,000	230,400	537,600	0	11	21	32	0	8	21	29
6	CAPCO, INC - GRAND JUNCTION, CO	220,000	1,296,000	1,555,200	0	0	0	0	0	8	10	18
7	TBD ⁽¹⁵⁾ - TBD				0	4	10	14	0	4	10	14
8	TBD ⁽¹⁷⁾ - TBD				0	4	3	7	0	0	0	0
9	BAE SYSTEMS - NASHUA, NH	120	1,440	2,880	0	4	24	28	0	9	24	33
10	BAE SYSTEMS - NASHUA, NH	1,000	12,000	30,000	0	12	15	27	0	9	15	24
11	TBD ⁽²⁰⁾ - TBD				0	9	15	24	0	0	0	0

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"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:

⁽¹⁵⁾ CCU-136 FY 2018 and FY 2019 annual production rates TBD, contract award scheduled January 2018.

⁽¹⁷⁾ RR-144 FY 2019 annual production rates TBD, contract award scheduled January 2019.

⁽²⁰⁾ MJU-68 FY 2019 annual production rates TBD pending contract award.

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

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)

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>)	64.517	2.735	3.435	2.907	0.747	3.654	2.974	3.042	3.100	3.170	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	64.517	2.735	3.435	2.907	0.747	3.654	2.974	3.042	3.100	3.170	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	64.517	2.735	3.435	2.907	0.747	3.654	2.974	3.042	3.100	3.170	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.003 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.

Jet Assisted Take Offs (JATOs) and Rocket Assisted Take Offs (RATOs) are solid propellant rocket motors used in matched pairs to launch BQM-74 and BQM-177 targets respectively in support of Combat System Ship Qualification Trials (CSSQT) for Navy surface ships and other fleet events.

In FY 2019, the program will continue procurement of the Mk-85 RATO to support the BQM-177 Subsonic Aerial Target (SSAT) operations. The program has begun a transition from the Mk-117 JATO to the Mk-85 RATO to support the change in requirement.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)				
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	Jet Assisted Take Off (JATOs)/Rocket Assisted Take Off (RATOs)	P-5a, P-21			- / 64.517	- / 2.735	- / 3.435	- / 2.907	- / 0.747	- / 3.654
P-40	Total Gross/Weapon System Cost				- / 64.517	- / 2.735	- / 3.435	- / 2.907	- / 0.747	- / 3.654
*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 baseline funding is required to support the procurement for the Mk-85 Rocket Assisted Take Offs (RATOs). The RATOs are required in accordance with the fleet needs/fielding of the BQM-177 and to maintain inventory levels for fleet training and qualification usage with the new Subsonic Aerial Target. Procurements through the FYDP are for operationally configured units to satisfy the requirement of applicable specifications of RATO. The Mk-85 RATO also requires the procurement of an appropriate container that is shipboard certified. Additional Baseline funding is required for production engineering support, integrated logistics support, and reliability life (i.e. safety and product improvement program, as well as quality assurance and acceptance testing). During the Mk-117/Mk-85 transition, production support costs will increase to support both variants. OCO: FY 2019 Overseas Contingency Operations (OCO) is required to procure MK 117 JATOs used in pre-deployment combat qualification exercises in support of Operation Inherent Resolve (OIR).										

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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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)						Aggregated Items Title: Jet Assisted Take Off (JATOs)/Rocket Assisted Take Off (RATOs)							
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) JATO / RATO																				
1.1) Mk 85 RATO ^{(1)(†)}	A		-	-	-	-	-	-	12,212.75	178	2.174	12,457.00	200	2.491	-	-	-	12,457.00	200	2.491
1.2) Mk 117 MOD O ROCKET MOTORS ^{(2)(†)}	A		2,997.35	15,852	47.514	5,983.21	397	2.375	6,102.27	88	0.537	-	-	0.000	6,225.00	120	0.747	6,225.00	120	0.747
Subtotal: 1) JATO / RATO			-	-	47.514	-	-	2.375	-	-	2.711	-	-	2.491	-	-	0.747	-	-	3.238
2) Support																				
2.1) Production Support RATO ⁽³⁾	A		-	-	-	-	-	-	-	-	0.424	-	-	0.231	-	-	-	-	-	0.231
2.2) Production Support JATO ⁽⁴⁾	A		-	-	-	-	-	-	-	-	0.221	-	-	0.110	-	-	-	-	-	0.110
2.3) OTHER COSTS	A		-	-	17.003	-	-	0.360	-	-	0.079	-	-	0.075	-	-	-	-	-	0.075
Subtotal: 2) Support			-	-	17.003	-	-	0.360	-	-	0.724	-	-	0.416	-	-	-	-	-	0.416
Total			-	-	64.517	-	-	2.735	-	-	3.435	-	-	2.907	-	-	0.747	-	-	3.654
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⁾ Mk 85 RATO: FY18 and FY19 Mk-85 quantity increased to support fleet operational training and joint exercise requirements. FY18 and FY19 Mk-85 unit cost increased as the final configuration and production plan are now better defined with completion of Critical Design Review in FY17.																				
⁽²⁾ Mk 117 MOD O ROCKET MOTORS: FY18 and FY19 Mk-117 quantity reduced based on sufficient inventory to support BQM-74 operational requirements. Funding realigned to Mk-85 quantities to support operational requirements.																				
⁽³⁾ Production Support RATO: FY18 increases to support initial production start-up costs. FY20 RATO Production Support increases above inflation to satisfy manufacturing infrastructure requirements that have commonality with JATO, as JATO program sundowns.																				
⁽⁴⁾ Production Support JATO: FY18 and FY19 JATO Production Support is required to support OCO production efforts.																				

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)					Aggregated Items: Jet Assisted Take Off (JATOs)/Rocket Assisted Take Off (RATOs)				
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
1) JATO / RATO												
1.1) Mk 85 RATO ^{(1)(†)}		2018	NSWC INDIAN HEAD DIV / Indian Head, MD	PO	NSWC	Nov 2017	May 2019	178	12,212.75	Y		
1.1) Mk 85 RATO ^{(1)(†)}		2019	NSWC INDIAN HEAD DIV / Indian Head, MD	PO	NSWC	Dec 2018	May 2020	200	12,457.00	Y		
1.2) Mk 117 MOD O ROCKET MOTORS ^{(2)(†)}		2014 ⁽⁵⁾	NSWC INDIAN HEAD DIV ⁽⁶⁾ / Indian Head, MD	PO	NSWC	Dec 2013	May 2017	422	5,661.21	Y		
1.2) Mk 117 MOD O ROCKET MOTORS ^{(2)(†)}		2016	NSWC INDIAN HEAD DIV ⁽⁶⁾ / Indian Head, MD	PO	NSWC	Mar 2016	Jul 2017	417	5,865.71	Y		
1.2) Mk 117 MOD O ROCKET MOTORS ^{(2)(†)}		2017	NSWC INDIAN HEAD DIV ⁽⁶⁾ / Indian Head, MD	PO	NSWC	Nov 2016	Apr 2018	397	5,983.21	Y		
1.2) Mk 117 MOD O ROCKET MOTORS ^{(2)(†)}	✓	2018 ⁽⁷⁾	NSWC INDIAN HEAD DIV ⁽⁶⁾ / Indian Head, MD	PO	NSWC	Jan 2018	Apr 2019	88	6,102.27	Y		
1.2) Mk 117 MOD O ROCKET MOTORS ^{(2)(†)}	✓	2019	NSWC INDIAN HEAD DIV ⁽⁶⁾ / Indian Head, MD	PO	NSWC	Dec 2018	May 2020	120	6,225.00	Y		
^(†) indicates the presence of a P-21												
Footnotes:												
⁽⁵⁾ Mk 117 MOD O ROCKET MOTORS: Nominal manufacturing lead-time is 18 months, but prior year production units were delayed due to propellant grain manufacturing issues. Deliveries resumed in FY2016. FY2014 deliveries will complete in FY2018.												
⁽⁶⁾ NSWC Indian Head Div Production rates represent combined Mk-85 and Mk-117 rates.												
⁽⁷⁾ Mk 117 MOD O ROCKET MOTORS: FY2018 Contract award dated changed from December 2017 to January 2018.												

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)										Aggregated Items: Jet Assisted Take Off (JATOs)/Rocket Assisted Take Off (RATOs)														
Items <i>(Units in Each)</i>							Fiscal Year 2014										Fiscal Year 2015													BALANCE				
OCO	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015														
							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) JATO / RATO																																		
1.1) Mk 85 RATO ⁽¹⁾																																		
	19	2018	NAVY		178	0	178																											178
	19	2019	NAVY		200	0	200																											200
1.2) Mk 117 MOD O ROCKET MOTORS ⁽²⁾																																		
Prior Years Deliveries: 15013																																		
	20	2014	NAVY		422	0	422			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	422				
	20	2016	NAVY		417	0	417																											417
	20	2017	NAVY		397	0	397																											397
✓	20	2018	NAVY		88	0	88																											88
✓	20	2019	NAVY		120	0	120																											120
								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: 1508N / 01 / 1												P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)												Aggregated Items: Jet Assisted Take Off (JATOs)/Rocket Assisted Take Off (RATOs)													
Items <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) JATO / RATO																																					
1.1) Mk 85 RATO ⁽¹⁾																																					
	19	2018	NAVY		178	0	178																										178				
	19	2019	NAVY		200	0	200																										200				
1.2) Mk 117 MOD O ROCKET MOTORS ⁽²⁾																																					
Prior Years Deliveries: 15013																																					
	20	2014	NAVY		422	0	422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	35	35	35	35	247					
	20	2016	NAVY		417	0	417						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	34	34	315				
	20	2017	NAVY		397	0	397															A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	397
✓	20	2018	NAVY		88	0	88																										88				
✓	20	2019	NAVY		120	0	120																										120				
								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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)														Aggregated Items: Jet Assisted Take Off (JATOs)/Rocket Assisted Take Off (RATOs)															
Items <i>(Units in Each)</i>							Fiscal Year 2018														Fiscal Year 2019														B A L A N C E				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018														Calendar Year 2019																		
							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) JATO / RATO																																							
1.1) Mk 85 RATO ⁽¹⁾																																							
	19	2018	NAVY		178			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	15	103					
	19	2019	NAVY		200															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	200					
1.2) Mk 117 MOD O ROCKET MOTORS ⁽²⁾																																							
Prior Years Deliveries: 15013																																							
	20	2014	NAVY		422		175	247	35	35	35	35	35	36	36																					0			
	20	2016	NAVY		417		102	315	35	35	35	35	35	35	35	35	35	35																0					
	20	2017	NAVY		397		0	397	-	-	-	-	-	-	33	33	33	33	33	33	33	33	33	33	34												0		
✓	20	2018	NAVY		88		0	88	A -				-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7		46						
✓	20	2019	NAVY		120		0	120															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120
									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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)													Aggregated Items: Jet Assisted Take Off (JATOs)/Rocket Assisted Take Off (RATOs)											
Items <i>(Units in Each)</i>							Fiscal Year 2020													Fiscal Year 2021													BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021														
							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) JATO / RATO																																		
1.1) Mk 85 RATO ⁽¹⁾																																		
	19	2018	NAVY		178	75	103	15	15	15	15	15	15	13																				0
	19	2019	NAVY		200	0	200	-	-	-	-	-	-	-	17	17	17	17	17	17	17	16	16	16	16								0	
1.2) Mk 117 MOD O ROCKET MOTORS ⁽²⁾																																		
Prior Years Deliveries: 15013																																		
	20	2014	NAVY		422	422	0																											0
	20	2016	NAVY		417	417	0																											0
	20	2017	NAVY		397	397	0																											0
✓	20	2018	NAVY		88	42	46	7	7	8	8	8	8																					0
✓	20	2019	NAVY		120	0	120	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10								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: 1508N / 01 / 1					P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)					Aggregated Items: Jet Assisted Take Off (JATOs)/Rocket Assisted Take Off (RATOs)			
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	NSWC INDIAN HEAD DIV - Indian Head, MD	200	500	6,000	0	3	18	21	0	3	17	20	
2	NSWC INDIAN HEAD DIV ⁽⁶⁾ - Indian Head, MD	200	500	6,000	0	0	0	0	0	3	17	20	
"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: ⁽⁶⁾ NSWC Indian Head Div Production rates represent combined Mk-85 and Mk-117 rates.													

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

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition

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>)	254.779	17.620	22.112	72.657	0.000	72.657	27.594	28.358	28.947	29.505	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	254.779	17.620	22.112	72.657	0.000	72.657	27.594	28.358	28.947	29.505	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	254.779	17.620	22.112	72.657	0.000	72.657	27.594	28.358	28.947	29.505	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.117 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.

Program procures 5"/54 ammunition fired from Cruiser and Destroyer combatant ships against air, surface, and shore targets. Ammunition items procured includes propelling charges, high-explosive projectiles and training rounds.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition				
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 / 5 Inch/54 Gun Ammunition	P-5a, P-21			- / 254.779	- / 17.620	- / 22.112	- / 72.657	- / 0.000	- / 72.657
P-40	Total Gross/Weapon System Cost				- / 254.779	- / 17.620	- / 22.112	- / 72.657	- / 0.000	- / 72.657
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2019 increase in baseline funding procures new MK 187 Projectiles in sufficient quantity to replace projectiles which have reached the end of service life. The MK 187 provides all fuze modes for Naval Surface Fire Support, as well as, superior Fast Attack Craft/Fast In-Shore Attack Craft (FAC/FIAC) capability, Anti Air Warfare (AAW) and Anti Ship Cruise Missile (ASCM) defense. Propelling Charges and training projectiles are procured to sustain training and operational requirements. Baseline program also funds Production Engineering and Gauge requirements for all 5"/54 ammunition. FY 2019 Product Improvement Program will address cartridge case obsolescence for the 5"/54 propelling charge.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition						Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition								
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>				254.779			17.620			22.112			72.657			0.000			72.657		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				254.779			17.620			22.112			72.657			0.000			72.657		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				254.779			17.620			22.112			72.657			0.000			72.657		
(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 - AC100 5"/54 AMMUNITION HARDWARE Cost																					
Recurring Cost																					
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296)		1,087.58	491	0.534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		909.40	74,327	67.593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.1.3) 5"/54 CHG, PROP, FULL (DA65) ^(†)		-	-	-	-	-	-	998.62	17,499	17.475	1,018.57	17,394	17.717	-	-	-	1,018.57	17,394	17.717		
1.1.4) 5"54 PROJ, BLP/T (D349) ^(†)		431.67	41,923	18.097	465.61	10,014	4.663	-	-	-	489.19	4,944	2.419	-	-	-	489.19	4,944	2.419		
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48) ^(†)		1,941.27	28,944	56.188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.1.6) MK187 MOD 0 PROJECTILE (DA53) ^(†)		-	-	-	-	-	-	-	-	-	3,486.22	13,784	48.054	-	-	-	3,486.22	13,784	48.054		
1.1.7) TRANSPORTATION ACCT CODE		-	-	2.348	-	-	0.289	-	-	0.290	-	-	0.279	-	-	-	-	-	0.279		
1.1.8) PE/QA SMCA		-	-	1.274	-	-	0.050	-	-	0.025	-	-	0.026	-	-	-	-	-	0.026		
1.1.9) PRIOR YEARS CUMULATIVE FUNDING		-	-	25.388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost		-	-	171.422	-	-	5.002	-	-	17.790	-	-	68.495	-	-	-	-	-	68.495		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition						Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition						
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)
Subtotal: Hardware - AC100 5"/54 AMMUNITION HARDWARE Cost	-	-	171.422	-	-	5.002	-	-	17.790	-	-	68.495	-	-	-	-	-	68.495
Hardware - AC850 PRODUCT IMPROVEMENT Cost																		
Recurring Cost																		
2.1.1) PRODUCT IMPROVEMENT ⁽¹⁾	-	-	17.118	-	-	5.170	-	-	0.830	-	-	0.615	-	-	-	-	-	0.615
Subtotal: Recurring Cost	-	-	17.118	-	-	5.170	-	-	0.830	-	-	0.615	-	-	-	-	-	0.615
Subtotal: Hardware - AC850 PRODUCT IMPROVEMENT Cost	-	-	17.118	-	-	5.170	-	-	0.830	-	-	0.615	-	-	-	-	-	0.615
Hardware - AC893 RENOVATION COMPONENTS Cost																		
Recurring Cost																		
3.1.1) RENOVATION COMPONENTS	-	-	33.516	-	-	1.775	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	33.516	-	-	1.775	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - AC893 RENOVATION COMPONENTS Cost	-	-	33.516	-	-	1.775	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - AC894 GAUGE REQUIREMENTS Cost																		
Recurring Cost																		
4.1.1) GAUGE REQUIREMENTS	-	-	3.028	-	-	0.286	-	-	0.350	-	-	0.360	-	-	-	-	-	0.360
Subtotal: Recurring Cost	-	-	3.028	-	-	0.286	-	-	0.350	-	-	0.360	-	-	-	-	-	0.360
Subtotal: Hardware - AC894 GAUGE REQUIREMENTS Cost	-	-	3.028	-	-	0.286	-	-	0.350	-	-	0.360	-	-	-	-	-	0.360
Hardware - ACG86 Overseas Contingency Operations (OCO) Cost																		
Non Recurring Cost																		
5.1.1) Overseas Contingency Operations (OCO)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - ACG86 Overseas Contingency Operations (OCO) Cost	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (AC850) NON-STANDARD 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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition						Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition					
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)
6.1.1) NON-STANDARD	-	-	-	-	-	2.286	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	2.286	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (AC850) NON-STANDARD Cost	-	-	-	-	-	2.286	-	-	-	-	-	-	-	-	-	-	-	-
Support - AC830 PRODUCTION ENGINEERING Cost																		
7.1) PRODUCTION ENGINEERING	-	-	29.694	-	-	3.101	-	-	3.142	-	-	3.187	-	-	-	-	-	3.187
Subtotal: Support - AC830 PRODUCTION ENGINEERING Cost	-	-	29.694	-	-	3.101	-	-	3.142	-	-	3.187	-	-	-	-	-	3.187
Gross/Weapon System Cost	-	-	254.779	-	-	17.620	-	-	22.112	-	-	72.657	-	-	0.000	-	-	72.657
Remarks:																		
[Hardware] AC100: 5"54 Ammunition Hardware includes costs to procure components, load and assembly of complete rounds, and acceptance tests. Costs associated with Transportation Account Code (TAC) are for first destination of delivery of production items. Unit costs and quantities are adjusted during year of execution.																		
[Hardware] AC850: Product Improvement engineering services and related efforts by government activities, the producing contractor or manufacturing installation, are executed to extend the useful military life of an item or to improve the item within the current performance envelope.																		
[Hardware] AC893: Renovation components upgrades unserviceable rounds into ready-for-issue condition.																		
[Hardware] AC894: Gauge Requirements are for the procurement of gauges, auxiliary and test equipment and support costs necessary for ammunition metrology to check critical dimensions/parameters of ammunition items and their parts.																		
[Hardware] AC850: Non Standard funding procured reusable packaging required for transportation and storage of projectiles and propelling charges.																		
[Support Cost] AC830: Production engineering for engineering services to support new acquisition and in production ammunition.																		
(†) indicates the presence of a P-5a																		
Footnotes:																		
(1) FY 2019 Product Improvement Program will address cartridge case obsolesces for the 5"/54 propelling charge (DA65).																		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition					Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition				
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
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		2015	MCALESTER AAP3 / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Mar 2015	Apr 2018	18,330	907.75	Y		Nov 2014
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		2016	MCALESTER AAP3 / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Mar 2016	Dec 2018	9,005	925.93	Y		Nov 2015
1.1.3) 5"/54 CHG, PROP, FULL (DA65) ^(†)		2018	TBD / TBD	C / FFP	NSWC IH	Jun 2018	Jun 2019	17,499	998.62	N	Feb 2018	Feb 2018
1.1.3) 5"/54 CHG, PROP, FULL (DA65) ^(†)		2019	TBD / TBD	C / FFP	NSWC IH	Mar 2019	Mar 2020	17,394	1,018.57	N	Feb 2018	Feb 2018
1.1.4) 5"54 PROJ, BLP/T (D349) ^(†)		2015	CRANE ARMY AMMUNITION ACTIVITY1 / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2015	Aug 2016	9,024	438.94	Y		Oct 2014
1.1.4) 5"54 PROJ, BLP/T (D349) ^(†)		2016	CRANE ARMY AMMUNITION ACTIVITY1 / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2016	Aug 2017	13,659	442.78	Y		Nov 2015
1.1.4) 5"54 PROJ, BLP/T (D349) ^(†)		2017	CRANE ARMY AMMUNITION ACTIVITY1 / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2017	Jun 2019	10,014	465.61	Y		Oct 2016
1.1.4) 5"54 PROJ, BLP/T (D349) ^(†)		2019	TBD / TBD	C / FFP	NSWC IH	Mar 2019	Sep 2020	4,944	489.19	N	Mar 2018	Nov 2018
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48) ^(†)		2013	CRANE ARMY AMMUNITION ACTIVITY1 / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Apr 2014	Nov 2017	10,464	1,954.42	Y		Nov 2012
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48) ^(†)		2015	CRANE ARMY AMMUNITION ACTIVITY2 / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2018	4,992	2,071.71	Y		Oct 2014
1.1.6) MK187 MOD 0 PROJECTILE (DA53) ^(†)		2019	TBD / TBD	C / FFP	NSWC IH	Mar 2019	Sep 2021	13,784	3,486.22	N	Mar 2018	Nov 2018

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																		Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition											Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition																							
Cost Elements (Units in Thousands)							Fiscal Year 2014											Fiscal Year 2015											B A L A N C E												
O C C #	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										
1.1.2) 5/54 CHG, PROP, FULL (D326)																																									
Prior Years Deliveries: 46992																																									
	1	2015	NAVY	18.330	.000	18.330												A -	-	-	-	-	-	-	-								18.330								
	1	2016	NAVY	9.005	.000	9.005																							9.005												
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																																									
	2	2018	NAVY	17.499	.000	17.499																							17.499												
	2	2019	NAVY	17.394	.000	17.394																							17.394												
1.1.4) 5"54 PROJ, BLP/T (D349)																																									
Prior Years Deliveries: 19240																																									
	4	2015	NAVY	9.024	.000	9.024												A -	-	-	-	-	-	-	-								9.024								
	4	2016	NAVY	13.659	.000	13.659																							13.659												
	4	2017	NAVY	10.014	.000	10.014																							10.014												
	3	2019	NAVY	4.944	.000	4.944																							4.944												
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48)																																									
Prior Years Deliveries: 13488																																									
	5	2013	NAVY	10.464	.000	10.464												A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.464							
	6	2015	NAVY	4.992	.000	4.992																							A -	-	-	-	-	-	-	-	-	-	-	-	4.992
1.1.6) MK187 MOD 0 PROJECTILE (DA53)																																									
	7	2019	NAVY	13.784	.000	13.784																														13.784					
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition										Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition												
Cost Elements <i>(Units in Thousands)</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	
1.1.2) 5/54 CHG, PROP, FULL (D326)																																
Prior Years Deliveries: 46992																																
	1	2015	NAVY	18.330	.000	18.330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.330	
	1	2016	NAVY	9.005	.000	9.005						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.005	
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																																
	2	2018	NAVY	17.499	.000	17.499																									17.499	
	2	2019	NAVY	17.394	.000	17.394																									17.394	
1.1.4) 5"54 PROJ, BLP/T (D349)																																
Prior Years Deliveries: 19240																																
	4	2015	NAVY	9.024	.000	9.024	-	-	-	-	-	-	-	-	-	-	5.000	4.024													.000	
	4	2016	NAVY	13.659	.000	13.659						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.128	5.000	2.531	
	4	2017	NAVY	10.014	.000	10.014																			A -	-	-	-	-	-	-	10.014
	3	2019	NAVY	4.944	.000	4.944																									4.944	
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48)																																
Prior Years Deliveries: 13488																																
	5	2013	NAVY	10.464	.000	10.464	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.464	
	6	2015	NAVY	4.992	.000	4.992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.992	
1.1.6) MK187 MOD 0 PROJECTILE (DA53)																																
	7	2019	NAVY	13.784	.000	13.784																									13.784	
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition										Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition																
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2018										Fiscal Year 2019													B A L A N C E						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT				Calendar Year 2018										Calendar Year 2019																
							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					
1.1.2) 5/54 CHG, PROP, FULL (D326)																																				
Prior Years Deliveries: 46992																																				
	1	2015	NAVY	18.330	.000	18.330	-	-	-	-	-	-	10.000	8.330																	.000					
	1	2016	NAVY	9.005	.000	9.005	-	-	-	-	-	-	-	-	-	-	-	-	-	5.000	4.005										.000					
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																																				
	2	2018	NAVY	17.499	.000	17.499									A -	-	-	-	-	-	-	-	-	-	-	-	-	5.000	5.000	5.000	2.499	.000				
	2	2019	NAVY	17.394	.000	17.394																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	17.394
1.1.4) 5"54 PROJ, BLP/T (D349)																																				
Prior Years Deliveries: 19240																																				
	4	2015	NAVY	9.024	9.024	.000																									.000					
	4	2016	NAVY	13.659	11.128	2.531	2.531																								.000					
	4	2017	NAVY	10.014	.000	10.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.000	5.014			.000						
	3	2019	NAVY	4.944	.000	4.944																A -	-	-	-	-	-	-	-	-	-	-	-	-	4.944	
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48)																																				
Prior Years Deliveries: 13488																																				
	5	2013	NAVY	10.464	.000	10.464	-	2.000	2.000	2.000	2.000	2.000	.464																		.000					
	6	2015	NAVY	4.992	.000	4.992	-	-	-	-	-	2.000	2.000	.992																	.000					
1.1.6) MK187 MOD 0 PROJECTILE (DA53)																																				
	7	2019	NAVY	13.784	.000	13.784																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	13.784
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition										Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition											
Cost Elements (Units in Thousands)							Fiscal Year 2020										Fiscal Year 2021										BALANCE				
OCO#	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP
1.1.2) 5/54 CHG, PROP, FULL (D326)																															
Prior Years Deliveries: 46992																															
	1	2015	NAVY	18.330	18.330	.000																						.000			
	1	2016	NAVY	9.005	9.005	.000																						.000			
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																															
	2	2018	NAVY	17.499	17.499	.000																						.000			
	2	2019	NAVY	17.394	.000	17.394	-	-	-	-	-	5.000	5.000	5.000	2.394													.000			
1.1.4) 5"54 PROJ, BLP/T (D349)																															
Prior Years Deliveries: 19240																															
	4	2015	NAVY	9.024	9.024	.000																						.000			
	4	2016	NAVY	13.659	13.659	.000																						.000			
	4	2017	NAVY	10.014	10.014	.000																						.000			
	3	2019	NAVY	4.944	.000	4.944	-	-	-	-	-	-	-	-	-	-	-	-	4.944									.000			
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48)																															
Prior Years Deliveries: 13488																															
	5	2013	NAVY	10.464	10.464	.000																						.000			
	6	2015	NAVY	4.992	4.992	.000																						.000			
1.1.6) MK187 MOD 0 PROJECTILE (DA53)																															
	7	2019	NAVY	13.784	.000	13.784	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.000	8.784	
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition													Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition										
Cost Elements (Units in Thousands)							Fiscal Year 2022													Fiscal Year 2023												BALANCE	
OCO#	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1.1.2) 5/54 CHG, PROP, FULL (D326)																																	
Prior Years Deliveries: 46992																																	
	1	2015	NAVY	18.330	18.330	.000																											.000
	1	2016	NAVY	9.005	9.005	.000																											.000
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																																	
	2	2018	NAVY	17.499	17.499	.000																											.000
	2	2019	NAVY	17.394	17.394	.000																											.000
1.1.4) 5"54 PROJ, BLP/T (D349)																																	
Prior Years Deliveries: 19240																																	
	4	2015	NAVY	9.024	9.024	.000																											.000
	4	2016	NAVY	13.659	13.659	.000																											.000
	4	2017	NAVY	10.014	10.014	.000																											.000
	3	2019	NAVY	4.944	4.944	.000																											.000
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48)																																	
Prior Years Deliveries: 13488																																	
	5	2013	NAVY	10.464	10.464	.000																											.000
	6	2015	NAVY	4.992	4.992	.000																											.000
1.1.6) MK187 MOD 0 PROJECTILE (DA53)																																	
	7	2019	NAVY	13.784	5.000	8.784	-	5.000	-	3.784																							.000
							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: 1508N / 01 / 1				P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition				Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition			

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	MCALESTER AAP3 - MCALESTER, OK	5,000	60,000	120,000	6	6	33	39	6	6	34	40
2	TBD - TBD	5,000	60,000	120,000	6	6	18	24	6	6	12	18
3	TBD - TBD	3,000	36,000	60,000	6	6	21	27	6	6	18	24
4	CRANE ARMY AMMUNITION ACTIVITY1 - NSWC CRANE, IND	3,000	36,000	60,000	6	6	27	33	6	6	17	23
5	CRANE ARMY AMMUNITION ACTIVITY1 - NSWC CRANE, IND	3,000	24,000	30,000	6	6	43	49	6	6	23	29
6	CRANE ARMY AMMUNITION ACTIVITY2 - NSWC CRANE, IND	3,000	24,000	30,000	6	6	36	42	6	6	28	34
7	TBD - TBD	3,000	6,000	15,000	6	3	30	33	6	3	24	27

"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: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo					
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>)	135.400	26.096	12.804	33.613	0.000	33.613	37.193	37.892	38.659	39.418	-	361.075
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	135.400	26.096	12.804	33.613	0.000	33.613	37.193	37.892	38.659	39.418	-	361.075
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	135.400	26.096	12.804	33.613	0.000	33.613	37.193	37.892	38.659	39.418	-	361.075
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2019 funding request was reduced by \$0.018 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. Program procures intermediate caliber family of fixed ammunition for United States Navy and United States Coast Guard (USCG) use. The Navy's primary use for intermediate caliber ammunition is to engage both surface and air targets. USCG primary use is for drug interdiction, homeland defense, and Visit, Board, Search and Seize (VBSS). Intermediate caliber ammunition is currently employed on the Littoral Combat Ship (LCS), and the USCG National Security Cutter.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo				
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	Intermediate Caliber Gun Ammo	P-5a, P-21			- / 135.400	- / 26.096	- / 12.804	- / 33.613	- / -	- / 33.613
P-40	Total Gross/Weapon System Cost				- / 135.400	- / 26.096	- / 12.804	- / 33.613	- / 0.000	- / 33.613
*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: FY2019 baseline funding is for low rate initial production (LRIP) of the 57MM ALaMO guided high explosive projectiles and low cost high explosive point detonating ammunition. 57MM ALaMO LRIP is procured in FY2019 in accordance with Navy reports to Congress in response to House Reports 114-537 and 115-200 and to meet FY2020 Initial Operational Capability (IOC). 57MM ammunition is used in the MK110 Gun to provide Anti Air Warfare, Anti Surface Warfare and Fast Attack Craft/Fast Attack In-Shore Craft (FAC/FAIC) defense on USN LCS and USCG Maritime Security Cutter Large platforms. Baseline program also funds Production Engineering, Product Improvement, and Gauge Requirements for all 57MM ammunition.										

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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: 1508N / 01 / 1								P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo							Aggregated Items Title: Intermediate Caliber Gun Ammo					
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) AL100 TRANSPORTATION ACCOUNT CODE ⁽¹⁾																				
1.1) TRANSPORTATION ACCOUNT CODE	A		-	-	0.246	-	-	0.069	-	-	0.069	-	-	0.068	-	-	-	-	-	0.068
Subtotal: 1) AL100 TRANSPORTATION ACCOUNT CODE			-	-	0.246	-	-	0.069	-	-	0.069	-	-	0.068	-	-	-	-	-	0.068
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE																				
2.1) CART., 57MM DUMMY, RAMMABLE (BA50) ^(†)	A		323.77	244	0.079	-	-	-	-	-	-	490.00	600	0.294	-	-	-	490.00	600	0.294
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)	A		4,695.69	16,457	77.277	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) CART., 57MM TP MK296 (BA23) ^(†)	A		2,657.55	12,209	32.446	2,096.19	3,690	7.735	-	-	-	-	-	-	-	-	-	-	-	-
2.4) CART 57MM ALaMO (HE-4G) ^(†)	A		-	-	-	-	-	-	-	-	-	13,000.00	1,500	19.500	-	-	-	13,000.00	1,500	19.500
2.5) CART., 57MM, HE-PD ^{(2)(†)}	A		1,550.00	2,800	4.340	4,333.33	1,500	6.500	1,500.00	5,570	8.355	1,750.00	6,616	11.578	-	-	-	1,750.00	6,616	11.578
Subtotal: 2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE			-	-	114.142	-	-	14.235	-	-	8.355	-	-	31.372	-	-	-	-	-	31.372
3) AL830 PRODUCTION ENGINEERING ⁽³⁾																				
3.1) PRODUCTION ENGINEERING	A		-	-	12.143	-	-	2.251	-	-	2.223	-	-	2.133	-	-	-	-	-	2.133
Subtotal: 3) AL830 PRODUCTION ENGINEERING			-	-	12.143	-	-	2.251	-	-	2.223	-	-	2.133	-	-	-	-	-	2.133
4) AL850 PRODUCT IMPROVEMENT ⁽⁴⁾																				
4.1) PRODUCT IMPROVEMENT	A		-	-	8.177	-	-	9.458	-	-	2.073	-	-	-	-	-	-	-	-	-
Subtotal: 4) AL850 PRODUCT IMPROVEMENT			-	-	8.177	-	-	9.458	-	-	2.073	-	-	-	-	-	-	-	-	-
5) AL894 GAUGE REQUIREMENTS ⁽⁵⁾																				
5.1) GAUGE REQUIREMENTS	A		-	-	0.692	-	-	0.083	-	-	0.084	-	-	0.040	-	-	-	-	-	0.040
Subtotal: 5) AL894 GAUGE REQUIREMENTS			-	-	0.692	-	-	0.083	-	-	0.084	-	-	0.040	-	-	-	-	-	0.040
Total			-	-	135.400	-	-	26.096	-	-	12.804	-	-	33.613	-	-	-	-	-	33.613
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: 1508N / 01 / 1	P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo	Aggregated Items Title: Intermediate Caliber Gun Ammo
⁽¹⁾ AL100: Provides for complete rounds and conducts acceptance testing of intermediate caliber ammunition. Procurement includes intermediate caliber ammunition, all types, and includes high explosive service rounds, Target Practice and dummy rounds. Provides for cost associated with Transportation Account Code (TAC) that are for first destination of delivery of production items. ⁽²⁾ FY18 57MM HE-PD will be procured as a low cost tactical alternative to 57MM3P MK295 (BA22). ⁽³⁾ AL830: Production Engineering - Provides for production engineering services to support new acquisition and in production ammunition. ⁽⁴⁾ AL850: Product Improvement engineering services and related efforts by government activities, the producing contractor or manufacturing installation, are executed to extend the useful military life of an item or to improve the item within the current performance envelope. ⁽⁵⁾ AL894: Gauge Requirements - Provides for procurement of gauges, auxiliary and test equipment and support costs necessary for ammunition metrology to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo					Aggregated Items: Intermediate Caliber Gun Ammo			
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) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE												
2.1) CART., 57MM DUMMY, RAMMABLE (BA50)		2019	TBD / TBD	C / FFP	NSWC-IH	Mar 2019	Nov 2019	600	490.00	Y		Oct 2018
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)		2013	BAE SYSTEMS / MINNESOTA	SS / FFP	Picatinny, NJ	Apr 2014	May 2018	2,500	6,790.47	Y		Aug 2013
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)		2014	BAE SYSTEMS / MINNESOTA	SS / FFP	NSWC-IH	May 2015	Aug 2018	6,360	4,113.40	Y		Oct 2014
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)		2016	BAE SYSTEMS / MINNESOTA	SS / FFP	Picatinny, NJ	Aug 2016	Aug 2019	3,580	4,278.47	Y		Jan 2016
2.3) CART., 57MM TP MK296 (BA23) ^(†)		2016	VARIOUS / VARIOUS	C / FFP	Picatinny, NJ	Nov 2016	Aug 2017	2,340	1,897.44	Y		Feb 2016
2.3) CART., 57MM TP MK296 (BA23) ^(†)		2017	BAE SYSTEMS INC / MINNESOTA	SS / FFP	Picatinny, NJ	May 2018	Apr 2020	3,690	2,096.19	Y		Oct 2017
2.4) CART 57MM ALaMO (HE-4G) ^(†)		2019	L-3 MUSTANG / DALLAS, TX	SS / CPFF	NAVSEA	Jan 2019	Oct 2020	1,500	13,000.00	Y		Jan 2018
2.5) CART., 57MM, HE-PD ^{(2)(†)}		2016	VARIOUS / VARIOUS	C / FFP	Picatinny, NJ	Nov 2016	Mar 2018	2,800	1,550.00	Y		Feb 2016
2.5) CART., 57MM, HE-PD ^{(2)(†)}		2017	VARIOUS / VARIOUS	C / FFP	Picatinny, NJ	Nov 2017	Mar 2019	1,500	4,333.33	Y		Feb 2016
2.5) CART., 57MM, HE-PD ^{(2)(†)}		2018	TBD / TBD	C / FFP	Picatinny, NJ	Jun 2018	Dec 2019	5,570	1,500.00	N	Feb 2018	Mar 2018
2.5) CART., 57MM, HE-PD ^{(2)(†)}		2019	TBD / TBD	C / FFP	Picatinny, NJ	Mar 2019	Aug 2020	6,616	1,750.00	N	Feb 2018	Sep 2018

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo													Aggregated Items: Intermediate Caliber Gun Ammo												
Items <i>(Units in Each)</i>							Fiscal Year 2014											Fiscal Year 2015											BALANCE						
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014											Calendar Year 2015																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG	SEP				
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE																																			
2.2) CART., 57MM, 3P MK295 (BA22)																																			
Prior Years Deliveries: 4017																																			
	22	2013	NAVY	2,500	0	2,500							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,500				
	21	2014	NAVY	6,360	0	6,360																							A -	-	-	-	-	-	6,360
	23	2016	NAVY	3,580	0	3,580																											3,580		
2.3) CART., 57MM TP MK296 (BA23)																																			
Prior Years Deliveries: 9869																																			
	24	2016	NAVY	2,340	0	2,340																											2,340		
	25	2017	NAVY	3,690	0	3,690																											3,690		
2.4) CART 57MM ALaMO (HE-4G)																																			
	26	2019	NAVY	1,500	0	1,500																											1,500		
2.5) CART., 57MM, HE-PD ⁽²⁾																																			
	28	2016	NAVY	2,800	0	2,800																											2,800		
	28	2017	NAVY	1,500	0	1,500																											1,500		
	27	2018	NAVY	5,570	0	5,570																											5,570		
	27	2019	NAVY	6,616	0	6,616	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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LI 0266 - Intermediate Caliber Gun Ammo
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Exhibit P-21, Production Schedule: PB 2019 Navy																	Date: February 2018															
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo										Aggregated Items: Intermediate Caliber Gun Ammo												
Items (Units in Each)							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	
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE																																
2.2) CART., 57MM, 3P MK295 (BA22)																																
Prior Years Deliveries: 4017																																
22	2013	NAVY		2,500	0	2,500	-	-	-	-	-	-	-	2,500																	0	
21	2014	NAVY		6,360	0	6,360	-	-	-	-	-	-	-	-	-	-	3,000	3,360													0	
23	2016	NAVY		3,580	0	3,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000	1,000	1,580	
2.3) CART., 57MM TP MK296 (BA23)																																
Prior Years Deliveries: 9869																																
24	2016	NAVY		2,340	2,340	0																									0	
25	2017	NAVY		3,690	0	3,690								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,690	
2.4) CART 57MM ALaMO (HE-4G)																																
26	2019	NAVY		1,500	0	1,500																A -	-	-	-	-	-	-	-	-	1,500	
2.5) CART., 57MM, HE-PD ⁽²⁾																																
28	2016	NAVY		2,800	0	2,800	-	-	-	-	-	2,800																			0	
28	2017	NAVY		1,500	0	1,500		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,500							0	
27	2018	NAVY		5,570	0	5,570								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,570	
27	2019	NAVY		6,616	0	6,616																	A -	-	-	-	-	-	-	-	6,616	
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo														Aggregated Items: Intermediate Caliber Gun Ammo											
Items (Units in Each)							Fiscal Year 2020												Fiscal Year 2021														BALANCE		
OCO#	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020																		Calendar Year 2021										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE																																			
2.2) CART., 57MM, 3P MK295 (BA22)																																			
Prior Years Deliveries: 4017																																			
	22	2013	NAVY	2,500	2,500	0																											0		
	21	2014	NAVY	6,360	6,360	0																											0		
	23	2016	NAVY	3,580	2,000	1,580	1,000	580																									0		
2.3) CART., 57MM TP MK296 (BA23)																																			
Prior Years Deliveries: 9869																																			
	24	2016	NAVY	2,340	2,340	0																											0		
	25	2017	NAVY	3,690	0	3,690	-	-	-	-	-	-	2,000	1,690																		0			
2.4) CART 57MM ALaMO (HE-4G)																																			
	26	2019	NAVY	1,500	0	1,500	-	-	-	-	-	-	-	-	-	-	-	500	500	500											0				
2.5) CART., 57MM, HE-PD ⁽²⁾																																			
	28	2016	NAVY	2,800	2,800	0																											0		
	28	2017	NAVY	1,500	1,500	0																											0		
	27	2018	NAVY	5,570	0	5,570	-	-	3,878	1,692																			0						
	27	2019	NAVY	6,616	0	6,616	-	-	-	-	-	-	-	-	-	-	6,616																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: 1508N / 01 / 1					P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo				Aggregated Items: Intermediate Caliber Gun Ammo			
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	BAE SYSTEMS - MINNESOTA	5,000	12,600	35,280	6	6	25	31	6	6	39	45
2	BAE SYSTEMS - MINNESOTA	10,000	12,600	35,280	6	6	49	55	6	6	29	35
3	BAE SYSTEMS - MINNESOTA	2,300	7,500	15,000	6	8	36	44	6	6	18	24
4	VARIOUS - VARIOUS	2,300	7,500	15,000	6	6	18	24	6	6	9	15
5	BAE SYSTEMS INC - MINNESOTA	2,300	7,500	15,000	6	6	23	29	6	6	12	18
6	L-3 MUSTANG - DALLAS, TX	500	5,000	10,000	6	3	21	24	6	3	12	15
7	TBD - TBD	10,000	12,000	30,000	6	5	18	23	6	5	12	17
8	VARIOUS - VARIOUS	10,000	12,000	30,000	6	6	12	18	6	6	12	18

"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: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition					
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>)	210.449	48.209	61.283	42.142	2.538	44.680	41.367	42.215	43.061	43.921	-	535.185
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	210.449	48.209	61.283	42.142	2.538	44.680	41.367	42.215	43.061	43.921	-	535.185
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	210.449	48.209	61.283	42.142	2.538	44.680	41.367	42.215	43.061	43.921	-	535.185
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2019 funding request was reduced by \$0.016 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. Program procures Other Ship Gun Ammunition which consists of medium caliber types (20MM, 25MM, 30MM, 40MM). This ammunition is used onboard every USN ship, multiple US Coast Guard vessels and by USN ashore warfare forces including Naval Expeditionary Combat Command (NECC), Mobile Security Forces (MSF), fleet combat readiness groups, inshore undersea warfare groups and several other types of operational units. 20MM ammunition is used with the MK 15 Close In Weapon System (CIWS) for ship self-defense from cruise missiles, aircraft and surface threats. 25MM ammunition is used with the MK 38 MOD 2 Machine Gun System to conduct Anti-Surface Warfare (ASuW) and ship self-defense against Fast Attack Craft (FAC) and Fast In-Shore Attack Craft (FIAC) on DDG 51, CG, LHD, LSD, AS, PC and CVN ship classes. 30MM ammunition is used with the MK 46 MOD 2 Gun Weapon System (GWS) for ASuW and FAC/FIAC defense on LPD and LCS ship classes. 40MM ammunition provides anti-terrorism/force protection and combat capabilities to ships' crew and ashore forces. This program also supports Naval Special Warfare (NSW) service common munitions which are required to provide US Navy SEAL teams, NSW small tactical units and task groups and Special Boat Teams with a fire power advantage, area target engagement, standoff and extended range capability, as well as an anti-armor capability. This includes medium caliber mortars and stand-off weapons systems such as 40MM, 60MM and 81MM and Javelin. These munitions provide NSW an essential force protection capability and increases the combat power of NSW tactical elements.												
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023		
Navy	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	48.156	61.227	42.085	2.538	44.623	41.312	42.159	43.004	43.863		
NR	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	0.053	0.056	0.057	-	0.057	0.055	0.056	0.057	0.058		
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	48.209	61.283	42.142	2.538	44.680	41.367	42.215	43.061	43.921		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition				
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-5	1 / Integrated Warfare Systems	P-5a, P-21			- / 199.855	- / 42.442	- / 37.687	- / 38.214	- / 0.000	- / 38.214
P-5	2 / Naval Special Warfare	P-5a, P-21			- / 10.594	- / 5.767	- / 23.596	- / 3.928	- / 2.538	- / 6.466
P-40	Total Gross/Weapon System Cost				- / 210.449	- / 48.209	- / 61.283	- / 42.142	- / 2.538	- / 44.680
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2019 baseline funding procures 20MM ammunition used for ship defense in MK15 Close-In Weapon System, 25MM ammunition used for Fast Attack Craft/Fast Attack In-Shore Craft (FAC/FIAC) defense in MK38 MOD 2 Machine Gun System on all platforms other than LPD and LCS, and 30MM ammunition used for FAC/FIAC defense in MK46 MOD 2 Gun Weapon System on LPD and LCS. Baseline funding also provides Production Engineering and Gauge requirements for 20MM, 25MM, and 30MM ammunition. FY 2019 baseline funding also procures Naval Special Warfare (NSW) stand off weapon rounds including 66MM munitions for the M72 Light Anti-armor Weapon. Baseline program funds are also necessary for production engineering as required by DoD and Navy safety and acquisition regulations. OCO: FY 2019 Overseas Contingency Operations (OCO) funding is required to replenish service common munitions expended by Naval Special Warfare (NSW) in pre-deployment training and combat operations in theater in support of Operation Inherent Resolve (OIR). NSW inventory in stand-off and anti-armored vehicle weapons are being depleted in increasing rates in order to meet urgent combat operation requirements in theater. These systems deliver a critical force protection capability, and provide responsive fires for US Navy SEAL Teams deployed in combat theaters/ critical areas of operations.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems						
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>				199.855		42.442		37.687		38.214		0.000		38.214				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				199.855		42.442		37.687		38.214		0.000		38.214				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				199.855		42.442		37.687		38.214		0.000		38.214				
(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 - 25MM - (AG100) CARTRIDGES Cost																		
Recurring Cost																		
1.1.1) CART., 25MM M APDS-T (A974)	94.02	45,000	4.231	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
1.1.2) CTG, 25MM, TP-T, M793 (A976) ^(†)	71.82	133,680	9.601	31.74	90,914	2.886	26.29	121,950	3.206	26.82	88,000	2.360	-	-	0.000	26.82	88,000	2.360
Subtotal: Recurring Cost	-	-	13.832	-	-	2.886	-	-	3.206	-	-	2.360	-	-	0.000	-	-	2.360
Subtotal: Hardware - 25MM - (AG100) CARTRIDGES Cost	-	-	13.832	-	-	2.886	-	-	3.206	-	-	2.360	-	-	0.000	-	-	2.360
Hardware - 30MM - (AG100) CARTRIDGES Cost																		
Recurring Cost																		
2.1.1) CART., 30MM APFSDS-T (AB51) ^(†)	405.73	59,796	24.261	365.58	51,993	19.008	403.45	24,486	9.879	383.44	32,957	12.637	-	-	0.000	383.44	32,957	12.637
2.1.2) CART., 30MM TP-T LKD (AA90) ^(†)	53.67	149,852	8.043	-	-	0.000	53.49	27,519	1.472	-	-	0.000	-	-	0.000	-	-	0.000
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)	131.51	269,158	35.398	135.81	21,284	2.891	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	67.702	-	-	21.899	-	-	11.351	-	-	12.637	-	-	0.000	-	-	12.637
Subtotal: Hardware - 30MM - (AG100) CARTRIDGES Cost	-	-	67.702	-	-	21.899	-	-	11.351	-	-	12.637	-	-	0.000	-	-	12.637
Hardware - 40MM - (AG100) CARTRIDGES Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
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)
Recurring Cost																		
3.1.1) CTG 40MM HEDP (B546)	43.82	81,106	3.554	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576)	15.36	1,363,866	20.945	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.1.3) CTG, 40MM, BLANK, SAL 200 GRAMS BRASS (B650)	43.88	27,918	1.225	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.1.4) CTG., 40MM M583A1 (B535)	44.18	31,460	1.390	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.1.5) CTG., 40MM, BLANK, SAL 50 GRAMS STEEL (B550)	55.87	6,300	0.352	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	27.466	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - 40MM - (AG100) CARTRIDGES Cost	-	-	27.466	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - OTHER - (AG100) CARTRIDGES Cost																		
Recurring Cost																		
4.1.1) TRANSPORTATION ACCT CODE	-	-	2.572	-	-	0.360	-	-	0.312	-	-	0.318	-	-	0.000	-	-	0.318
4.1.2) PE/QA SMCA	-	-	1.775	-	-	0.187	-	-	0.186	-	-	0.563	-	-	0.000	-	-	0.563
Subtotal: Recurring Cost	-	-	4.347	-	-	0.547	-	-	0.498	-	-	0.881	-	-	0.000	-	-	0.881
Subtotal: Hardware - OTHER - (AG100) CARTRIDGES Cost	-	-	4.347	-	-	0.547	-	-	0.498	-	-	0.881	-	-	0.000	-	-	0.881
Hardware - (AG200) CARTRIDGES Cost																		
Recurring Cost																		
5.1.1) CART., 20MM DUMMY, M51A4N (AA20) ^(†)	11.62	283,290	3.291	-	-	0.000	14.66	20,800	0.305	14.95	24,960	0.373	-	-	0.000	14.95	24,960	0.373
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)	32.08	2,350,314	75.394	41.44	348,726	14.451	32.79	599,150	19.646	33.40	568,500	18.988	-	-	0.000	33.40	568,500	18.988
Subtotal: Recurring Cost	-	-	78.685	-	-	14.451	-	-	19.951	-	-	19.361	-	-	0.000	-	-	19.361
Subtotal: Hardware - (AG200) CARTRIDGES Cost	-	-	78.685	-	-	14.451	-	-	19.951	-	-	19.361	-	-	0.000	-	-	19.361

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems						
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 - OTHER - (AG200) CARTRIDGES Cost																		
Recurring Cost																		
6.1.1) PE/QA SMCA-AG200	-	-	1.035	-	-	0.113	-	-	0.207	-	-	0.451	-	-	0.000	-	-	0.451
Subtotal: Recurring Cost	-	-	1.035	-	-	0.113	-	-	0.207	-	-	0.451	-	-	0.000	-	-	0.451
Subtotal: Hardware - OTHER - (AG200) CARTRIDGES Cost	-	-	1.035	-	-	0.113	-	-	0.207	-	-	0.451	-	-	0.000	-	-	0.451
Hardware - (AG894) GAUGE REQUIREMENTS Cost																		
Recurring Cost																		
7.1.1) GAUGE REQUIREMENTS	-	-	0.425	-	-	0.075	-	-	0.038	-	-	0.039	-	-	0.000	-	-	0.039
Subtotal: Recurring Cost	-	-	0.425	-	-	0.075	-	-	0.038	-	-	0.039	-	-	0.000	-	-	0.039
Subtotal: Hardware - (AG894) GAUGE REQUIREMENTS Cost	-	-	0.425	-	-	0.075	-	-	0.038	-	-	0.039	-	-	0.000	-	-	0.039
Support - (AG830) PRODUCTION ENGINEERING Cost																		
8.1) PRODUCTION ENGINEERING	-	-	6.363	-	-	2.471	-	-	2.436	-	-	2.485	-	-	0.000	-	-	2.485
Subtotal: Support - (AG830) PRODUCTION ENGINEERING Cost	-	-	6.363	-	-	2.471	-	-	2.436	-	-	2.485	-	-	0.000	-	-	2.485
Gross/Weapon System Cost	-	-	199.855	-	-	42.442	-	-	37.687	-	-	38.214	-	-	0.000	-	-	38.214
Remarks:																		
[Hardware] AG100/AG200: INTEGRATED WARFARE SYSTEMS - Provides all up rounds and acceptance testing. Unit costs and quantities are adjusted during year of execution. Provides for Transportation Account Code (TAC) first destination delivery of production items and Single Manager Conventional Ammunition (SMCA) related costs.																		
[Hardware] AG894: GAUGE REQUIREMENTS - Provides for procurement of gauges, auxiliary and test equipment, and support costs necessary for ammunition metrology to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance																		
[Support Cost] AG830: PRODUCTION ENGINEERING - Provides for production engineering services to support new acquisition and in production ammunition.																		
(†) 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: 1508N / 01 / 1			P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
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
1.1.2) CTG, 25MM, TP-T, M793 (A976)		2016	GENERAL DYNAMICS OTS / MARION, IL	C / FFP	JMC ROCK ISLAND	Sep 2016	Jan 2018	133,680	25.27	Y		Oct 2015
1.1.2) CTG, 25MM, TP-T, M793 (A976)		2017	GENERAL DYNAMICS OTS / MARION, IL	C / FFP	JMC ROCK ISLAND	Jul 2017	Aug 2019	90,914	31.74	Y		Oct 2015
1.1.2) CTG, 25MM, TP-T, M793 (A976)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Apr 2019	121,950	26.29	Y		Oct 2015
1.1.2) CTG, 25MM, TP-T, M793 (A976)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Mar 2020	88,000	26.82	Y		Oct 2015
2.1.1) CART., 30MM APFSDS-T (AB51) ^(†)		2017	GENERAL DYNAMICS OTS / MARION, IL.	C / FFP	ACC-NJ	Nov 2017	Feb 2019	51,993	365.58	Y		Jun 2015
2.1.1) CART., 30MM APFSDS-T (AB51) ^(†)		2018	GENERAL DYNAMICS OTS / MARION, IL.	C / FFP	ACC-NJ	May 2018	Apr 2020	24,486	403.45	Y		Jun 2015
2.1.1) CART., 30MM APFSDS-T (AB51) ^(†)		2019	GENERAL DYNAMICS OTS / MARION, IL.	C / FFP	ACC-NJ	May 2019	Apr 2021	32,957	383.44	Y		Jun 2015
2.1.2) CART., 30MM TP-T LKD (AA90)		2016	GENERAL DYNAMICS OTS / MARION, IL	C / FFP	JMC ROCK ISLAND	Sep 2016	Jan 2018	112,992	55.34	Y		Sep 2012
2.1.2) CART., 30MM TP-T LKD (AA90)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	May 2019	27,519	53.49	Y		Oct 2017
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)		2015	ORBITAL ATK1 / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Jul 2015	Feb 2018	36,510	146.78	Y		Jul 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)		2016	ORBITAL ATK1 / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Sep 2017	Aug 2019	82,020	159.76	Y		Jul 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)		2017	ORBITAL ATK1 / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Sep 2017	Jul 2018	21,284	135.81	Y		Jul 2016
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2016	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	NSWC IHD	Sep 2016	May 2017	21,050	14.06	Y		Jan 2013
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2018	TBD / TBD	C / FFP	NSWC IHD	Sep 2018	Sep 2019	20,800	14.66	Y		Jun 2018
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2019	TBD / TBD	C / FFP	NSWC IHD	Mar 2019	Mar 2020	24,960	14.95	Y		Jun 2018
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)		2016 ⁽¹⁾	GD-OTS AND ORBITAL ATK / MARION, IL AND LAKE CITY, MO	C / FFP	JMC ROCK ISLAND	Jul 2016	Jan 2018	476,155	32.63	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)		2017	GD-OTS / MARION, IL	C / FFP	JMC ROCK ISLAND	Sep 2017	Jul 2018	348,726	41.44	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Jul 2018	Jul 2019	599,150	32.79	Y		Oct 2017

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
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
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Mar 2020	568,500	33.40	Y		Oct 2017

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ FY16 ORDER IS A DUAL AWARD TO BOTH GD-OTS, MARION, IL AND ORBITAL ATK, LAKE CITY, MO.

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																	
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition										Item Number / Title [DODIC]: 1 / Integrated Warfare Systems																	
Cost Elements (Units in Thousands)							Fiscal Year 2015										Fiscal Year 2016													B A L A N C E							
O C O	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 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						
2.1.1) CART., 30MM APFSDS-T (AB51)																																					
Prior Years Deliveries: 59796																																					
	1	2017	NAVY	51.993	.000	51.993																												51.993			
	1	2018	NAVY	24.486	.000	24.486																												24.486			
	1	2019	NAVY	32.957	.000	32.957																												32.957			
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)																																					
Prior Years Deliveries: 150628																																					
	2	2015	NAVY	36.510	.000	36.510											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.510			
	2	2016	NAVY	82.020	.000	82.020																												82.020			
	2	2017	NAVY	21.284	.000	21.284																												21.284			
5.1.2) CART., 20MM MK 244 ELC (AA61)																																					
Prior Years Deliveries: 1874159																																					
	4	2016	NAVY	476.155	.000	476.155																												A -	-	-	476.155
	3	2017	NAVY	348.726	.000	348.726																												348.726			
	5	2018	NAVY	599.150	.000	599.150																												599.150			
	5	2019	NAVY	568.500	.000	568.500																												568.500			
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition										Item Number / Title [DODIC]: 1 / Integrated Warfare Systems														
Cost Elements (Units in Thousands)							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																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP			
2.1.1) CART., 30MM APFSDS-T (AB51)																																		
Prior Years Deliveries: 59796																																		
	1	2017	NAVY	51.993	.000	51.993											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.993		
	1	2018	NAVY	24.486	.000	24.486																	A	-	-	-	-	-	-	-	-	-	-	24.486
	1	2019	NAVY	32.957	.000	32.957																							32.957					
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)																																		
Prior Years Deliveries: 150628																																		
	2	2015	NAVY	36.510	.000	36.510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.510						.000						
	2	2016	NAVY	82.020	.000	82.020											A	-	-	-	-	-	-	-	-	-	-	-	-	-	82.020			
	2	2017	NAVY	21.284	.000	21.284											A	-	-	-	-	-	-	-	-	-	10.000	11.284		.000				
5.1.2) CART., 20MM MK 244 ELC (AA61)																																		
Prior Years Deliveries: 1874159																																		
	4	2016	NAVY	476.155	.000	476.155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200.000	200.000	76.155						.000					
	3	2017	NAVY	348.726	.000	348.726											A	-	-	-	-	-	-	-	-	-	250.400	98.326		.000				
	5	2018	NAVY	599.150	.000	599.150																	A	-	-	-	-	-	-	-	-	599.150		
	5	2019	NAVY	568.500	.000	568.500	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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition										Item Number / Title [DODIC]: 1 / Integrated Warfare Systems														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2019										Fiscal Year 2020										B A L A N C E							
O C C #	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			
2.1.1) CART., 30MM APFSDS-T (AB51)																																		
Prior Years Deliveries: 59796																																		
	1	2017	NAVY		51.993	.000	51.993	-	-	-	-	10.000	10.000	10.000	10.000	11.993															.000			
	1	2018	NAVY		24.486	.000	24.486	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.812	4.198	5.476			.000			
	1	2019	NAVY		32.957	.000	32.957									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.957	
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)																																		
Prior Years Deliveries: 150628																																		
	2	2015	NAVY		36.510	36.510	.000																								.000			
	2	2016	NAVY		82.020	.000	82.020	-	-	-	-	-	-	-	-	-	-	-	41.000	41.020											.000			
	2	2017	NAVY		21.284	21.284	.000																								.000			
5.1.2) CART., 20MM MK 244 ELC (AA61)																																		
Prior Years Deliveries: 1874159																																		
	4	2016	NAVY		476.155	476.155	.000																								.000			
	3	2017	NAVY		348.726	348.726	.000																								.000			
	5	2018	NAVY		599.150	.000	599.150	-	-	-	-	-	-	-	-	200.000	200.000	199.150													.000			
	5	2019	NAVY		568.500	.000	568.500						A -	-	-	-	-	-	-	-	-	-	-	-	200.000	200.000	168.500						.000	
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition														Item Number / Title [DODIC]: 1 / Integrated Warfare Systems													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2021														Fiscal Year 2022														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022																
							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							
2.1.1) CART., 30MM APFSDS-T (AB51)																																					
Prior Years Deliveries: 59796																																					
	1	2017	NAVY	51.993	51.993	.000																											.000				
	1	2018	NAVY	24.486	24.486	.000																											.000				
	1	2019	NAVY	32.957	.000	32.957	-	-	-	-	-	-	10.000	10.000	10.000	2.957																	.000				
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)																																					
Prior Years Deliveries: 150628																																					
	2	2015	NAVY	36.510	36.510	.000																											.000				
	2	2016	NAVY	82.020	82.020	.000																											.000				
	2	2017	NAVY	21.284	21.284	.000																											.000				
5.1.2) CART., 20MM MK 244 ELC (AA61)																																					
Prior Years Deliveries: 1874159																																					
	4	2016	NAVY	476.155	476.155	.000																											.000				
	3	2017	NAVY	348.726	348.726	.000																											.000				
	5	2018	NAVY	599.150	599.150	.000																											.000				
	5	2019	NAVY	568.500	568.500	.000	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: 1508N / 01 / 1				P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems			
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	GENERAL DYNAMICS OTS - MARION, IL.	70	840,000	1,700,000	6	6	14	20	6	10	9	19
2	ORBITAL ATK1 - RADFORD, VA	70	840,000	1,700,000	10	10	23	33	10	10	7	17
3	GD-OTS - MARION, IL	70	840,000	1,700,000	6	6	10	16	6	6	5	11
4	GD-OTS AND ORBITAL ATK - MARION, IL AND LAKE CITY, MO	70	840,000	1,700,000	6	6	12	18	6	6	16	22
5	TBD - TBD	70	840,000	1,700,000	6	6	12	18	6	6	8	14

"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-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition						Item Number / Title [DODIC]: 2 / Naval Special Warfare						
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>				10.594		5.767		23.596		3.928		2.538		6.466				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				10.594		5.767		23.596		3.928		2.538		6.466				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				10.594		5.767		23.596		3.928		2.538		6.466				
(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 - AGNSW PE/QA SMCA Cost																		
Recurring Cost																		
1.1.1) AGNSW PE/QA SMCA	-	-	0.000	-	-	0.488	-	-	0.197	-	-	0.142	-	-	0.000	-	-	0.142
Subtotal: Recurring Cost	-	-	0.000	-	-	0.488	-	-	0.197	-	-	0.142	-	-	0.000	-	-	0.142
Subtotal: Hardware - AGNSW PE/QA SMCA Cost	-	-	0.000	-	-	0.488	-	-	0.197	-	-	0.142	-	-	0.000	-	-	0.142
Hardware - NSW Hardware Cost																		
Recurring Cost																		
2.1.1) CTG, 60MM, FULL RANGE PRACTICE, M769 (BA15) ^(†)	-	-	0.000	208.27	5,008	1.043	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.2) C868 81MM HE M821A2 ^(†)	-	-	0.000	818.43	1,957	1.602	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.3) C869 81MM HE M889A1 ^(†)	-	-	0.000	391.93	768	0.301	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.4) CTG., 40MM PRACTICE M781 f/ M203 Gren Launcher (B519) ^(†)	4.38	145,000	0.635	-	-	0.000	4.49	60,000	0.269	-	-	0.000	-	-	0.000	-	-	0.000
2.1.5) CTG 40MM PRACTICE M395A1 (B576) ^(†)	16.82	118,836	1.999	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition						Item Number / Title [DODIC]: 2 / Naval Special Warfare					
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)
2.1.6) CTG., 40MM PRACTICE, DAY/ NIGHT MARKER MK281 (BA21) ^(†)	34.05	57,269	1.950	-	-	0.000	39.38	67,968	2.677	-	-	0.000	-	-	0.000	-	-	0.000
2.1.7) CTG, 60 MM HE-PD M88 M935 (B643) ^(†)	442.74	11,709	5.184	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.8) CTG, MORTAR, 81MM HE M821A2 SERIES (CA61) ^(†) (2)	-	-	0.000	-	-	0.000	1,363.86	3,000	4.092	-	-	0.000	-	-	0.000	-	-	0.000
2.1.9) CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE (CA63) ^(†) (3)	-	-	0.000	-	-	0.000	736.17	1,000	0.736	-	-	0.000	-	-	0.000	-	-	0.000
2.1.10) ROCKET, 66MM, M72A8 LAW, FFE (HB26) ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	3,500.00	996	3.486	-	-	0.000	3,500.00	996	3.486
2.1.12) JAVELIN BLOCK 1 FGM148F ^(†)	-	-	0.000	145,000.00	13	1.885	192,000.00	74	14.208	-	-	0.000	170,200.00	12	2.042	170,200.00	12	2.042
2.1.13) JAVELIN COMPONENTS ⁽⁴⁾	-	-	0.000	-	-	0.115	-	-	0.542	-	-	0.000	-	-	0.496	-	-	0.496
Subtotal: Recurring Cost	-	-	9.768	-	-	4.946	-	-	22.524	-	-	3.486	-	-	2.538	-	-	6.024
Subtotal: Hardware - NSW Hardware Cost	-	-	9.768	-	-	4.946	-	-	22.524	-	-	3.486	-	-	2.538	-	-	6.024
Hardware - AGNSW TRANSPORTATION CODE Cost																		
Recurring Cost																		
3.1.1) AGNSW TAC CODE	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - AGNSW TRANSPORTATION CODE Cost	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.000	-	-	0.000
Support - (NS830) PRODUCTION ENGINEERING Cost																		
4.1) Production Engineering	-	-	0.826	-	-	0.333	-	-	0.375	-	-	0.300	-	-	0.000	-	-	0.300
Subtotal: Support - (NS830) PRODUCTION ENGINEERING Cost	-	-	0.826	-	-	0.333	-	-	0.375	-	-	0.300	-	-	0.000	-	-	0.300
Gross/Weapon System Cost	-	-	10.594	-	-	5.767	-	-	23.596	-	-	3.928	-	-	2.538	-	-	6.466

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Exhibit P-5, Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 2 / Naval Special Warfare
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Remarks: [Support Cost] AG830: PRODUCTION ENGINEERING - Provides for production engineering services. (t) indicates the presence of a P-5a Footnotes: ⁽²⁾ Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys. The unit cost will fluctuate depending on the total procurement. Beginning in FY18 the M821A2 round is an upgraded round, unit price includes first article and production verification testing costs. ⁽³⁾ Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys. The unit cost will fluctuate depending on the total procurement. ⁽⁴⁾ Provides for required reset components including command launch units, battery coolant units and renovation components used to upgrade unserviceable rounds into ready-for-issue condition.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition					Item Number / Title [DODIC]: 2 / Naval Special Warfare			
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
2.1.1) CTG, 60MM, FULL RANGE PRACTICE, M769 (BA15)		2017	DAY & ZIMMERMANN LONE STAR / CAMDEM, AR	C / CPFF	CAMDEN, AR	Dec 2018	Jun 2020	5,008	208.27	N	Jun 2020	Dec 2018
2.1.2) C868 81MM HE M821A2		2017	JMC ROCK ISLAND / ROCK ISLAND, IL	MIPR	JMC ROCK ISLAND	Sep 2017	Sep 2017	1,957	818.43	N	Sep 2017	Sep 2017
2.1.3) C869 81MM HE M889A1		2017	JMC ROCK ISLAND / ROCK ISLAND, IL	MIPR	JMC ROCK ISLAND	Sep 2017	Sep 2017	768	391.93	N	Sep 2017	Sep 2017
2.1.4) CTG., 40MM PRACTICE M781 f/M203 Gren Launcher (B519)		2016	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2016	Jul 2018	60,000	4.78	Y		Oct 2015
2.1.4) CTG., 40MM PRACTICE M781 f/M203 Gren Launcher (B519)		2018	AMTEC CORPORATION / JANESVILLE, WI	C / CPFF	JMC ROCK ISLAND	Mar 2018	Jan 2019	60,000	4.49	Y		Dec 2017
2.1.5) CTG 40MM PRACTICE M395A1 (B576)		2016	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2016	Aug 2017	40,000	19.15	Y		Dec 2015
2.1.6) CTG., 40MM PRACTICE, DAY/NIGHT MARKER MK281 (BA21) ^(†)		2016	RHEINMETALL / GERMANY	C / FFP	USMC Quantico	Apr 2016	Oct 2017	57,269	34.05	Y		Dec 2014
2.1.6) CTG., 40MM PRACTICE, DAY/NIGHT MARKER MK281 (BA21) ^(†)		2018	RHEINMETALL / GERMANY	C / FFP	CRANE	Apr 2018	Oct 2019	67,968	39.38	Y		Jan 2018
2.1.7) CTG, 60 MM HE-PD M88 M935 (B643) ^(†)		2016	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	1,152	442.76	Y		Dec 2014
2.1.7) CTG, 60 MM HE-PD M88 M935 (B643) ^(†)	✓	2016	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	10,557	442.76	Y		Dec 2014
2.1.8) CTG, MORTAR, 81MM HE M821A2 SERIES (CA61)	✓	2018	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Dec 2017	Jan 2020	3,000	1,363.86	Y		
2.1.9) CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE (CA63)	✓	2018	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Dec 2017	Jan 2020	1,000	736.17	Y		
2.1.10) ROCKET, 66MM, M72A8 LAW, FFE (HB26)		2019	NAMMO Talley Defense Systems / Mesa, AZ	C / TBD	Mesa,Az	Dec 2018	Jun 2020	996	3,500.00	N	Dec 2018	Dec 2018
2.1.12) JAVELIN BLOCK 1 FGM148F		2017	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE / TUCSON, AZ	C / FFP	REDSTONE	Oct 2017	Apr 2020	13	145,000.00	Y		Jul 2017
2.1.12) JAVELIN BLOCK 1 FGM148F		2018	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE / TUCSON, AZ	C / FFP	REDSTONE	Jul 2018	Jan 2021	30	192,000.00	N		Jan 2018
2.1.12) JAVELIN BLOCK 1 FGM148F	✓	2018	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE / TUCSON, AZ	C / FFP	REDSTONE	Jun 2018	Dec 2020	44	192,000.00	Y		Jan 2018

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition				Item Number / Title [DODIC]: 2 / Naval Special Warfare				
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
2.1.12) JAVELIN BLOCK 1 FGM148F	✓	2019	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE / TUCSON, AZ	C / FFP	REDSTONE	Jun 2019	Dec 2021	12	170,200.00	Y		Jan 2019

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																	
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition										Item Number / Title [DODIC]: 2 / Naval Special Warfare																	
Cost Elements (Units in Thousands)								Fiscal Year 2016												Fiscal Year 2017												B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017																		
							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							
2.1.6) CTG., 40MM PRACTICE, DAY/NIGHT MARKER MK281 (BA21)																																					
	1	2016	NAVY	57.269	.000	57.269													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.269
	1	2018	NAVY	67.968	.000	67.968																									67.968						
2.1.7) CTG, 60 MM HE-PD M88 M935 (B643)																																					
	2	2016	NAVY	1.152	.000	1.152													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.152
✓	2	2016	NAVY	10.557	.000	10.557													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.557
							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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LI 0270 - Other Ship Gun Ammunition
Navy

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition										Item Number / Title [DODIC]: 2 / Naval Special Warfare											
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2020										Fiscal Year 2021										BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP
2.1.6) CTG., 40MM PRACTICE, DAY/NIGHT MARKER MK281 (BA21)																															
	1	2016	NAVY	57.269	57.269	.000																									.000
	1	2018	NAVY	67.968	.000	67.968	67.968																								.000
2.1.7) CTG, 60 MM HE-PD M88 M935 (B643)																															
	2	2016	NAVY	1.152	1.152	.000																									.000
✓	2	2016	NAVY	10.557	10.557	.000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	.000

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Exhibit P-21, Production Schedule: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1					P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition				Item Number / Title [DODIC]: 2 / Naval Special Warfare			
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	RHEINMETALL - GERMANY	80	70,000	1,640,000	6	6	18	24	6	6	18	24
2	AMERICAN ORDNANCE LLC (IAAP) - MIDDLETOWN, IA				6	6	19	25	6	6	7	13

"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: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo

ID Code (A=Service Ready, B=Not Service Ready): B	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>)	359.323	46.727	51.364	49.888	0.000	49.888	50.611	51.016	51.829	52.869	-	713.627
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	359.323	46.727	51.364	49.888	0.000	49.888	50.611	51.016	51.829	52.869	-	713.627
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	359.323	46.727	51.364	49.888	0.000	49.888	50.611	51.016	51.829	52.869	-	713.627

(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 FY 2019 funding request was reduced by \$0.009 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.

Program procures ammunition in support of Navy ships and for active and reserve ashore warfare forces. Small Arms (22 -.50 Cal) ammunition and Landing Party ammunition includes hand grenades, riot control agents and defensive land mines for the Military Sea Lift Command, Naval Criminal Investigate Service (NCIS), Marine and Navy Air-wings, Maritime Force Protection Command, and Naval Expeditionary Combat Command.

Additionally, the Naval Special Warfare (NSW) small arms ammunition program includes 5.56mm, 7.62mm, and .50 caliber rounds required for the organic weapon systems carried by US Navy SEALs while the various hand grenades and mines are employed for force protection, break contact maneuvers, ambushes, and target assaults.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Navy	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	46.303	51.008	49.479	-	49.479	50.151	50.547	51.351	52.382
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.424	0.356	0.409	-	0.409	0.460	0.469	0.478	0.487
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	46.727	51.364	49.888	-	49.888	50.611	51.016	51.829	52.869

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo				
ID Code (A=Service Ready, B=Not Service Ready): B			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 / Integrated Warfare Systems	P-5a, P-21			- / 255.609	- / 28.509	- / 30.472	- / 30.770	- / 0.000	- / 30.770
P-5	2 / Naval Special Warfare (NSW)	P-5a, P-21			- / 103.714	- / 18.218	- / 20.892	- / 19.118	- / 0.000	- / 19.118
P-40	Total Gross/Weapon System Cost				- / 359.323	- / 46.727	- / 51.364	- / 49.888	- / 0.000	- / 49.888
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2019 baseline funding procures ammunition to support shotguns, handguns, rifles, machine guns, grenades and land mines. 12 Gauge, 5.56MM, 7.62MM, 9MM, 38 Caliber, 40 Caliber, 45 Caliber, 50 Caliber, Hand and Smoke Grenades, and Mines are used for all Active Navy Ships, and all Active and Reserve Ashore warfare forces, including Navy Expeditionary Combat Command, Maritime Expeditionary Security Forces, Inshore Undersea Warfare Groups, Military Sea Lift Command, Marine and Navy Air-Wing units, and Naval Criminal Investigative Service. Baseline funding also provides production Engineering and Gauge requirements for Small Arms Ammunition, Grenades, and Mines. FY 2019 baseline funding also procures Naval Special Warfare (NSW) ammunition to support shotguns, handguns, rifles, machine guns, grenades and land mines tactically employed by US Navy SEALs, Special Boat Teams, NSW Task Units/Groups and other NSW support groups. Procurement in FY 2018 includes 12 Gauge, 5.56MM, 7.62MM, 9MM, 45 Caliber, 50 Caliber, Hand and Smoke Grenades, and Mines. Baseline program funds are also necessary for production engineering as required by DoD and Navy safety and acquisition regulations.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo							Item Number / Title [DODIC]: 1 / Integrated Warfare Systems							
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>				255.609			28.509			30.472			30.770			0.000			30.770		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				255.609			28.509			30.472			30.770			0.000			30.770		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				255.609			28.509			30.472			30.770			0.000			30.770		
(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 - (AH100) PE/QA SMCA Cost																					
Recurring Cost																					
1.1.1) PE/QA SMCA	-	-	8.229	-	-	1.553	-	-	1.558	-	-	1.797	-	-	0.000	-	-	1.797			
Subtotal: Recurring Cost	-	-	8.229	-	-	1.553	-	-	1.558	-	-	1.797	-	-	0.000	-	-	1.797			
Subtotal: Hardware - (AH100) PE/QA SMCA Cost	-	-	8.229	-	-	1.553	-	-	1.558	-	-	1.797	-	-	0.000	-	-	1.797			
Hardware - (AH100) TRANSPORTATION ACCOUNT CODE (TAC) Cost																					
Recurring Cost																					
2.1.1) TRANSPORTATION ACCOUNT CODE (TAC)	-	-	5.411	-	-	1.200	-	-	1.300	-	-	1.400	-	-	0.000	-	-	1.400			
Subtotal: Recurring Cost	-	-	5.411	-	-	1.200	-	-	1.300	-	-	1.400	-	-	0.000	-	-	1.400			
Subtotal: Hardware - (AH100) TRANSPORTATION ACCOUNT CODE (TAC) Cost	-	-	5.411	-	-	1.200	-	-	1.300	-	-	1.400	-	-	0.000	-	-	1.400			
Hardware - (AH100) .40 CAL CARTRIDGES Cost																					
Recurring Cost																					
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW) ^(†)	0.29	2,374,200	0.699	-	-	0.000	0.32	200,000	0.064	0.33	100,000	0.033	-	-	0.000	0.33	100,000	0.033			
3.1.2) CARTRIDGE .40 CALS&W (DWGX) ^(†)	0.29	774,463	0.222	-	-	0.000	0.30	400,000	0.120	0.31	200,000	0.062	-	-	0.000	0.31	200,000	0.062			

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
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)
3.1.3) CARTRIDGE, .40 CALIBER, S&W FRANGIBLE, MK 326 MOD 0 (CWRD)	0.42	785,129	0.329	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	1.250	-	-	0.000	-	-	0.184	-	-	0.095	-	-	0.000	-	-	0.095
Subtotal: Hardware - (AH100) .40 CAL CARTRIDGES Cost	-	-	1.250	-	-	0.000	-	-	0.184	-	-	0.095	-	-	0.000	-	-	0.095
Hardware - (AH100) 50 CAL CARTRIDGES Cost																		
Recurring Cost																		
4.1.1) .50 CAL BLANK (A598)	1.37	1,921,958	2.634	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.2) CTG, .50 LINKED (A576) ^(†)	2.26	5,864,116	13.257	1.90	839,600	1.595	1.98	600,000	1.188	1.98	550,500	1.090	-	-	0.000	1.98	550,500	1.090
4.1.3) CTG, 50 CAL, MK 211, APIT, M (AA06)	-	-	5.985	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.4) CTG, 50 CAL, LKD, BALL (A555) ^(†)	1.90	11,458,000	21.794	1.71	1,305,400	2.232	1.74	1,477,586	2.571	1.77	805,000	1.425	-	-	0.000	1.77	805,000	1.425
4.1.5) CTG, 50 CAL, LKD & TRACER (A557) ^(†)	1.82	29,736,690	54.267	1.75	4,096,000	7.185	1.79	3,854,190	6.899	1.83	2,836,500	5.191	-	-	0.000	1.83	2,836,500	5.191
Subtotal: Recurring Cost	-	-	97.937	-	-	11.012	-	-	10.658	-	-	7.706	-	-	0.000	-	-	7.706
Subtotal: Hardware - (AH100) 50 CAL CARTRIDGES Cost	-	-	97.937	-	-	11.012	-	-	10.658	-	-	7.706	-	-	0.000	-	-	7.706
Hardware - (AH100) 5.56MM CARTRIDGES Cost																		
Recurring Cost																		
5.1.1) CTG, CAL 5.56MM, FRANGIBLE (AA40)	0.43	33,827,694	14.587	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.2) CTG, 5.56MM M855 (A059) ^(†)	0.25	64,155,945	15.833	0.22	8,951,040	1.969	0.24	8,472,000	2.033	0.24	6,000,000	1.440	-	-	0.000	0.24	6,000,000	1.440
5.1.3) CTG., 5.56MM, BLANK (A080)	0.24	9,069,440	2.176	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.4) CTG, 5.56MM, SRTR AMMO (AA68)	0.43	1,020,785	0.439	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.5) CTG, 5.56MM, SRTR AMMO (AB67) ^(†)	-	-	0.000	1.33	237,600	0.316	1.33	302,256	0.402	1.36	300,000	0.408	-	-	0.000	1.36	300,000	0.408

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
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)
Subtotal: Recurring Cost	-	-	33.035	-	-	2.285	-	-	2.435	-	-	1.848	-	-	0.000	-	-	1.848
Subtotal: Hardware - (AH100) 5.56MM CARTRIDGES Cost	-	-	33.035	-	-	2.285	-	-	2.435	-	-	1.848	-	-	0.000	-	-	1.848
Hardware - (AH100) 7.62MM CARTRIDGES Cost																		
Recurring Cost																		
6.1.1) CTG, 7.62MM (A257) ^(†)	0.49	2,559,000	1.259	0.48	351,000	0.168	0.48	350,000	0.168	0.48	350,000	0.168	-	-	0.000	0.48	350,000	0.168
6.1.2) CARTR, 7.62MM (AA11) ^(†)	1.05	1,729,780	1.809	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.3) CTG, 7.62MM, SRTA, BALL, LINKED M973 (AB60) ^(†)	1.91	605,830	1.158	1.79	635,196	1.137	1.82	200,000	0.364	1.86	200,000	0.372	-	-	0.000	1.86	200,000	0.372
6.1.4) CTG, 7.62MM, LKD, BALL AND TR (A131) ^(†)	0.86	35,423,677	30.312	0.51	6,882,352	3.510	0.54	6,500,000	3.510	0.54	6,000,000	3.240	-	-	0.000	0.54	6,000,000	3.240
6.1.5) CTG, 7.62MM, BALL, M80, LKD (A143) ^(†)	0.63	9,057,846	5.699	0.49	920,408	0.451	0.52	900,000	0.468	0.52	850,000	0.442	-	-	0.000	0.52	850,000	0.442
6.1.6) CTG, 7.62MM, LKD (A165) ^(†)	0.61	31,797,202	19.550	0.48	2,000,000	0.960	0.48	2,500,000	1.200	0.48	2,000,000	0.960	-	-	0.000	0.48	2,000,000	0.960
Subtotal: Recurring Cost	-	-	59.787	-	-	6.226	-	-	5.710	-	-	5.182	-	-	0.000	-	-	5.182
Subtotal: Hardware - (AH100) 7.62MM CARTRIDGES Cost	-	-	59.787	-	-	6.226	-	-	5.710	-	-	5.182	-	-	0.000	-	-	5.182
Hardware - (AH100) 38CAL CARTRIDGES Cost																		
Recurring Cost																		
7.1.1) CTG, .38 BLANK (A403) ^(†)	0.27	62,750	0.017	-	-	0.000	-	-	0.000	0.30	10,000	0.003	-	-	0.000	0.30	10,000	0.003
Subtotal: Recurring Cost	-	-	0.017	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.000	-	-	0.003
Subtotal: Hardware - (AH100) 38CAL CARTRIDGES Cost	-	-	0.017	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.000	-	-	0.003
Hardware - (AH100) 45 CAL CARTRIDGES Cost																		
Recurring Cost																		
8.1.1) CTG, .45 CAL BALL (A475)	0.27	384,000	0.102	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.102	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
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)
Subtotal: Hardware - (AH100) 45 CAL CARTRIDGES Cost	-	-	0.102	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - (AH100) 9MM CARTRIDGES Cost																		
Recurring Cost																		
9.1.1) CTG, 9MM, BALL (A363) ^(†)	0.18	81,793,648	14.876	0.16	9,000,000	1.440	0.16	11,800,000	1.888	0.17	9,000,000	1.530	-	-	0.000	0.17	9,000,000	1.530
9.1.2) CTG, 9MM, FRANGIBLE (AA16) ^(†)	0.30	3,685,485	1.111	0.31	2,500,000	0.775	0.32	2,500,000	0.800	0.32	2,500,000	0.800	-	-	0.000	0.32	2,500,000	0.800
9.1.3) (AB13) CTG, 9MM, FX, MARKING, BLUE (AB13) ^(†)	0.56	1,740,000	0.966	-	-	0.000	-	-	0.000	0.63	250,000	0.158	-	-	0.000	0.63	250,000	0.158
9.1.4) (AB14) CTG, 9MM, FX, MARKING, RED (AB14) ^(†)	0.55	4,478,000	2.466	0.55	721,818	0.397	0.63	800,000	0.504	0.63	650,000	0.410	-	-	0.000	0.63	650,000	0.410
Subtotal: Recurring Cost	-	-	19.419	-	-	2.612	-	-	3.192	-	-	2.898	-	-	0.000	-	-	2.898
Subtotal: Hardware - (AH100) 9MM CARTRIDGES Cost	-	-	19.419	-	-	2.612	-	-	3.192	-	-	2.898	-	-	0.000	-	-	2.898
Hardware - (AH100) GRENADES Cost																		
Recurring Cost																		
10.1.1) FUZE, DELAY M228 (G878) ^(†)	5.89	27,486	0.162	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ^(†)	234.13	7,701	1.803	-	-	0.000	-	-	0.000	336.10	15,250	5.126	-	-	0.000	336.10	15,250	5.126
10.1.3) GRENADE, HND, SMK, GREEN (G940) ^(†)	34.01	25,048	0.852	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
10.1.4) GRENADE, HND, SMK, VIOLET (G955) ^(†)	-	-	0.001	-	-	0.000	-	-	0.000	58.10	10,000	0.581	-	-	0.000	58.10	10,000	0.581
10.1.5) GRENADE, HND, SMK, YELLOW (G945) ^(†)	34.36	19,646	0.675	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
10.1.6) GRENADE, HND, SMK, WHITE (G982) ^(†)	30.20	15,000	0.453	-	-	0.000	31.00	10,000	0.310	31.00	14,000	0.434	-	-	0.000	31.00	14,000	0.434

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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)
10.1.7) GRENADE, HND, SMK, RED (G950) ^(†)	-	-	0.000	52.16	10,352	0.540	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
10.1.8) GRENADE, HAND, FRAG, DELAY, M67 (G881) ^(†)	-	-	0.000	-	-	0.000	37.15	30,000	1.115	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	3.946	-	-	0.540	-	-	1.425	-	-	6.141	-	-	0.000	-	-	6.141
Subtotal: Hardware - (AH100) GRENADES Cost	-	-	3.946	-	-	0.540	-	-	1.425	-	-	6.141	-	-	0.000	-	-	6.141
Hardware - (AH100) MINES Cost																		
Recurring Cost																		
11.1.1) RIOT CNTRL, CS (K765) ^(†)	0.40	22,280	0.009	-	-	0.000	-	-	0.000	0.47	10,000	0.005	-	-	0.000	0.47	10,000	0.005
Subtotal: Recurring Cost	-	-	0.009	-	-	0.000	-	-	0.000	-	-	0.005	-	-	0.000	-	-	0.005
Subtotal: Hardware - (AH100) MINES Cost	-	-	0.009	-	-	0.000	-	-	0.000	-	-	0.005	-	-	0.000	-	-	0.005
Hardware - (AH100) SHOTGUN CARTRIDGES Cost																		
Recurring Cost																		
12.1.1) CTG, 12 GA NO. 00 (A011) ^(†)	0.54	2,072,600	1.126	0.53	862,080	0.457	0.53	800,000	0.424	0.54	750,000	0.405	-	-	0.000	0.54	750,000	0.405
12.1.2) CTG, 12 GA, FRANGIBLE (AA86) ^(†)	0.89	2,243,170	2.006	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	3.132	-	-	0.457	-	-	0.424	-	-	0.405	-	-	0.000	-	-	0.405
Subtotal: Hardware - (AH100) SHOTGUN CARTRIDGES Cost	-	-	3.132	-	-	0.457	-	-	0.424	-	-	0.405	-	-	0.000	-	-	0.405
Hardware - (AH350) MATCH AMMO Cost																		
Recurring Cost																		
13.1.1) CTG, .22 CAL, BALL, LR, MATCH (A091)	0.13	2,215,000	0.288	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
13.1.2) CTG., 12 GA SHOTGUN (A002)	0.40	203,000	0.081	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
13.1.3) CTG., 12 GAUGE SHOTGUN, TRAP/SKEET PAS (A003)	0.40	203,000	0.081	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
13.1.4) CTG., 45 CAL, BALL, M1911, M (A483)	0.28	112,000	0.031	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems						
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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)
Subtotal: Recurring Cost	-	-	0.481	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - (AH350) MATCH AMMO Cost	-	-	0.481	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - (AH850) PRODUCT IMPROVEMENT Cost																		
Recurring Cost																		
14.1.1) PRODUCT IMPROVEMENT	-	-	1.055	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	1.055	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - (AH850) PRODUCT IMPROVEMENT Cost	-	-	1.055	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - (AH893) RENOVATION COMPONENTS Cost																		
Recurring Cost																		
15.1.1) RENOVATION COMPONENTS	-	-	2.239	-	-	0.125	-	-	0.459	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	2.239	-	-	0.125	-	-	0.459	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - (AH893) RENOVATION COMPONENTS Cost	-	-	2.239	-	-	0.125	-	-	0.459	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - (AH894) GAUGE REQUIREMENTS Cost																		
Recurring Cost																		
16.1.1) GAUGE REQUIREMENTS	-	-	0.076	-	-	0.022	-	-	0.020	-	-	0.023	-	-	0.000	-	-	0.023
Subtotal: Recurring Cost	-	-	0.076	-	-	0.022	-	-	0.020	-	-	0.023	-	-	0.000	-	-	0.023
Subtotal: Hardware - (AH894) GAUGE REQUIREMENTS Cost	-	-	0.076	-	-	0.022	-	-	0.020	-	-	0.023	-	-	0.000	-	-	0.023
Hardware - (AH895) NON-STANDARD Cost																		
Recurring Cost																		
17.1.1) NON-STANDARD	-	-	0.797	-	-	0.410	-	-	0.608	-	-	0.630	-	-	0.000	-	-	0.630
Subtotal: Recurring Cost	-	-	0.797	-	-	0.410	-	-	0.608	-	-	0.630	-	-	0.000	-	-	0.630
Subtotal: Hardware - (AH895) NON-STANDARD Cost	-	-	0.797	-	-	0.410	-	-	0.608	-	-	0.630	-	-	0.000	-	-	0.630
Support - (AH830) PRODUCTION ENGINEERING Cost																		
18.1) PRODUCTION ENGINEERING	-	-	15.854	-	-	2.067	-	-	2.499	-	-	2.637	-	-	0.000	-	-	2.637

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ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
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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)
Subtotal: Support - (AH830) PRODUCTION ENGINEERING Cost	-	-	15.854	-	-	2.067	-	-	2.499	-	-	2.637	-	-	0.000	-	-	2.637
Support - Prior Year Funding Cost																		
19.1) Prior Year Funding	-	-	2.833	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Support - Prior Year Funding Cost	-	-	2.833	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Gross/Weapon System Cost	-	-	255.609	-	-	28.509	-	-	30.472	-	-	30.770	-	-	0.000	-	-	30.770
Remarks:																		
[Hardware] [P5 /(AH100)HARDWARE]: Provides for all types of components, load and assemble complete rounds and conduct acceptance tests. Provides for Transportation Account Code (TAC) first destination of delivery of production items and Single Manager Conventional Ammunition (SMCA) related costs.																		
[Hardware] [P5 / (AH850) PRODUCT IMPROVEMENT]: Provides engineering services and related effort by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope.																		
[Hardware] [P5 / (AH894) GAUGE REQUIREMENTS]: Provides for procurement of gauges, auxiliary and test equipment and support costs necessary for ammunition metrology to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.																		
[Hardware] [P5 / (AH895) NON-STANDARD ITEMS]: Provides for non-standard items of ammunition. Includes training aids and initial procurements of required non type classified munition items including law enforcement ammunition for NCIS.																		
[Support Cost] AH830: SALP Production Engineering provides for production engineering services to support new acquisition and in production ammunition.																		
(†) 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: 1508N / 01 / 1				P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo				Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
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
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW)		2018	TBD / TBD	C / FFP	NSWC CRANE	Mar 2018	Jun 2018	200,000	0.32	Y		Oct 2017
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW)		2019	TBD / TBD	C / FFP	NSWC CRANE	Mar 2019	Jun 2019	100,000	0.33	Y		Oct 2017
3.1.2) CARTRIDGE .40 CALS&W (DWGX)		2018	TBD / TBD	C / FFP	NSWC CRANE	Mar 2018	Apr 2019	400,000	0.30	Y		Oct 2017
3.1.2) CARTRIDGE .40 CALS&W (DWGX)		2019	TBD / TBD	C / FFP	NSWC CRANE	Mar 2019	Apr 2020	200,000	0.31	Y		Oct 2017
4.1.2) CTG, .50 LINKED (A576)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2015	Jan 2018	1,091,000	1.89	Y		Oct 2011
4.1.2) CTG, .50 LINKED (A576)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	1,187,200	1.78	Y		Oct 2015
4.1.2) CTG, .50 LINKED (A576)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	Dec 2018	839,600	1.90	Y		Oct 2015
4.1.2) CTG, .50 LINKED (A576)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	600,000	1.98	Y		Oct 2017
4.1.2) CTG, .50 LINKED (A576)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Sep 2020	550,500	1.98	Y		Oct 2017
4.1.4) CTG, 50 CAL, LKD, BALL (A555)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Dec 2016	1,139,200	1.60	Y		Oct 2015
4.1.4) CTG, 50 CAL, LKD, BALL (A555)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	Aug 2018	1,305,400	1.71	Y		Oct 2015
4.1.4) CTG, 50 CAL, LKD, BALL (A555)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	1,477,586	1.74	Y		Oct 2017
4.1.4) CTG, 50 CAL, LKD, BALL (A555)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Sep 2020	805,000	1.77	Y		Oct 2017
4.1.5) CTG, 50 CAL, LKD & TRACER (A557) ^(†)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	Apr 2019	4,096,000	1.75	Y		Oct 2015
4.1.5) CTG, 50 CAL, LKD & TRACER (A557) ^(†)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	3,854,190	1.79	Y		Oct 2017
4.1.5) CTG, 50 CAL, LKD & TRACER (A557) ^(†)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Sep 2020	2,836,500	1.83	Y		Oct 2017
5.1.2) CTG, 5.56MM M855 (A059)		2017	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	Feb 2019	8,951,040	0.22	Y		Oct 2011
5.1.2) CTG, 5.56MM M855 (A059)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Apr 2019	8,472,000	0.24	Y		Oct 2017
5.1.2) CTG, 5.56MM M855 (A059)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Apr 2020	6,000,000	0.24	Y		Oct 2017
5.1.5) CTG, 5.56MM, SRTR AMMO (AB67)		2017	GDOTS CANADA / CANADA	SS / FFP	JMC ROCK ISLAND	Jul 2017	Jul 2018	237,600	1.33	Y		Oct 2016
5.1.5) CTG, 5.56MM, SRTR AMMO (AB67)		2018	GDOTS CANADA / CANADA	SS / FFP	JMC ROCK ISLAND	Mar 2018	Mar 2019	302,256	1.33	Y		Oct 2016
6.1.1) CTG, 7.62MM (A257)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2016	Jan 2018	462,000	0.44	Y		Oct 2013
6.1.1) CTG, 7.62MM (A257)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	May 2018	351,000	0.48	Y		Oct 2013
6.1.1) CTG, 7.62MM (A257)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Mar 2019	350,000	0.48	Y		Oct 2017

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo				Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
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
6.1.1) CTG, 7.62MM (A257)		2019	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2019	Oct 2019	350,000	0.48	Y		Oct 2017
6.1.2) CARTR, 7.62MM (AA11)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2016	Jan 2018	157,320	0.55	Y		Oct 2011
6.1.3) CTG, 7.62MM, SRТА, BALL, LINKED M973 (AB60)		2016	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2016	Mar 2018	601,530	1.91	Y		Oct 2013
6.1.3) CTG, 7.62MM, SRТА, BALL, LINKED M973 (AB60)		2017	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Jul 2017	Jul 2018	635,196	1.79	Y		Oct 2016
6.1.3) CTG, 7.62MM, SRТА, BALL, LINKED M973 (AB60)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Mar 2019	200,000	1.82	Y		Oct 2016
6.1.3) CTG, 7.62MM, SRТА, BALL, LINKED M973 (AB60)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Mar 2020	200,000	1.86	Y		Oct 2016
6.1.4) CTG, 7.62MM, LKD, BALL AND TR (A131)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	7,654,400	0.47	Y		Oct 2013
6.1.4) CTG, 7.62MM, LKD, BALL AND TR (A131)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	Feb 2019	6,882,352	0.51	Y		Oct 2013
6.1.4) CTG, 7.62MM, LKD, BALL AND TR (A131)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	6,500,000	0.54	Y		Oct 2017
6.1.4) CTG, 7.62MM, LKD, BALL AND TR (A131)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Sep 2020	6,000,000	0.54	Y		Oct 2017
6.1.5) CTG, 7.62MM, BALL, M80, LKD (A143)		2016	ATK LAKE CITY / LAKE CITY.	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	1,168,000	0.45	Y		Oct 2013
6.1.5) CTG, 7.62MM, BALL, M80, LKD (A143)		2017	ATK LAKE CITY / LAKE CITY.	C / FFP	JMC ROCK ISLAND	Jul 2017	Feb 2019	920,408	0.49	Y		Oct 2013
6.1.5) CTG, 7.62MM, BALL, M80, LKD (A143)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Oct 2019	900,000	0.52	Y		Oct 2017
6.1.5) CTG, 7.62MM, BALL, M80, LKD (A143)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Oct 2020	850,000	0.52	Y		Oct 2017
6.1.6) CTG, 7.62MM, LKD (A165)	✓	2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jan 2016	Jun 2017	1,086,000	0.45	Y		Oct 2011
6.1.6) CTG, 7.62MM, LKD (A165)		2015	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Jun 2016	2,885,420	0.45	Y		Oct 2011
6.1.6) CTG, 7.62MM, LKD (A165)		2016	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	3,468,000	0.46	Y		Oct 2011
6.1.6) CTG, 7.62MM, LKD (A165)	✓	2016	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	1,225,500	0.44	Y		Oct 2011
6.1.6) CTG, 7.62MM, LKD (A165)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	Dec 2018	2,000,000	0.48	Y		Oct 2011
6.1.6) CTG, 7.62MM, LKD (A165)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Oct 2019	2,500,000	0.48	Y		Oct 2017
6.1.6) CTG, 7.62MM, LKD (A165)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Oct 2020	2,000,000	0.48	Y		Oct 2017
7.1.1) CTG, .38 BLANK (A403)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Aug 2020	10,000	0.30	Y		Jun 2018
9.1.1) CTG, 9MM, BALL (A363)		2017	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Jul 2017	Jul 2018	9,000,000	0.16	Y		Oct 2015
9.1.1) CTG, 9MM, BALL (A363)		2018	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	11,800,000	0.16	Y		Oct 2015
9.1.1) CTG, 9MM, BALL (A363)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Sep 2020	9,000,000	0.17	Y		Oct 2015

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
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
9.1.2) CTG, 9MM, FRANGIBLE (AA16)		2016	OLIN CORP / ILLINOIS	C / FFP	NSWC CRANE	May 2016	Apr 2017	2,648,285	0.31	Y		Oct 2015
9.1.2) CTG, 9MM, FRANGIBLE (AA16)		2017	OLIN CORP / ILLINOIS	C / FFP	NSWC CRANE	Jul 2017	Aug 2018	2,500,000	0.31	Y		Oct 2015
9.1.2) CTG, 9MM, FRANGIBLE (AA16)		2018	OLIN CORP / ILLINOIS	C / FFP	NSWC CRANE	Mar 2018	Apr 2019	2,500,000	0.32	Y		Oct 2015
9.1.2) CTG, 9MM, FRANGIBLE (AA16)		2019	OLIN CORP / ILLINOIS	C / FFP	NSWC CRANE	Mar 2019	Apr 2020	2,500,000	0.32	Y		Oct 2015
9.1.3) (AB13) CTG, 9MM, FX, MARKING, BLUE (AB13)		2019	ULTIMATE TRAINING MUNITIONS / CANADA	SS / FFP	ACC-PICATINNY, NJ	Mar 2019	Oct 2020	250,000	0.63	Y		Sep 2015
9.1.4) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)		2017	ULTIMATE TRAINING MUNITIONS / CANADA	SS / FFP	ACC-PICATINNY, NJ	Jul 2017	Mar 2018	721,818	0.55	Y		Oct 2015
9.1.4) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)		2018	ULTIMATE TRAINING MUNITIONS / CANADA	SS / FFP	ACC-PICATINNY, NJ	Mar 2018	Oct 2018	800,000	0.63	Y		Oct 2017
9.1.4) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)		2019	ULTIMATE TRAINING MUNITIONS / CANADA	SS / FFP	ACC-PICATINNY, NJ	Mar 2019	Sep 2019	650,000	0.63	Y		Oct 2017
10.1.1) FUZE, DELAY M228 (G878)		2015	MARTIN ELECTRONICS, INC. / PERRY, FL	C / FFP	JMC ROCK ISLAND	Oct 2015	Nov 2017	1,900	12.78	Y		Jun 2011
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ^(†)		2016	RHEINMETALL / GERMANY	SS / FFP	NSWC CRANE	Aug 2016	Aug 2017	7,420	213.07	Y		Oct 2013
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ^(†)		2019	RHEINMETALL / GERMANY	SS / FFP	NSWC CRANE	Mar 2019	Jul 2019	15,250	336.10	N	Apr 2018	Oct 2018
10.1.3) GRENADE, HND, SMK, GREEN (G940)		2016	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP QUANTICO	Mar 2017	Feb 2019	5,000	32.00	Y		Oct 2013
10.1.4) GRENADE, HND, SMK, VIOLET (G955)		2019	PINE BLUFF ARSENAL / PINE BLUFF, AR	MIPR	NO PCO	Mar 2019	Sep 2020	10,000	58.10	N	Apr 2018	Oct 2018
10.1.5) GRENADE, HND, SMK, YELLOW (G945)		2016	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP QUANTICO	Oct 2015	Sep 2017	5,000	32.00	Y		Oct 2012
10.1.6) GRENADE, HND, SMK, WHITE (G982)		2016	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP, QUANTICO	May 2016	May 2017	5,000	32.00	Y		Oct 2012
10.1.6) GRENADE, HND, SMK, WHITE (G982)		2018	PINE BLUFF ARSENAL / PINE BLUFF, AR	MIPR	NO PCO	Mar 2018	Mar 2019	10,000	31.00	Y		Oct 2017
10.1.6) GRENADE, HND, SMK, WHITE (G982)		2019	PINE BLUFF ARSENAL / PINE BLUFF, AR	MIPR	NO PCO	Mar 2019	Mar 2020	14,000	31.00	Y		Oct 2017
10.1.7) GRENADE, HND, SMK, RED (G950)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	MIPR	NO PCO	Mar 2018	Apr 2020	10,352	52.16	Y		Jul 2016
10.1.8) GRENADE, HAND, FRAG, DELAY, M67 (G881)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Mar 2019	30,000	37.15	Y		Oct 2017

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
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
11.1.1) RIOT CNTRL, CS (K765)		2019	JMC ROCK ISLAND / ROCK ISLAND, IL	C / FFP	JMC ROCK ISLAND	Oct 2018	Jun 2020	10,000	0.47	Y		Oct 2014
12.1.1) CTG, 12 GA NO. 00 (A011)		2017	OLIN CORP / ILLINOIS.	C / FFP	JMC ROCK ISLAND	Oct 2016	Nov 2017	862,080	0.53	Y		Oct 2013
12.1.1) CTG, 12 GA NO. 00 (A011)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	800,000	0.53	Y		Oct 2017
12.1.1) CTG, 12 GA NO. 00 (A011)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Sep 2020	750,000	0.54	Y		Oct 2017
12.1.2) CTG, 12 GA, FRANGIBLE (AA86)		2016	REMINGTON ARMS CO / MADISON, NC	C / FFP	ACC-PICATINNY, NJ	Jun 2016	Aug 2017	998,400	0.65	Y		Dec 2015

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018															
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo										Item Number / Title [DODIC]: 1 / Integrated Warfare Systems															
Cost Elements <i>(Units in Millions, * = < 500)</i>							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				
4.1.5) CTG, 50 CAL, LKD & TRACER (A557)																																			
Prior Years Deliveries: 29736690																																			
	1	2017	NAVY		4.096	.000	4.096																										4.096		
	2	2018	NAVY		3.854	.000	3.854																										3.854		
	2	2019	NAVY		2.836	.000	2.836																										2.836		
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42)																																			
Prior Years Deliveries: 281																																			
	3	2016	NAVY		.007	.000	.007																										A -	-	.007
	3	2019	NAVY		.015	.000	.015																												.015
								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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo										Item Number / Title [DODIC]: 1 / Integrated Warfare Systems																											
Cost Elements (Units in Millions, * = < 500)							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																											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																	
4.1.5) CTG, 50 CAL, LKD & TRACER (A557)																																															
Prior Years Deliveries: 29736690																																															
	1	2017	NAVY	4.096	.000	4.096														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.096											
	2	2018	NAVY	3.854	.000	3.854																											A	-	-	-	-	-	-	-	-	-	-	-	-	-	3.854
	2	2019	NAVY	2.836	.000	2.836																																								2.836	
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42)																																															
Prior Years Deliveries: 281																																															
	3	2016	NAVY	.007	.000	.007	-	-	-	-	-	-	-	-	-	-	-	.002	.002	.002	.001														.000												
	3	2019	NAVY	.015	.000	.015																																								.015	
							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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LI 0335 - Small Arms & Lndg Party Ammo
Navy

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018													
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo										Item Number / Title [DODIC]: 1 / Integrated Warfare Systems													
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2021										Fiscal Year 2022													BALANCE			
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021										Calendar Year 2022																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP		
4.1.5) CTG, 50 CAL, LKD & TRACER (A557)																																	
Prior Years Deliveries: 29736690																																	
	1	2017	NAVY		4.096	4.096	.000																										.000
	2	2018	NAVY		3.854	3.854	.000																										.000
	2	2019	NAVY		2.836	1.000	1.836	1.000	.836																								.000
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42)																																	
Prior Years Deliveries: 281																																	
	3	2016	NAVY		.007	.007	.000																										.000
	3	2019	NAVY		.015	.015	.000	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: 1508N / 01 / 1				P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo				Item Number / Title [DODIC]: 1 / Integrated Warfare Systems			

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	ATK LAKE CITY - LAKE CITY		6,000	10,000,000	6	6	12	18	6	6	9	15
2	TBD - TBD		6,000	10,000,000	4	4	12	16	4	4	18	22
3	RHEINMETALL - GERMANY	80	70,000	1,640,000	2	3	12	15	2	3	4	7

"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-5, Cost Analysis: PB 2019 Navy												Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)							
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>				103.714		18.218		20.892		19.118		0.000		19.118					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P-1) <i>(\$ in Millions)</i>				103.714		18.218		20.892		19.118		0.000		19.118					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				103.714		18.218		20.892		19.118		0.000		19.118					
(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 - (AHNSW) SMCA Cost																			
Recurring Cost																			
1.1.1) (AHNSW) SMCA		-	-	0.735	-	-	0.252	-	-	1.108	-	-	0.976	-	-	0.000	-	-	0.976
Subtotal: Recurring Cost		-	-	0.735	-	-	0.252	-	-	1.108	-	-	0.976	-	-	0.000	-	-	0.976
Subtotal: Hardware - (AHNSW) SMCA Cost		-	-	0.735	-	-	0.252	-	-	1.108	-	-	0.976	-	-	0.000	-	-	0.976
Hardware - (AHNSW) GRENADES Cost																			
Recurring Cost																			
2.1.1) GRENADE,HAND,SMOKE GREEN (G940) ^(†)		-	-	0.000	-	-	0.000	54.11	14,992	0.811	-	-	0.000	-	-	0.000	-	-	0.000
2.1.2) GRENADE, 66MM SMOKE SCREENING (GG24)		235.00	2,000	0.470	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.3) FUZE, DELAY M228, F/M 68 HAND GRND (G878) ^(†)		9.30	23,660	0.220	8.84	36,624	0.324	9.64	20,360	0.196	-	-	0.000	-	-	0.000	-	-	0.000
2.1.4) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ^(†)		-	-	0.000	253.80	2,004	0.509	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.5) GRENADE, HAND, FRAG (G881) ^(†)		36.33	6,000	0.218	-	-	0.000	38.82	6,000	0.233	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)						
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)
2.1.6) GRENADE, HAND, SMOKE, YELLOW (G945) ^(†)	50.47	10,700	0.540	-	-	0.000	-	-	0.000	53.64	14,992	0.804	-	-	0.000	53.64	14,992	0.804
2.1.7) GRENADE, HAND, SMOKE, RED (G950)	41.77	35,000	1.462	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	2.910	-	-	0.833	-	-	1.240	-	-	0.804	-	-	0.000	-	-	0.804
Subtotal: Hardware - (AHNSW) GRENADES Cost	-	-	2.910	-	-	0.833	-	-	1.240	-	-	0.804	-	-	0.000	-	-	0.804
Hardware - (AHNSW) 9MM CARTRIDGES Cost																		
Recurring Cost																		
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14) ^(†)	0.56	2,145,425	1.212	0.57	1,116,000	0.636	0.63	920,634	0.580	0.63	1,873,015	1.180	-	-	0.000	0.63	1,873,015	1.180
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13) ^(†)	0.57	2,089,285	1.200	0.57	1,116,000	0.636	0.58	1,000,000	0.580	0.63	1,873,015	1.180	-	-	0.000	0.63	1,873,015	1.180
3.1.3) CTG, 9MM BALL (A363) ^(†)	0.17	51,224,732	8.771	0.18	7,990,000	1.438	0.18	6,000,000	1.080	0.17	6,352,941	1.080	-	-	0.000	0.17	6,352,941	1.080
3.1.4) CTG, 9MM REDUCED RICOCHETTE, LOW PEN (AA16) ^(†)	0.47	500,000	0.235	-	-	0.000	-	-	0.000	0.51	500,000	0.255	-	-	0.000	0.51	500,000	0.255
Subtotal: Recurring Cost	-	-	11.418	-	-	2.710	-	-	2.240	-	-	3.695	-	-	0.000	-	-	3.695
Subtotal: Hardware - (AHNSW) 9MM CARTRIDGES Cost	-	-	11.418	-	-	2.710	-	-	2.240	-	-	3.695	-	-	0.000	-	-	3.695
Hardware - (AHNSW) 7.62MM CARTRIDGES Cost																		
Recurring Cost																		
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37) ^(†)	0.87	6,497,042	5.642	1.98	2,268,600	4.492	2.17	1,200,000	2.604	2.24	1,200,200	2.688	-	-	0.000	2.24	1,200,200	2.688
4.1.2) CTG, 7.62MM, M993 AP, W/M62 Std Tracer (AA36) ^(†)	0.53	880,500	0.463	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.3) CTG, 7.62MM BLANK, LINKED (A111) ^(†)	0.48	7,916,215	3.823	0.39	3,248,000	1.267	0.39	2,372,800	0.925	0.39	4,000,000	1.560	-	-	0.000	0.39	4,000,000	1.560

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)					
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)
4.1.4) CTG, 7.62MM BALL LINKED (NO TRACER) (A143) ^(†)	-	-	0.000	0.50	343,200	0.172	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.5) CTG, 7.62MM LINKED 9:1 DIM TRACER F/MK 44 (A257) ^(†)	0.52	9,239,368	4.761	0.50	1,078,500	0.540	-	-	0.000	0.51	2,001,000	1.021	-	-	0.000	0.51	2,001,000	1.021
4.1.6) CTG, 7.62MM BALL (SOST) (AB50)	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131) ^(†)	0.59	39,240,425	23.183	0.54	2,701,600	1.459	0.54	3,700,000	1.998	0.54	2,564,814	1.385	-	-	0.000	0.54	2,564,814	1.385
Subtotal: Recurring Cost	-	-	37.873	-	-	7.930	-	-	5.527	-	-	6.654	-	-	0.000	-	-	6.654
Subtotal: Hardware - (AHNSW) 7.62MM CARTRIDGES Cost	-	-	37.873	-	-	7.930	-	-	5.527	-	-	6.654	-	-	0.000	-	-	6.654
Hardware - (AHNSW) 5.56MM CARTRIDGES Cost																		
Recurring Cost																		
5.1.2) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40) ^(†)	0.38	1,569,631	0.599	-	-	0.000	0.67	400,160	0.268	0.68	400,160	0.272	-	-	0.000	0.68	400,160	0.272
5.1.3) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49) ^(†)	0.34	1,616,760	0.554	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.4) CTG, 5.56MM CTG BALL B855 LKD F/SAW (A062) ^(†)	0.32	720,000	0.228	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.6) CTG, 5.56MM, LINKED (A075) ^(†)	0.38	4,800,800	1.810	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.7) CTG, 5.56MM BLANK (TRAINING ITEM) (A080) ^(†)	0.21	6,944,890	1.488	-	-	0.000	0.14	2,001,840	0.280	-	-	0.000	-	-	0.000	-	-	0.000
5.1.8) CTG, 5.56MM 77 GRAIN, MK 262 MOD 0/1, LONG (AA53) ^(†)	0.65	1,977,076	1.285	-	-	0.000	0.80	500,200	0.398	-	-	0.000	-	-	0.000	-	-	0.000
5.1.9) CTG, 5.56MM MARKING, RED (AA12)	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)						
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)
5.1.10) CTG, 9/5.56MM MARKING, BLUE (AA21)	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.11) CTG, 5.56MM LINKED (A064) ^(†)	0.53	5,448,000	2.874	0.32	2,360,000	0.755	0.33	1,000,000	0.330	-	-	0.000	-	-	0.000	-	-	0.000
5.1.12) CTG, 5.56MM SHORT RANGE TRAINING (AB67) ^(†)	-	-	0.000	1.21	185,400	0.224	1.36	403,200	0.548	1.39	388,489	0.540	-	-	0.000	1.39	388,489	0.540
Subtotal: Recurring Cost	-	-	8.840	-	-	0.979	-	-	1.824	-	-	0.812	-	-	0.000	-	-	0.812
Subtotal: Hardware - (AHNSW) 5.56MM CARTRIDGES Cost	-	-	8.840	-	-	0.979	-	-	1.824	-	-	0.812	-	-	0.000	-	-	0.812
Hardware - (AHNSW) .50 CAL CARTRIDGES Cost																		
Recurring Cost																		
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64) ^(†)	4.10	1,400,000	5.744	4.25	200,000	0.850	4.33	400,000	1.732	5.20	400,000	2.080	-	-	0.000	5.20	400,000	2.080
6.1.2) CTG, CAL .50 LINKED BALL (NO TRACER) (A555) ^(†)	2.13	2,515,718	5.363	-	-	0.000	1.74	462,068	0.804	-	-	0.000	-	-	0.000	-	-	0.000
6.1.3) CTG, CAL .50 LINKED, BALL/ TRACER (A557) ^(†)	1.75	2,118,894	3.706	-	-	0.000	2.03	986,592	1.998	1.83	220,765	0.404	-	-	0.000	1.83	220,765	0.404
6.1.4) CTG, CAL .50 APL MK 211 MIULTI PURPOSE (A606) ^(†)	14.55	50,160	0.730	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576) ^(†)	1.94	7,217,686	13.990	1.89	298,200	0.564	2.07	1,151,050	2.378	1.98	1,004,545	1.989	-	-	0.000	1.98	1,004,545	1.989
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598) ^(†)	1.20	4,481,750	5.395	1.26	2,658,800	3.350	1.34	900,000	1.206	1.34	600,000	0.804	-	-	0.000	1.34	600,000	0.804
Subtotal: Recurring Cost	-	-	34.928	-	-	4.764	-	-	8.118	-	-	5.277	-	-	0.000	-	-	5.277
Subtotal: Hardware - (AHNSW) .50 CAL CARTRIDGES Cost	-	-	34.928	-	-	4.764	-	-	8.118	-	-	5.277	-	-	0.000	-	-	5.277
Hardware - (AHNSW) SHOTGUN CARTRIDGES Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)						
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)
7.1.1) CTG, 12 GAUGE SHOTGUN 00 BUCK (A011)	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - (AHNSW) SHOTGUN CARTRIDGES Cost	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - (AHNSW) MATCH AMMO Cost																		
Recurring Cost																		
8.1.1) CTG, CAL .300 MATCH (A191) ^(†)	1.22	864,363	1.054	-	-	0.000	1.31	100,800	0.132	-	-	0.000	-	-	0.000	-	-	0.000
8.1.2) CTG, CAL 45 MATCH (A483) ^(†)	-	-	0.000	-	-	0.000	0.34	200,000	0.068	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	1.054	-	-	0.000	-	-	0.200	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - (AHNSW) MATCH AMMO Cost	-	-	1.054	-	-	0.000	-	-	0.200	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - (AHNSW) TRANSPORTATION ACCOUNT CODE (TAC) Cost																		
Recurring Cost																		
9.1.1) NSW TRANSPORTATION ACCOUNT CODE (TAC)	-	-	0.970	-	-	0.400	-	-	0.000	-	-	0.250	-	-	0.000	-	-	0.250
Subtotal: Recurring Cost	-	-	0.970	-	-	0.400	-	-	0.000	-	-	0.250	-	-	0.000	-	-	0.250
Subtotal: Hardware - (AHNSW) TRANSPORTATION ACCOUNT CODE (TAC) Cost	-	-	0.970	-	-	0.400	-	-	0.000	-	-	0.250	-	-	0.000	-	-	0.250
Support - (NS830) PRODUCTION ENGINEERING Cost																		
10.1) Production Engineering	-	-	4.985	-	-	0.350	-	-	0.635	-	-	0.650	-	-	0.000	-	-	0.650
Subtotal: Support - (NS830) PRODUCTION ENGINEERING Cost	-	-	4.985	-	-	0.350	-	-	0.635	-	-	0.650	-	-	0.000	-	-	0.650
Gross/Weapon System Cost	-	-	103.714	-	-	18.218	-	-	20.892	-	-	19.118	-	-	0.000	-	-	19.118
(†) 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: 1508N / 01 / 1				P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo					Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)			
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
2.1.1) GRENADE,HAND,SMOKE GREEN (G940)		2018	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / TBD	JMC ROCK ISLAND	Apr 2018	Apr 2020	14,992	54.11	Y		Dec 2017
2.1.3) FUZE, DELAY M228, F/M 68 HAND GRND (G878)		2015	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / TEXARKANA, TX	C / FFP	JMC ROCK ISLAND	Mar 2015	Sep 2016	11,660	12.78	Y		Jun 2011
2.1.3) FUZE, DELAY M228, F/M 68 HAND GRND (G878)		2017	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / TEXARKANA, TX	C / FFP	JMC ROCK ISLAND	Oct 2016	Apr 2018	36,624	8.84	N	Aug 2015	Jun 2011
2.1.3) FUZE, DELAY M228, F/M 68 HAND GRND (G878)		2018	TBD / TBD	C / TBD	JMC ROCK ISLAND	Feb 2018	Aug 2019	20,360	9.64	Y		Dec 2017
2.1.4) GRENADE, VEHICLE LAUNCHED IR/S (GG42)		2017	AMERICAN RHEINMETALL MUNITIONS / STAFFORD, VA	C / TBD	NSWC CRANE	Apr 2017	Apr 2018	2,004	253.80	N	Mar 2016	Apr 2016
2.1.5) GRENADE, HAND, FRAG (G881)		2013	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / TEXARKANA, TX	C / FFP	JMC ROCK ISLAND	Jun 2013	Dec 2014	6,000	36.41	Y		Oct 2012
2.1.5) GRENADE, HAND, FRAG (G881)		2018	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / TEXARKANA, TX	C / TBD	JMC ROCK ISLAND	Jun 2018	Dec 2019	6,000	38.82	Y		Dec 2017
2.1.6) GRENADE, HAND, SMOKE, YELLOW (G945)		2014	RHEINMETALL / GERMANY	SS / FFP	JMC ROCK ISLAND	Mar 2014	Sep 2015	10,700	50.47	Y		Oct 2012
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2015	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2016	1,089,285	0.56	Y		Oct 2012
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2016	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	JMC ROCK ISLAND	Mar 2016	Mar 2017	1,056,140	0.57	N	Aug 2015	Oct 2015
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2017	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	JMC ROCK ISLAND	Oct 2017	Oct 2018	1,116,000	0.57	Y		Oct 2016
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2018	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	JMC ROCK ISLAND	Jan 2018	Jan 2019	920,634	0.63	Y		Dec 2017
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2019	GENERAL DYNAMICS / MONTREAL, CN	C / TBD	** NO PCO **	Oct 2018	Oct 2019	1,873,015	0.63	N	Aug 2018	
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13)		2015	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2016	1,089,285	0.56	Y		Oct 2012
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13)		2016	CANADIAN COMMERCIAL CORPORATION / OTTAWA, CANADA	C / FFP	JMC ROCK ISLAND	Mar 2016	Mar 2016	1,000,000	0.59	N	Aug 2015	Oct 2015
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13)		2017	GENERAL DYNAMICS / MONTREAL, CANADA	C / FFP	JMC ROCK ISLAND	Oct 2016	Oct 2016	1,116,000	0.57	N	Aug 2015	Oct 2016
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13)		2018	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	JMC ROCK ISLAND	Jan 2018	Jan 2019	1,000,000	0.58	Y		Dec 2017
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13)		2019	GENERAL DYNAMICS / MONTREAL, CN	C / TBD	JMC ROCK ISLAND	Oct 2018	Oct 2019	1,873,015	0.63	N		
3.1.3) CTG, 9MM BALL (A363)		2014	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2014	Sep 2014	7,875,000	0.17	Y		Oct 2013
3.1.3) CTG, 9MM BALL (A363)	✓	2014	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2014	Sep 2014	14,094,118	0.17	Y		Oct 2013
3.1.3) CTG, 9MM BALL (A363)		2015	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2015	Sep 2015	9,600,000	0.15	Y		Oct 2013

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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
3.1.3) CTG, 9MM BALL (A363)		2016	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2016	4,217,647	0.17	N	Aug 2015	Oct 2015
3.1.3) CTG, 9MM BALL (A363)	✓	2016	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2016	2,347,058	0.17	N	Aug 2015	Oct 2015
3.1.3) CTG, 9MM BALL (A363)		2017	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2017	Sep 2017	7,990,000	0.18	Y		Oct 2016
3.1.3) CTG, 9MM BALL (A363)		2018	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2018	6,000,000	0.18	Y		Oct 2017
3.1.4) CTG, 9MM REDUCED RICOCHETTE, LOW PEN (AA16)		2015	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2015	Jul 2016	500,000	0.47	Y		Mar 2012
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2014	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Jun 2014	Jun 2015	3,000,000	0.85	Y		Oct 2013
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2015	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	1,000,000	0.87	Y		Oct 2013
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2016	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	2,497,042	0.89	Y		Oct 2015
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2017	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2017	Oct 2017	2,268,600	1.98	Y		Oct 2016
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2018	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2018	Oct 2018	1,200,000	2.17	Y		Dec 2017
4.1.2) CTG, 7.62MM, M993 AP, W/ M62 Std Tracer (AA36)	✓	2014	ALLIANT TECH / ATK	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	180,000	2.57	Y		Mar 2012
4.1.2) CTG, 7.62MM, M993 AP, W/ M62 Std Tracer (AA36)		2016	ALLIANT TECH / ATK	C / FFP	JMC ROCK ISLAND	Apr 2016	Nov 2016	700,500	0.00	Y		Mar 2013
4.1.3) CTG, 7.62MM BLANK, LINKED (A111)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	SS / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	1,600,000	0.39	Y		Mar 2013
4.1.3) CTG, 7.62MM BLANK, LINKED (A111)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	SS / FFP	JMC ROCK ISLAND	Apr 2016	Nov 2016	3,116,215	0.39	Y		Mar 2013
4.1.3) CTG, 7.62MM BLANK, LINKED (A111)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	SS / FFP	JMC ROCK ISLAND	Apr 2017	Nov 2017	3,248,000	0.39	Y		Mar 2017
4.1.3) CTG, 7.62MM BLANK, LINKED (A111)		2018	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	SS / FFP	JMC ROCK ISLAND	Apr 2018	Nov 2018	2,372,800	0.39	Y		Mar 2018
4.1.4) CTG, 7.62MM BALL LINKED (NO TRACER) (A143)		2017	TBD / TBD	C / TBD	JMC ROCK ISLAND	Dec 2016	Dec 2017	343,200	0.50	N	Aug 2015	Apr 2016
4.1.5) CTG, 7.62MM LINKED 9:1 DIM TRACER F/MK 44 (A257)		2013	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	4,135,555	0.45	Y		Oct 2012
4.1.5) CTG, 7.62MM LINKED 9:1 DIM TRACER F/MK 44 (A257)	✓	2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	150,000	0.89	Y		Oct 2013
4.1.5) CTG, 7.62MM LINKED 9:1 DIM TRACER F/MK 44 (A257)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	3,326,086	0.46	Y		Oct 2013
4.1.5) CTG, 7.62MM LINKED 9:1 DIM TRACER F/MK 44 (A257)	✓	2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2017	522,727	0.44	Y		Oct 2013

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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
4.1.5) CTG, 7.62MM LINKED 9:1 DIM TRACER F/MK 44 (A257)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / TBD	JMC ROCK ISLAND	Mar 2017	Oct 2017	1,078,500	0.50	N	Aug 2015	Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	5,094,000	0.51	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)	✓	2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Jun 2014	Jan 2015	964,570	0.93	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	6,173,469	0.49	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)	✓	2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	1,020,408	0.49	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	6,095,744	0.47	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)	✓	2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Oct 2015	May 2016	587,234	0.47	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Oct 2016	May 2017	2,701,600	0.54	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2018	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2018	Oct 2018	3,700,000	0.54	Y		Oct 2017
5.1.2) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40)		2014	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Mar 2014	Feb 2015	1,108,000	0.37	Y		Mar 2011
5.1.2) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40)		2015	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Mar 2015	Feb 2016	461,631	0.41	Y		Mar 2011
5.1.2) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40)		2018	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Jan 2018	Dec 2018	400,160	0.67	Y		Mar 2011
5.1.3) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49)		2012	ATK LAKE CITY / LAKE CITY	C / FFP	NSWC CRANE	Jun 2013	Dec 2014	700,000	0.50	Y		Oct 2012
5.1.3) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	NSWC CRANE	Mar 2014	Sep 2015	246,000	0.83	Y		Oct 2012
5.1.3) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	NSWC CRANE	Mar 2016	Sep 2017	670,760	0.00	Y		Oct 2013
5.1.4) CTG, 5.56MM CTG BALL B855 LKD F/SAW (A062)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Aug 2014	320,000	0.35	Y		Oct 2013
5.1.4) CTG, 5.56MM CTG BALL B855 LKD F/SAW (A062)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Aug 2015	400,000	0.29	Y		Oct 2013
5.1.6) CTG, 5.56MM, LINKED (A075)		2013	ATK Lake City Army Ammunition Plant / Lake City	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	3,300,000	0.45	Y		Oct 2012
5.1.6) CTG, 5.56MM, LINKED (A075)		2016	ATK Lake City Army Ammunition Plant / Lake City	C / FFP	JMC ROCK ISLAND	Oct 2015	May 2016	1,500,800	0.22	Y		Oct 2013
5.1.7) CTG, 5.56MM BLANK (TRAINING ITEM) (A080)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	3,762,000	0.15	Y		Dec 2013

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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
5.1.7) CTG, 5.56MM BLANK (TRAINING ITEM) (A080)		2018	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2018	Oct 2018	2,001,840	0.14	Y		Dec 2017
5.1.8) CTG, 5.56MM 77 GRAIN, MK 262 MOD 0/1, LONG (AA53)		2014	BLACK HILLS AMMUNITION / RAPID CITY, SD	SS / FFP	NSWC CRANE	Jul 2014	Aug 2015	1,403,076	0.65	Y		Oct 2012
5.1.8) CTG, 5.56MM 77 GRAIN, MK 262 MOD 0/1, LONG (AA53)	✓	2014	BLACK HILLS AMMUNITION / RAPID CITY, SD	SS / FFP	NSWC CRANE	Jul 2014	Aug 2015	574,000	0.65	Y		Oct 2012
5.1.8) CTG, 5.56MM 77 GRAIN, MK 262 MOD 0/1, LONG (AA53)		2018	BLACK HILLS AMMUNITION / RAPID CITY, SD	SS / FFP	NSWC CRANE	Jan 2018	Jul 2019	500,200	0.80	Y		Oct 2012
5.1.11) CTG, 5.56MM LINKED (A064) ^(t)		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2014	Aug 2014	3,000,000	0.54	Y		Oct 2011
5.1.11) CTG, 5.56MM LINKED (A064)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2015	Aug 2015	2,240,000	0.53	Y		Oct 2011
5.1.11) CTG, 5.56MM LINKED (A064)	✓	2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Dec 2015	Jul 2016	208,000	0.32	Y		Oct 2011
5.1.11) CTG, 5.56MM LINKED (A064)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Dec 2016	Jul 2017	2,360,000	0.32	Y		Oct 2011
5.1.12) CTG, 5.56MM SHORT RANGE TRAINING (AB67)		2017	TBD / tbd	C / TBD	** NO PCO **	Oct 2016	Apr 2018	185,400	1.21	N		
5.1.12) CTG, 5.56MM SHORT RANGE TRAINING (AB67)		2018	TBD / tbd	C / TBD	ACC-PICATINNY, NJ	Mar 2018	Sep 2019	403,200	1.36	Y		Dec 2017
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)		2014	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Mar 2014	Mar 2015	200,000	4.00	Y		Mar 2013
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)		2015	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Oct 2014	Oct 2015	600,000	4.08	Y		Mar 2013
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)		2016	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Mar 2016	Mar 2017	600,000	4.16	Y		Mar 2013
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)		2017	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Mar 2017	Mar 2018	200,000	4.25	Y		Mar 2013
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)		2018	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Mar 2018	Mar 2019	400,000	4.33	Y		Mar 2018
6.1.2) CTG, CAL .50 LINKED BALL (NO TRACER) (A555)		2013	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	853,218	2.33	Y		Oct 2012
6.1.2) CTG, CAL .50 LINKED BALL (NO TRACER) (A555)		2016	ALLIANT TECH DBA (LCAAP) - FY2016 / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	1,012,500	1.60	Y		Oct 2013
6.1.2) CTG, CAL .50 LINKED BALL (NO TRACER) (A555)		2018	ALLIANT TECH DBA (LCAAP) - FY2016 / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2018	Oct 2018	462,068	1.74	Y		Dec 2017
6.1.3) CTG, CAL .50 LINKED, BALL/TRACER (A557)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Mar 2015	1,215,846	1.83	Y		Oct 2011
6.1.3) CTG, CAL .50 LINKED, BALL/TRACER (A557)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Mar 2017	903,048	1.64	Y		Oct 2013

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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
6.1.4) CTG, CAL .50 APL MK 211 MIULTI PURPOSE (A606)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2016	50,160	14.55	Y		Oct 2013
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)		2013	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2013	Jun 2014	1,462,564	1.95	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Mar 2015	2,810,660	1.97	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)	✓	2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Mar 2015	1,107,910	1.97	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2016	1,089,418	1.89	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)	✓	2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2016	264,550	1.89	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Oct 2015	Oct 2016	214,606	1.78	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)	✓	2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Mar 2017	267,978	1.78	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Oct 2016	Oct 2017	298,200	1.89	N	Aug 2015	Oct 2011
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)		2018	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2018	Mar 2019	755,050	1.98	Y		Dec 2017
6.1.5) CTG, CAL .50 LINKED, M8 API/M20 API-T (A576)	✓	2018	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2018	Mar 2019	396,000	2.23	Y		Dec 2017
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2013	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	1,182,352	1.19	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	1,378,000	1.15	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	812,121	1.32	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	1,109,277	1.20	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Oct 2016	May 2017	2,658,800	1.26	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2018	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2018	Oct 2018	900,000	1.34	Y		Oct 2017
8.1.1) CTG, CAL .300 MATCH (A191)		2014	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	240,000	1.25	Y		Mar 2013
8.1.1) CTG, CAL .300 MATCH (A191)	✓	2014	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	480,000	1.25	Y		Mar 2013
8.1.1) CTG, CAL .300 MATCH (A191)		2016	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Dec 2015	Jul 2016	144,363	1.07	Y		Mar 2013

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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
8.1.1) CTG, CAL .300 MATCH (A191)	✓	2018	FEDERAL CARTRIDGE. / ANOKA, MINNESOTA	C / FFP	JMC ROCK ISLAND	Jan 2018	Jan 2019	100,800	1.31	Y		Dec 2017
8.1.2) CTG, CAL 45 MATCH (A483)		2018	UNKNOWN / UNKNOWN	C / TBD	JMC ROCK ISLAND	Apr 2018	Oct 2019	200,000	0.34	Y		Oct 2017

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018											
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Cost Elements <i>(Units in Millions, * = < 500)</i>							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
5.1.11) CTG, 5.56MM LINKED (A064)																															
	1	2014	NAVY		3.000	.000	3.000														A -	-	-	-	-	3.000		.000			
							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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Cost Elements <i>(Units in Millions, * = < 500)</i>							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		
5.1.11) CTG, 5.56MM LINKED (A064)																																
	1	2014	NAVY		3.000	3.000	.000																									.000
							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													
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Cost Elements <i>(Units in Millions, * = < 500)</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													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
5.1.11) CTG, 5.56MM LINKED (A064)																																
	1	2014	NAVY		3.000	3.000	.000																									.000
							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													
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Cost Elements <i>(Units in Millions, * = < 500)</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		
5.1.11) CTG, 5.56MM LINKED (A064)																																
	1	2014	NAVY		3.000	3.000	.000																									.000
							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: 1508N / 01 / 1					P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo				Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)			
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	ALLIANT TECH DBA (LCAAP) - INDEPENDENCE, MO		11,500	39,300	6	6	5	11	6	6	7	13

"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: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition					
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>)	85.753	10.928	10.260	10.931	1.807	12.738	10.751	10.975	11.187	11.417	-	164.009
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	85.753	10.928	10.260	10.931	1.807	12.738	10.751	10.975	11.187	11.417	-	164.009
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	85.753	10.928	10.260	10.931	1.807	12.738	10.751	10.975	11.187	11.417	-	164.009
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
The FY 2019 funding request was reduced by \$0.079 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.												
Pyrotechnics and demolition materials consists of smoke and flare signals for safety of life, simulators, remote and time delay firing devices, safe and arming devices, demolition charges, blasting caps, detonating cord, time fuze, cable cutters, Improvised Explosive Device (IED) disrupters, cartridge actuated devices, shape charges, and shock test charges. These materials are used by all Navy platforms, and Navy Mobile Construction Battalions, mobile diving and salvage units, cargo handling and port groups, naval security groups, fleet composite operational readiness groups, and Explosive Ordnance Disposal groups, mobile units, detachments, and teams.												
Program procures pyrotechnics and demolition materials for all active naval vessels, construction battalions, mobile diving and salvage units, cargo handling and port groups, naval security groups, and explosive ordnance disposal groups/mobile units/detachments/teams. Pyrotechnics are used for training, combat exercises, submarine rescue and personnel search, and rescue operations. These items consist of illumination, signaling, identification, and location devices using flares or smoke as the primary signaling agent. Demolitions consist of explosive devices and accessories and are required for fleet units to perform training functions and operations/requirements. Fleet requirements are based upon CNO approved allowance lists or for special needs on a case by case basis and worldwide fleet expenditure. This program also provides materials to support the ship shock test program.												
Naval Special Warfare pyrotechnics and demolition materials consists of smoke and flare signals for safety of life, combat effects simulators, remote and time delay firing devices, safe and arming devices, blasting machines, demolition charges, blasting caps, detonating cord, time fuse, cable cutters, cartridge actuated devices, shape charges, and shock tube type detonators. The demolition materials are used by the Naval Special Warfare Center for initial demolition training and qualification, and by SEAL platoons for constructing breaching charges, construction of obstacles or barriers, clearance of obstacles or barriers, cable cutting, coral and channel clearance, material and equipment destruction, diversions, combat effects simulation charges, improvised incendiary charges, and defensive anti-vehicle and anti-personnel charges. Pyrotechnics are used by Naval Special Warfare for emergency or distress signaling, combat effects simulation, target marking, de-confliction, escalation of force warning, and distraction.												
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023		
Navy	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	10.834	10.170	10.838	1.807	12.645	10.668	10.887	11.096	11.325		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition					P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A				Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.094	0.090	0.093	-	0.093	0.083	0.088	0.091	0.092
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.928	10.260	10.931	1.807	12.738	10.751	10.975	11.187	11.417

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition				
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 / Integrated Warfare Systems	P-5a			- / 79.554	- / 10.111	- / 8.637	- / 10.085	- / 0.000	- / 10.085
P-5	2 / Naval Special Warfare	P-5a			- / 6.199	- / 0.817	- / 1.623	- / 0.846	- / 1.807	- / 2.653
P-40	Total Gross/Weapon System Cost				- / 85.753	- / 10.928	- / 10.260	- / 10.931	- / 1.807	- / 12.738
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2019 baseline funding procures pyrotechnics to support surface, air, ground, and underwater Navy requirements for training, combat exercises, submarine rescue, and personnel search and rescue operations, and demolition consisting of explosive devices and accessories to support fleet units performing training and operational exercises. Baseline funding also provides Product Improvement Programs to resolve obsolescence issues in demolition items, emergency signaling devices and submarine signals. Baseline program funds Renovation of radio firing devices, remote timing device battery replacement and supply components for demolition items, and Production Engineering and Gauge requirements for pyrotechnics and demolition materials. FY 2019 baseline funding procures demolition devices and accessories to support Naval Special Warfare (NSW) requirements for initial qualification, pre-deployment, and sustainment training, combat exercises, and testing. Baseline program funds are also necessary for production engineering as required by DoD and Navy safety and acquisition regulations. OCO: FY 2019 Pyrotechnics and Demolition Overseas Contingency Operations (OCO) funding is required to replenish high-use service common demolition munitions expended by Naval Special Warfare (NSW) in pre-deployment training and combat operations in theater (Operation Inherent Resolve - OIR). A significant portion of the NSW inventory in PyroDemo was depleted in order to meet urgent combat operation requirements in theater. These munitions (demolition charges, detonating cord, timed fuzes) deliver a crucial combat capability that allows US Navy SEAL Teams to prosecute targets with the speed and power required for success while deployed in combat theaters/ other areas of operations.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems								
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>				79.554			10.111			8.637			10.085			0.000			10.085		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				79.554			10.111			8.637			10.085			0.000			10.085		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				79.554			10.111			8.637			10.085			0.000			10.085		
(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 - AJ100 HARDWARE Cost																					
Recurring Cost																					
1.1.1) TRANSPORTATION ACCOUNT CODE (N97)		-	-	0.175	-	-	0.040	-	-	0.015	-	-	0.010	-	-	0.000	-	-	0.010		
1.1.2) TRANSPORTATION ACCOUNT CODE (N96)		-	-	0.869	-	-	0.146	-	-	0.170	-	-	0.176	-	-	0.000	-	-	0.176		
1.1.3) TRANSPORTATION ACCOUNT CODE (N95)		-	-	0.077	-	-	0.014	-	-	0.014	-	-	0.014	-	-	0.000	-	-	0.014		
Subtotal: Recurring Cost		-	-	1.121	-	-	0.200	-	-	0.199	-	-	0.200	-	-	0.000	-	-	0.200		
Subtotal: Hardware - AJ100 HARDWARE Cost		-	-	1.121	-	-	0.200	-	-	0.199	-	-	0.200	-	-	0.000	-	-	0.200		
Hardware - AJ100 PE/QA SMCA Cost																					
Recurring Cost																					
2.1.1) PE/QA SMCA		-	-	3.645	-	-	0.059	-	-	0.355	-	-	0.363	-	-	0.000	-	-	0.363		
Subtotal: Recurring Cost		-	-	3.645	-	-	0.059	-	-	0.355	-	-	0.363	-	-	0.000	-	-	0.363		
Subtotal: Hardware - AJ100 PE/QA SMCA Cost		-	-	3.645	-	-	0.059	-	-	0.355	-	-	0.363	-	-	0.000	-	-	0.363		
Hardware - AJ100 CUTTERS & CARTRIDGES Cost																					
Recurring Cost																					

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
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)
3.1.6) CTG, 50 CAL BLANK, ELEC, MK20 (SS01) ^(†)	184.17	13,390	2.466	175.48	5,076	0.891	182.91	2,750	0.503	182.91	6,675	1.221	-	-	0.000	182.91	6,675	1.221
3.1.7) CUTTER, MK33, NON- ELECTRIC IN (SS43) ^(†)	997.27	1,100	1.097	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.1.8) CARTRIDGE, IMPULSE, MK 192 MOD 0 (MD54) ^(†)	-	-	0.000	-	-	0.000	148.57	3,574	0.531	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	3.563	-	-	0.891	-	-	1.034	-	-	1.221	-	-	0.000	-	-	1.221
Subtotal: Hardware - AJ100 CUTTERS & CARTRIDGES Cost	-	-	3.563	-	-	0.891	-	-	1.034	-	-	1.221	-	-	0.000	-	-	1.221
Hardware - AJ100 DET CORDS, CAPS & FUZES Cost																		
Recurring Cost																		
4.1.1) CAP, BLASTING, ELEC, INERT (MP16) ^(†)	21.70	15,160	0.329	28.74	11,960	0.343	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.2) CAP, BLASTING, ELECTRIC MK 18 MOD 0 (DWHH)	41.03	112,950	4.634	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.3) SQUIB, ELECTRIC, MK 20 MOD 2 (MP40) ^(†)	70.05	29,250	2.049	68.26	23,184	1.583	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.4) CAP, BLASTIN, NON-ELEC, INERT (M097)	25.43	48,400	1.231	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.5) CORD, DETONATING, PRIMACORD (M456) ^(†)	0.68	2,855,000	1.942	-	-	0.000	0.86	900,000	0.774	-	-	0.000	-	-	0.000	-	-	0.000
4.1.6) DETONATOR, DEL, 17MS, MK 158 (DWEL)	34.50	6,840	0.236	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.8) DETONATOR, NON-ELEC, MK 121 (MP17)	254.31	8,002	2.035	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.9) EOD REFILL KIT-LMNS (DWGJ)	838.33	600	0.503	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems						
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)
4.1.10) FUZE, BLASTING, TIME (M670)	0.49	1,356,000	0.665	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.11) IGNITIER, TIME BLASTING FUZE (MN08) ^(†)	5.35	43,956	0.235	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	13.859	-	-	1.926	-	-	0.774	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - AJ100 DET CORDS, CAPS & FUZES Cost	-	-	13.859	-	-	1.926	-	-	0.774	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - MINE CHARGES & CHARGE CUTTERS Cost																		
Recurring Cost																		
5.1.1) CHG KIT, DML, MK 75 (MW84) ^(†)	1,649.37	2,159	3.561	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023) ^(†)	23.12	94,790	2.192	27.30	20,580	0.562	-	-	0.000	30.85	23,500	0.725	-	-	0.000	30.85	23,500	0.725
5.1.3) CHG, DML, XPL ROLL, 11FT (M985) ^(†)	96.14	4,140	0.398	53.82	6,754	0.364	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.4) CHG, DML, XPL ROLL, 25 FT (M981) ^(†)	47.39	6,120	0.290	22.02	14,375	0.317	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.5) CHG, DML, XPL ROLL, 38 FT, 14 (M980) ^(†)	-	-	0.000	14.27	13,680	0.195	31.73	4,975	0.158	-	-	0.000	-	-	0.000	-	-	0.000
5.1.6) CUTTER, POWDER ACTUATED MK 23/1 (MN70)	333.33	1,842	0.614	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02) ^(†)	463.39	5,026	2.329	-	-	0.000	465.25	2,122	0.987	-	-	0.000	-	-	0.000	-	-	0.000
5.1.8) CUTTER, POWDER ACTUATED MK 24/1 (MN71)	992.00	1,250	1.240	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.9) CHG, DEML, MK149 MOD0 LOW HAZ FLEX LIN SHP (MM54) ^(†)	61.88	5,430	0.336	88.57	5,600	0.496	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
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)
5.1.10) Chg, Demo, Mk 145 Low Hazard Flex (MM53)	63.50	20,440	1.298	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.11) CHARGE, DEMO SHEET, FLEXIBLE, 0.043 THICK (M994) ^(†)	19.35	5,168	0.100	8.43	38,456	0.324	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.13) CHG, DEML, MK144 MOD 0 LOW HAZ FLEX (MM52)	45.48	16,800	0.764	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	13.122	-	-	2.258	-	-	1.145	-	-	0.725	-	-	0.000	-	-	0.725
Subtotal: Hardware - MINE CHARGES & CHARGE CUTTERS Cost	-	-	13.122	-	-	2.258	-	-	1.145	-	-	0.725	-	-	0.000	-	-	0.725
Hardware - AJ100 N97 UNDERSEA WARFARE Cost																		
Recurring Cost																		
6.1.1) SIG, SMK ILLUM, MAR, MK 141, GREEN (LA26) ^(†)	1,995.50	1,110	2.215	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.2) SIG, SMK ILLUM, MAR, MK 144/118, YELLOW (LA27) ^(†)	5,162.95	718	3.707	-	-	0.000	-	-	0.000	2,672.00	252	0.673	-	-	0.000	2,672.00	252	0.673
6.1.3) MARKER, LOCATION, SUB, MK 140, RED (LA28) ^(†)	6,742.51	167	1.126	2,626.26	165	0.433	2,677.17	254	0.680	-	-	0.000	-	-	0.000	-	-	0.000
6.1.4) CTG, IMPULSE, MK148 (M663) ^(†)	4,360.00	100	0.436	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.5) EXPLOSIVE BOLT CARTRIDGE (MC91) ^(†)	-	-	0.000	3,317.05	150	0.498	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.6) SWITCH, SQUIB ACTUATED, MK112 (M853) ^(†)	803.28	122	0.098	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.7) CTG, IMPULSE, MK 235 (MW97) ^(†)	-	-	0.000	-	-	0.000	4,439.32	112	0.497	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	7.582	-	-	0.931	-	-	1.177	-	-	0.673	-	-	0.000	-	-	0.673
Subtotal: Hardware - AJ100 N97 UNDERSEA WARFARE Cost	-	-	7.582	-	-	0.931	-	-	1.177	-	-	0.673	-	-	0.000	-	-	0.673
Hardware - AJ100 SHOCK TEST CHARGES Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
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)
Recurring Cost																		
7.1.1) CHARGE, SHOCK TEST, 60 LB (XW65) ^(†)	1,158.93	560	0.649	1,783.25	406	0.724	-	-	0.000	1,948.19	500	0.974	-	-	0.000	1,948.19	500	0.974
Subtotal: Recurring Cost	-	-	0.649	-	-	0.724	-	-	0.000	-	-	0.974	-	-	0.000	-	-	0.974
Subtotal: Hardware - AJ100 SHOCK TEST CHARGES Cost	-	-	0.649	-	-	0.724	-	-	0.000	-	-	0.974	-	-	0.000	-	-	0.974
Hardware - AJ100 SIGNALS Cost																		
Recurring Cost																		
8.1.1) SIGNAL ILLUMINATION, MK80/2 RED STAR (L258) ^(†)	47.45	11,000	0.522	8.28	40,600	0.336	11.59	29,001	0.336	11.73	31,906	0.374	-	-	0.000	11.73	31,906	0.374
8.1.2) SIG, SMK ILLUM, MAR, MK 124/1, DISTRESS (LA60) ^(†)	73.54	37,708	2.773	-	-	0.000	84.69	8,418	0.713	86.38	20,000	1.728	-	-	0.000	86.38	20,000	1.728
Subtotal: Recurring Cost	-	-	3.295	-	-	0.336	-	-	1.049	-	-	2.102	-	-	0.000	-	-	2.102
Subtotal: Hardware - AJ100 SIGNALS Cost	-	-	3.295	-	-	0.336	-	-	1.049	-	-	2.102	-	-	0.000	-	-	2.102
Hardware - TRAINING DEVICES Cost																		
Recurring Cost																		
9.1.1) SIM, HAND GRENADE, M116 (L601)	15.53	46,350	0.720	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.720	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - TRAINING DEVICES Cost	-	-	0.720	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - (AJ850) PRODUCT IMPROVEMENT Cost																		
Recurring Cost																		
10.1.1) PRODUCT IMPROVEMENT (N96) Surface Warfare	-	-	5.990	-	-	0.124	-	-	0.278	-	-	0.251	-	-	0.000	-	-	0.251
10.1.2) PRODUCT IMPROVEMENT (N97) Undersea Warfare	-	-	1.519	-	-	0.000	-	-	0.000	-	-	0.536	-	-	0.000	-	-	0.536
Subtotal: Recurring Cost	-	-	7.509	-	-	0.124	-	-	0.278	-	-	0.787	-	-	0.000	-	-	0.787

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems						
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)
Subtotal: Hardware - (AJ850) PRODUCT IMPROVEMENT Cost	-	-	7.509	-	-	0.124	-	-	0.278	-	-	0.787	-	-	0.000	-	-	0.787
Hardware - (AJ893) RENOVATION COMPONENTS Cost																		
Recurring Cost																		
11.1.1) RENOVATION COMPONENTS	-	-	1.471	-	-	0.140	-	-	0.268	-	-	0.647	-	-	0.000	-	-	0.647
Subtotal: Recurring Cost	-	-	1.471	-	-	0.140	-	-	0.268	-	-	0.647	-	-	0.000	-	-	0.647
Subtotal: Hardware - (AJ893) RENOVATION COMPONENTS Cost	-	-	1.471	-	-	0.140	-	-	0.268	-	-	0.647	-	-	0.000	-	-	0.647
Hardware - (AJ894) GAUGE REQUIREMENTS Cost																		
Recurring Cost																		
12.1.1) GAUGE REQUIREMENTS	-	-	0.119	-	-	0.000	-	-	0.005	-	-	0.005	-	-	0.000	-	-	0.005
Subtotal: Recurring Cost	-	-	0.119	-	-	0.000	-	-	0.005	-	-	0.005	-	-	0.000	-	-	0.005
Subtotal: Hardware - (AJ894) GAUGE REQUIREMENTS Cost	-	-	0.119	-	-	0.000	-	-	0.005	-	-	0.005	-	-	0.000	-	-	0.005
Hardware - (AJ895) NON-STANDARD Cost																		
Recurring Cost																		
13.1.1) NON-STANDARD	-	-	0.642	-	-	0.211	-	-	0.205	-	-	0.204	-	-	0.000	-	-	0.204
Subtotal: Recurring Cost	-	-	0.642	-	-	0.211	-	-	0.205	-	-	0.204	-	-	0.000	-	-	0.204
Subtotal: Hardware - (AJ895) NON-STANDARD Cost	-	-	0.642	-	-	0.211	-	-	0.205	-	-	0.204	-	-	0.000	-	-	0.204
Support - (AJ830) PRODUCTION ENGINEERING Cost																		
14.1) PRODUCTION ENGINEERING (N95) Expeditionary Warfare	-	-	0.059	-	-	0.050	-	-	0.038	-	-	0.038	-	-	0.000	-	-	0.038
14.2) PRODUCTION ENGINEERING (N96) Surface Warfare	-	-	17.115	-	-	1.630	-	-	1.454	-	-	1.500	-	-	0.000	-	-	1.500
14.3) PRODUCTION ENGINEERING (N97) Undersea Warfare	-	-	5.083	-	-	0.631	-	-	0.656	-	-	0.646	-	-	0.000	-	-	0.646
Subtotal: Support - (AJ830) PRODUCTION ENGINEERING Cost	-	-	22.257	-	-	2.311	-	-	2.148	-	-	2.184	-	-	0.000	-	-	2.184

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
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)
Gross/Weapon System Cost	-	-	79.554	-	-	10.111	-	-	8.637	-	-	10.085	-	-	0.000	-	-	10.085
Remarks: [Hardware] AJ100 HARDWARE Procures all up rounds and conduct acceptance tests. Costs associated with Transportation Account Code (TAC) are for first destination of delivery of production items. Unit costs and quantities will be adjusted during the year of execution. [Hardware] AJ850: PRODUCT IMPROVEMENT - Provides engineering services and related efforts by government activities, the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. FY19 will address obsolescence in the pyrotechnic composition of the MK 80 signal. FY19 will initiate the product improvement for the MK 140, 141 and 144 submarine signal to address obsolescence and improve manufacturing of the fuzing and pyrotechnic assembly. [Hardware] AJ893: RENOVATION COMPONENTS - The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions. FY19 increase since MK 62 remote timing device (MN81) Batteries reached end of service life. Will procure and replace to return assets to serviceable condition. [Hardware] AJ894: GAUGE REQUIREMENTS - Procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and sub-assemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance. [Hardware] AJ895: NON-STANDARD - The non-standard line is to support procurement of ammunition training aids and initial procurements of required non-type classified munition items. [Support Cost] AJ830: PRODUCTION ENGINEERING - Provides for production engineering services to support new acquisition and in production ammunition. (t) 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: 1508N / 01 / 1				P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition				Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
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
3.1.6) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2014	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Jan 2015	Feb 2018	4,380	184.91	Y		Aug 2014
3.1.6) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Jun 2015	Mar 2018	4,570	191.05	Y		Aug 2014
3.1.6) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2016	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Jun 2016	Apr 2019	1,295	176.06	Y		Oct 2015
3.1.6) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)	✓	2016	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Apr 2016	Jan 2019	3,145	176.47	Y		Oct 2015
3.1.6) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2017	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Jul 2017	Dec 2019	5,076	175.48	Y		Oct 2016
3.1.6) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2018	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Mar 2018	Jan 2020	2,750	182.91	Y		Oct 2017
3.1.6) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2019	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Mar 2019	Sep 2020	6,675	182.91	N	Apr 2018	Oct 2018
3.1.7) CUTTER, MK33, NON-ELECTRIC IN (SS43)		2015	HANLEY INDUSTRIES INC / ALTON, IL	C / FFP	NAVSUP	Apr 2015	Jul 2017	500	823.63	Y		Jan 2015
3.1.8) CARTRIDGE, IMPULSE, MK 192 MOD 0 (MD54)		2018	TBD / TBD	C / FFP	NAVSUP	Mar 2018	Sep 2019	3,574	148.57	Y		Aug 2017
4.1.1) CAP, BLASTING, ELEC, INERT (MP16)		2017	STRESAU LABS. / SPOONER. WI	C / FFP	JMC ROCK ISLAND	Apr 2017	Feb 2018	7,880	28.74	Y		May 2015
4.1.1) CAP, BLASTING, ELEC, INERT (MP16)	✓	2017	STRESAU LABS. / SPOONER. WI	C / FFP	JMC ROCK ISLAND	Apr 2017	Feb 2018	4,080	28.74	Y		May 2015
4.1.3) SQUIB, ELECTRIC, MK 20 MOD 2 (MP40)		2017	STRESAU LABS. / SPOONER. WI	C / FFP	NSWC CRANE	Apr 2017	Feb 2018	23,184	68.26	Y		May 2012
4.1.5) CORD, DETONATING, PRIMACORD (M456)		2018	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	900,000	0.86	Y		Mar 2016
4.1.11) IGNITIER, TIME BLASTING FUZE (MN08)		2013	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Aug 2013	Mar 2018	43,956	5.35	Y		Dec 2012
5.1.1) CHG KIT, DML, MK 75 (MW84)		2015	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	Nov 2018	1,177	1,672.88	Y		Nov 2015
5.1.1) CHG KIT, DML, MK 75 (MW84)		2016	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	Dec 2018	982	1,621.43	Y		Nov 2015
5.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023)	✓	2017	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	JMC ROCK ISLAND	Apr 2017	May 2018	20,580	27.30	Y		May 2014
5.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023)		2019	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	JMC ROCK ISLAND	Mar 2019	Sep 2020	23,500	30.85	Y		May 2014
5.1.3) CHG, DML, XPL ROLL, 11FT (M985)		2016	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	Sep 2019	4,140	96.21	Y		Nov 2015
5.1.3) CHG, DML, XPL ROLL, 11FT (M985)		2017	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	Oct 2019	6,754	53.82	Y		Nov 2015

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0340 / Pyrotechnic and Demolition					1 / Integrated Warfare Systems				
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
5.1.4) CHG, DML, XPL ROLL, 25 FT (M981)		2016	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	Aug 2019	6,120	47.32	Y		Nov 2015
5.1.4) CHG, DML, XPL ROLL, 25 FT (M981)		2017	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	Aug 2019	7,675	22.02	Y		Nov 2015
5.1.4) CHG, DML, XPL ROLL, 25 FT (M981)	✓	2017	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	Aug 2019	6,700	22.02	Y		Nov 2015
5.1.5) CHG, DML, XPL ROLL, 38 FT, 14 (M980)	✓	2017	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	May 2020	13,680	14.27	Y		Nov 2015
5.1.5) CHG, DML, XPL ROLL, 38 FT, 14 (M980)		2018	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	4,975	31.73	Y		Nov 2015
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02)		2015	CARTRIDGE ACTUATED DEVICES INC / FAIRFIELD, NJ	C / FFP	NSWC CRANE	Sep 2015	Feb 2018	2,026	490.92	Y		Dec 2014
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02)		2016	CARTRIDGE ACTUATED DEVICES INC / FAIRFIELD, NJ	C / FFP	NSWC CRANE	Jul 2017	Jul 2018	1,421	444.87	Y		Dec 2014
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02)	✓	2016	CARTRIDGE ACTUATED DEVICES INC / FAIRFIELD, NJ	C / FFP	NSWC CRANE	Jul 2017	Nov 2018	1,579	444.76	Y		Dec 2014
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02)		2018	CARTRIDGE ACTUATED DEVICES INC. / FAIRFIELD, NJ.	C / FFP	NSWC CRANE	Mar 2018	Mar 2019	2,122	465.25	Y		Dec 2014
5.1.9) CHG, DEML, MK149 MOD0 LOW HAZ FLEX LIN SHP (MM54)		2017	DONOVAN INDUSTRIES / Graham, KY	C / FFP	NSWC CRANE	Nov 2017	Dec 2018	5,600	88.57	Y		May 2013
5.1.11) CHARGE, DEMO SHEET, FLEXIBLE, 0.043 THICK (M994)		2017	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	Jun 2020	26,600	8.43	Y		Nov 2015
5.1.11) CHARGE, DEMO SHEET, FLEXIBLE, 0.043 THICK (M994)	✓	2017	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jul 2017	May 2020	11,856	8.43	Y		Nov 2015
6.1.1) SIG, SMK ILLUM, MAR, MK 141, GREEN (LA26)		2011	CHEMRING ORDANCE INC / PERRY, FL	C / FFP	NSWC CRANE	Sep 2011	Aug 2018	181	2,574.59	Y		Mar 2011
6.1.1) SIG, SMK ILLUM, MAR, MK 141, GREEN (LA26)		2013	CHEMRING ORDANCE INC / PERRY, FL	C / FFP	NSWC CRANE	Sep 2013	Aug 2018	790	1,540.51	Y		Mar 2011
6.1.2) SIG, SMK ILLUM, MAR, MK 144/118, YELLOW (LA27)		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Jun 2015	Aug 2018	428	3,471.96	Y		Oct 2014
6.1.2) SIG, SMK ILLUM, MAR, MK 144/118, YELLOW (LA27)		2016	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Jul 2016	Sep 2018	290	2,486.21	Y		Oct 2015
6.1.2) SIG, SMK ILLUM, MAR, MK 144/118, YELLOW (LA27)		2019	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Mar 2019	Sep 2020	252	2,672.00	N	Apr 2018	Oct 2018
6.1.3) MARKER, LOCATION, SUB, MK 140, RED (LA28)		2017	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Jul 2017	May 2019	165	2,626.26	Y		Oct 2016
6.1.3) MARKER, LOCATION, SUB, MK 140, RED (LA28)		2018	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	MIPR	NO PCO	Mar 2018	Sep 2019	254	2,677.17	Y		Oct 2017
6.1.4) CTG, IMPULSE, MK148 (M663)		2016	PACIFIC SCIENTIFIC / HOLLISTER, CA	SS / FFP	NAVSUP	Sep 2016	Dec 2018	100	4,360.00	Y		Feb 2016

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
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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
6.1.5) EXPLOSIVE BOLT CARTRIDGE (MC91)		2017	CARTRIDGE ACTUATED DEVICES INC / FAIRFIELD, NJ	C / FFP	NAVSUP	Jul 2017	Sep 2018	150	3,317.05	Y		Dec 2016
6.1.6) SWITCH, SQUIB ACTUATED, MK112 (M853)		2015	NETWORK ELECTRONIC CO / CHATSWORTH, CA	SS / FFP	NSWC IHEODTD	Mar 2017	May 2018	122	803.28	Y		Aug 2016
6.1.7) CTG, IMPULSE, MK 235 (MW97)		2018	UNITED TECHNOLOGIES / FAIRFIELD, CA	SS / FFP	NAVSUP	Mar 2018	Sep 2019	112	4,439.32	Y		Dec 2017
7.1.1) CHARGE, SHOCK TEST, 60 LB (XW65)		2017	NSWC IHEODTD / INDIAN HEAD, MD	MIPR	NO PCO	Jun 2017	Dec 2018	406	1,783.25	Y		Sep 2016
7.1.1) CHARGE, SHOCK TEST, 60 LB (XW65)		2019	TBD / TBD	MIPR	NO PCO	Mar 2019	Sep 2020	500	1,948.19	N	Apr 2018	Oct 2018
8.1.1) SIGNAL ILLUMINATION, MK80/2 RED STAR (L258)		2017	SECURITY SIGNALS INC / CORDOVA, TN	C / FFP	NSWC CRANE	Feb 2017	Aug 2018	40,600	8.28	Y		Mar 2015
8.1.1) SIGNAL ILLUMINATION, MK80/2 RED STAR (L258)		2018	SECURITY SIGNALS INC / CORDOVA, TN	C / FFP	NSWC CRANE	Mar 2018	Jun 2019	29,001	11.59	Y		Mar 2015
8.1.1) SIGNAL ILLUMINATION, MK80/2 RED STAR (L258)		2019	SECURITY SIGNALS INC / CORDOVA, TN	C / FFP	NSWC CRANE	Mar 2019	Jun 2020	31,906	11.73	Y		Mar 2015
8.1.2) SIG, SMK ILLUM, MAR, MK 124/1, DISTRESS (LA60)		2014	CHEMRING ORDANCE INC / PERRY, FL	C / FFP	NSWC CRANE	Sep 2014	Dec 2015	12,096	74.49	Y		Mar 2011
8.1.2) SIG, SMK ILLUM, MAR, MK 124/1, DISTRESS (LA60)		2016	CHEMRING ORDANCE INC / PERRY, FL	C / FFP	NSWC CRANE	Jun 2016	Apr 2018	25,612	73.11	Y		Mar 2011
8.1.2) SIG, SMK ILLUM, MAR, MK 124/1, DISTRESS (LA60)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Aug 2018	Feb 2020	8,418	84.69	Y		Mar 2018
8.1.2) SIG, SMK ILLUM, MAR, MK 124/1, DISTRESS (LA60)		2019	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2019	Sep 2020	20,000	86.38	Y		Mar 2018

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 2 / Naval Special Warfare								
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 (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				6.199			0.817			1.623			0.846			1.807			2.653		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				6.199			0.817			1.623			0.846			1.807			2.653		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				6.199			0.817			1.623			0.846			1.807			2.653		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
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 - AJNSW PE/QA SMCA Cost																					
Recurring Cost																					
1.1.1) AJNSW PE/QA SMCA	-	-	0.055	-	-	0.086	-	-	0.068	-	-	0.011	-	-	0.029	-	-	0.040			
Subtotal: Recurring Cost	-	-	0.055	-	-	0.086	-	-	0.068	-	-	0.011	-	-	0.029	-	-	0.040			
Subtotal: Hardware - AJNSW PE/QA SMCA Cost	-	-	0.055	-	-	0.086	-	-	0.068	-	-	0.011	-	-	0.029	-	-	0.040			
Hardware - AJNSW DET, CORDS, CAPS, FUZES Cost																					
Recurring Cost																					
2.1.1) DETONATOR, W IN-LINE INITIATOR 40FT (MP29) ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	137.70	7,680	1.058	137.70	7,680	1.058			
2.1.2) CAP, BLASTING, ELECTRIC MK 18 MOD 0 (DWHH) ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	53.67	6,000	0.322	53.67	6,000	0.322			
2.1.3) CHG, FLEX LINEAR, LOW - HAZARD (ECT) (MM24) ^{(†) (1)}	-	-	0.000	-	-	0.000	22.65	18,720	0.424	-	-	0.000	-	-	0.000	-	-	0.000			
2.1.4) CHG, BOOSTER, 20 GM, MK 140 (MM30)	3.70	30,000	0.111	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000			
2.1.5) IGNITER, TIME BLASTING FUZE (MN08) ^(†)	5.62	306,760	1.724	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000			

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 2 / Naval Special Warfare						
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)
Subtotal: Recurring Cost	-	-	1.835	-	-	0.000	-	-	0.424	-	-	0.000	-	-	1.380	-	-	1.380
Subtotal: Hardware - AJNSW DET, CORDS, CAPS, FUZES Cost	-	-	1.835	-	-	0.000	-	-	0.424	-	-	0.000	-	-	1.380	-	-	1.380
Hardware - AJNSW MINE CHARGERS & CHARGE CUTTERS Cost																		
Recurring Cost																		
3.1.1) CHG, DEMO, EXPLOSIVE SHEET, .333 (M986) ^(†)	175.63	7,516	1.320	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.1.2) CHG, DEMO, EXPLOSIVE SHEET, .083 (M980) ^(†) (2)	-	-	0.000	-	-	0.000	31.73	18,374	0.583	-	-	0.000	-	-	0.000	-	-	0.000
3.1.3) CHG, DEMO, EXPLOSIVE SHEET, .125 (M981) ^(†) (3)	-	-	0.000	-	-	0.000	48.93	9,156	0.448	-	-	0.000	-	-	0.000	-	-	0.000
3.1.4) CHG, DEMO, 40LB BLK Cratering (M039) ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	1,989.43	200	0.398	1,989.43	200	0.398
3.1.5) CHG, DML, BLK, COMP C-4, 1.25 (M023) ^(†)	26.10	45,360	1.184	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	2.504	-	-	0.000	-	-	1.031	-	-	0.000	-	-	0.398	-	-	0.398
Subtotal: Hardware - AJNSW MINE CHARGERS & CHARGE CUTTERS Cost	-	-	2.504	-	-	0.000	-	-	1.031	-	-	0.000	-	-	0.398	-	-	0.398
Hardware - AJNSW TRAINING DEVICES Cost																		
Recurring Cost																		
4.1.1) SIM, HAND GRENADE, M116 (L601) ^(†)	-	-	0.000	17.19	33,450	0.575	-	-	0.000	18.00	40,800	0.734	-	-	0.000	18.00	40,800	0.734
4.1.2) FLARE, SURFACE TRIP M49 (L495)	40.60	5,000	0.203	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.203	-	-	0.575	-	-	0.000	-	-	0.734	-	-	0.000	-	-	0.734
Subtotal: Hardware - AJNSW TRAINING DEVICES Cost	-	-	0.203	-	-	0.575	-	-	0.000	-	-	0.734	-	-	0.000	-	-	0.734
Hardware - AJNSW SIGNALS Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition						Item Number / Title [DODIC]: 2 / Naval Special Warfare						
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)
Recurring Cost																		
5.1.1) SIGNAL DIVERS AUDIBLE RECALL (3W92) ^(†)	115.09	921	0.106	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.2) SIM, PROJ, GROUND BURST M115A2 (L594) ^(†)	16.77	21,700	0.364	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.470	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - AJSNW SIGNALS Cost	-	-	0.470	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Support - (NS830) PRODUCTION ENGINEERING Cost																		
6.1) PRODUCTION ENGINEERING	-	-	1.132	-	-	0.156	-	-	0.100	-	-	0.101	-	-	0.000	-	-	0.101
Subtotal: Support - (NS830) PRODUCTION ENGINEERING Cost	-	-	1.132	-	-	0.156	-	-	0.100	-	-	0.101	-	-	0.000	-	-	0.101
Gross/Weapon System Cost	-	-	6.199	-	-	0.817	-	-	1.623	-	-	0.846	-	-	1.807	-	-	2.653
Remarks:																		
[Hardware] AJSNW: NAVAL SPECIAL WARFARE - Procures components, load and assemble complete rounds and conduct acceptance tests. Costs associated with Transportation Account Code (TAC) are for first destination of delivery of production items for Naval Special Warfare service common items. Unit costs and quantities will be adjusted during the year of execution.																		
[Support Cost] NS830:PRODUCTION ENGINEERING - Provides for production engineering services.																		
(†) indicates the presence of a P-5a																		
Footnotes:																		
(1) Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys. The unit cost will fluctuate depending on the total procurement.																		
(2) Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys. The unit cost will fluctuate depending on the total procurement.																		
(3) Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys. The unit cost will fluctuate depending on the total procurement.																		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition					Item Number / Title [DODIC]: 2 / Naval Special Warfare			
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
2.1.1) DETONATOR, W IN-LINE INITIATOR 40FT (MP29)	✓	2019	New MFG - Name / New MFG - Loc	C / TBD	NSWC CRANE	Jan 2019	Jan 2019	7,680	137.70	Y		
2.1.2) CAP, BLASTING, ELECTRIC MK 18 MOD 0 (DWHH)	✓	2019	STRESAU LABS. / SPOONER. WI	C / TBD	NSWC CRANE	Jan 2019	Nov 2019	6,000	53.67	Y		
2.1.3) CHG, FLEX LINEAR, LOW - HAZARD (ECT) (MM24)		2018	TBD / TBD	C / TBD	JMC ROCK ISLAND	Oct 2017	Oct 2017	7,200	22.64	N		
2.1.3) CHG, FLEX LINEAR, LOW - HAZARD (ECT) (MM24)	✓	2018	TBD / TBD	C / TBD	JMC ROCK ISLAND	Oct 2017	Oct 2017	11,520	22.64	N		
2.1.5) IGNITER, TIME BLASTING FUZE (MN08)		2014	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Apr 2015	Feb 2016	106,405	5.62	Y		Oct 2013
2.1.5) IGNITER, TIME BLASTING FUZE (MN08)		2015	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Apr 2015	Feb 2016	200,355	5.62	Y		Oct 2014
3.1.1) CHG, DEMO, EXPLOSIVE SHEET, .333 (M986)	✓	2015	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jun 2015	Oct 2016	5,185	135.00	Y		Dec 2013
3.1.1) CHG, DEMO, EXPLOSIVE SHEET, .333 (M986)	✓	2016	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jun 2016	Oct 2017	2,331	265.98	Y		Dec 2013
3.1.2) CHG, DEMO, EXPLOSIVE SHEET, .083 (M980)		2018	TBD / TBD	C / TBD	JMC ROCK ISLAND	Oct 2017	Oct 2017	10,432	31.73	N		
3.1.2) CHG, DEMO, EXPLOSIVE SHEET, .083 (M980)	✓	2018	TBD / TBD	C / TBD	JMC ROCK ISLAND	Oct 2017	Oct 2017	7,942	31.73	N		
3.1.3) CHG, DEMO, EXPLOSIVE SHEET, .125 (M981)		2018	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	4,006	48.93	Y		Nov 2015
3.1.3) CHG, DEMO, EXPLOSIVE SHEET, .125 (M981)	✓	2018	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	5,150	48.93	Y		Nov 2015
3.1.4) CHG, DEMO, 40LB BLK Cratering (M039)	✓	2019	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / TBD	JMC ROCK ISLAND	Jun 2019	Jun 2021	200	1,989.43	N	Jun 2021	Mar 2019
3.1.5) CHG, DML, BLK, COMP C-4, 1.25 (M023)		2013	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Dec 2014	Dec 2016	24,552	21.22	Y		Oct 2009
3.1.5) CHG, DML, BLK, COMP C-4, 1.25 (M023)		2015	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Dec 2015	Dec 2016	9,738	39.84	Y		Dec 2013
4.1.1) SIM, HAND GRENADE, M116 (L601)		2017	PYROTECHNIQUE BY GRUCCI, INC / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Oct 2016	Apr 2018	33,450	17.19	N		
4.1.1) SIM, HAND GRENADE, M116 (L601)		2019	UNKNOWN / UNKNOWN	C / TBD	** NO PCO **	Oct 2018	Apr 2020	40,800	18.00	N		
5.1.1) SIGNAL DIVERS AUDIBLE RECALL (3W92)		2016	TBD / TBD	C / TBD	NSWC CRANE	Jun 2017	Jun 2017	921	115.00	N		Jul 2016
5.1.2) SIM, PROJ, GROUND BURST M115A2 (L594)		2016	PYROTECHNIQUE GRUCCI / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Mar 2016	Jun 2017	21,700	16.77	Y		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: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 2 / Naval Special Warfare

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition							P-1 Line Item Number / Title: 0400 / Ammunition less than \$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>)	81.935	6.395	3.946	1.106	2.229	3.335	3.468	3.078	2.349	2.363	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	81.935	6.395	3.946	1.106	2.229	3.335	3.468	3.078	2.349	2.363	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	81.935	6.395	3.946	1.106	2.229	3.335	3.468	3.078	2.349	2.363	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.010 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 program provides funding for ammunition with value less than \$5 million.

Marine Location Markers include both air-launched and hand-launched pyrotechnic devices. The aircraft launched units visually assist in the location of sonobouys during anti-submarine operations. The hand launched units are used in a variety of situations to include Search and Rescue operations, Man Overboard drills and Target Marking. The Mk-58 was designed for day or night use in any condition calling for long burning, smoke and flame reference-point marking on the ocean. It produces yellow flame and white smoke for 40-60 minutes, which is visible for at least three miles under normal operating conditions. The Mk-25 was designed for day or night use in any condition with shorter burning, smoke and flame reference-point marking on the ocean. It produces yellow flame and white smoke for 20-30 minutes, which is visible for at least three miles under normal operating conditions. The Mk-25 has a smaller logistical footprint to support use on smaller ships. The Mk-25 is also provided as a fresh water variant.

The LUU-19 Aircraft Parachute Flares (APFs) are used for near infrared nighttime illumination of surface areas in search and attack operations. They are 36 inches long, 4.9 inches in diameter and weigh approximately 36 pounds, and provide 7 minutes illumination at approximately 650 watts/steradian in the infrared region.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition						P-1 Line Item Number / Title: 0400 / Ammunition less than \$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	Ammunition less than \$5 million	P-5a, P-21			- / 81.935	- / 6.395	- / 3.946	- / 1.106	- / 2.229	- / 3.335
P-40	Total Gross/Weapon System Cost				- / 81.935	- / 6.395	- / 3.946	- / 1.106	- / 2.229	- / 3.335
*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 \$2 million to account for the availability of prior year execution balances.

FY 2019 baseline funding is required to procure Mk-25 and Mk-58 Marine Location Markers (MLMs) to enable day and night Search and Rescue operations and target marking from aircraft and surface combatants. Additionally, FY 2019 baseline funding is required for MLM production support.

Additional Baseline funding is required to address production support to include product improvements needed for components designed as well as Production Engineering Support, Integrated Logistics Support, Reliability Life (i.e. Safety and Product Improvement Program, Quality Assurance and Acceptance Testing), including Miscellaneous Items to provide for procurement of various components not to exceed a total cost of 100K per year per component.

OCO:

FY 2019 Overseas Contingency Operations (OCO) is required to procure munitions expended in support of Operation Inherent Resolve (OIR) operations to replenish actual in-theatre supply levels. Failure to replenish LUU-19 APF expenditures will significantly diminish the US Marine Corps' ability to conduct night-time ground combat and CAS operations.

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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: 1508N / 01 / 1							P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million								Aggregated Items Title: Ammunition less than \$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) HARDWARE																				
1.1) MK-25 MARINE LOCATION MARKERS ^(†)	A		-	-	-	-	-	-	268.44	1,695	0.455	274.00	1,670	0.458	-	-	-	274.00	1,670	0.458
1.2) (A5010) MK-58 MARINE LOCATION MARKERS ^{(1)(†)}	A		723.45	40,156	29.051	214.55	5,635	1.209	268.29	2,460	0.660	274.00	720	0.197	-	-	-	274.00	720	0.197
1.3) (A5011) LUU-19 PARAFLARES ^(†)	A		1,541.15	22,648	34.904	1,731.29	2,745	4.752	1,731.29	1,315	2.277	-	-	0.000	1,766.38	1,262	2.229	1,766.38	1,262	2.229
1.4) (A5894) Miscellaneous	A		-	-	0.442	-	-	0.034	-	-	0.050	-	-	0.050	-	-	-	-	-	0.050
Subtotal: 1) HARDWARE			-	-	64.397	-	-	5.995	-	-	3.442	-	-	0.705	-	-	2.229	-	-	2.934
2) PRODUCTION SUPPORT																				
2.1) MARINE LOCATION MARKERS	A		-	-	17.124	-	-	0.311	-	-	0.405	-	-	0.401	-	-	-	-	-	0.401
2.2) (A5820) LUU-19 Paraflares Support	A		-	-	0.414	-	-	0.089	-	-	0.099	-	-	-	-	-	-	-	-	-
Subtotal: 2) PRODUCTION SUPPORT			-	-	17.538	-	-	0.400	-	-	0.504	-	-	0.401	-	-	-	-	-	0.401
Total			-	-	81.935	-	-	6.395	-	-	3.946	-	-	1.106	-	-	2.229	-	-	3.335

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⁾ (A5010) MK-58 MARINE LOCATION MARKERS: Unit Cost varies depending on total procurement quantity across services.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million					Aggregated Items: Ammunition less than \$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) HARDWARE												
1.1) MK-25 MARINE LOCATION MARKERS ^(†)		2018 ⁽²⁾	TBD ⁽³⁾ / TBD	C / FFP	Crane, IN	Sep 2018	Sep 2019	1,695	268.44	Y		Feb 2018
1.1) MK-25 MARINE LOCATION MARKERS ^(†)		2019	TBD ⁽³⁾ / TBD	C / FFP	Crane, IN	Jul 2019	Sep 2020	1,670	274.00	Y		Feb 2018
1.2) (A5010) MK-58 MARINE LOCATION MARKERS ^{(1)(†)}		2016	HFI PYROTECHNICS INC / Ontario, Canada	SS / FFP	Crane, IN	Sep 2016	Sep 2017	5,631	211.87	Y		Jun 2012
1.2) (A5010) MK-58 MARINE LOCATION MARKERS ^{(1)(†)}		2017 ⁽⁴⁾	Kilgore Flares / Toone, Tennessee	SS / FFP	Crane, IN	Jul 2018	Apr 2019	5,635	214.55	Y		Dec 2017
1.2) (A5010) MK-58 MARINE LOCATION MARKERS ^{(1)(†)}		2018	Kilgore Flares / Toone, Tennessee	SS / FFP	Crane, IN	Jul 2018	Apr 2019	2,460	268.29	Y		Dec 2017
1.2) (A5010) MK-58 MARINE LOCATION MARKERS ^{(1)(†)}		2019	Kilgore Flares / Toone, Tennessee	SS / FFP	Crane, IN	Jul 2019	Apr 2020	720	274.00	Y		Dec 2017
1.3) (A5011) LUU-19 PARAFLARES ^(†)		2016	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Jun 2016	Jun 2017	1,716	1,658.51	Y		May 2014
1.3) (A5011) LUU-19 PARAFLARES ^(†)	✓	2016	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Jun 2016	Jun 2017	2,818	1,658.65	Y		May 2014
1.3) (A5011) LUU-19 PARAFLARES ^(†)		2017 ⁽⁵⁾	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Jun 2018	Jun 2019	726	1,731.29	Y		May 2014
1.3) (A5011) LUU-19 PARAFLARES ^(†)	✓	2017 ⁽⁶⁾	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Jun 2018	Jun 2019	2,019	1,731.29	Y		May 2014
1.3) (A5011) LUU-19 PARAFLARES ^(†)		2018	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Jun 2018	Jun 2019	815	1,731.29	Y		May 2014
1.3) (A5011) LUU-19 PARAFLARES ^(†)	✓	2018	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Jun 2018	Jun 2019	500	1,731.29	Y		May 2014
1.3) (A5011) LUU-19 PARAFLARES ^(†)	✓	2019	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Jun 2019	Jun 2020	1,262	1,766.38	Y		May 2014
^(†) indicates the presence of a P-21 Footnotes: ⁽²⁾ FY2018 / FY2019 MK-25 effort is a competitive award therefore the performing activity and location are currently TBD to support a competitive contracting strategy. This contract consists of a base year (FY18) and option year that will affect the current budget year. Once awarded, the performing activity and location will be updated to reflect the selected contractor. ⁽³⁾ Annual Production Rates are currently estimated and will be updated once a contractor is awarded. ⁽⁴⁾ (A5010) MK-58 FY 2017 Contract award date changed to July 2018 due to additional time required to award a 3 year sole source IDIQ contract.												

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Aggregated Items:
1508N / 01 / 1	0400 / Ammunition less than \$5 million	Ammunition less than \$5 million
⁽⁵⁾ (A5011) LUU-19 Paraflares: FY 2017 Contract award date changed from June 2017 to June 2018 to achieve economies of scale when combined with FY18 funding. ⁽⁶⁾ (A5011) LUU-19 Paraflares OCO: FY 2017 Contract award date changed from June 2017 to June 2018 to achieve economies of scale when combined with FY18 funding.		

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million										Aggregated Items: Ammunition less than \$5 million																
Items (Units in Each)							Fiscal Year 2016										Fiscal Year 2017													B A L A N C E						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT			Calendar Year 2016										Calendar Year 2017																	
							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) HARDWARE																																				
1.1) MK-25 MARINE LOCATION MARKERS																																				
	29	2018	NAVY		1,695	0	1,695																										1,695			
	29	2019	NAVY		1,670	0	1,670																										1,670			
1.2) (A5010) MK-58 MARINE LOCATION MARKERS ⁽¹⁾																																				
Prior Years Deliveries: 34525																																				
	30	2016	NAVY		5,631	0	5,631											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	469	5,162	
	31	2017	NAVY		5,635	0	5,635																										5,635			
	31	2018	NAVY		2,460	0	2,460																										2,460			
	31	2019	NAVY		720	0	720																										720			
1.3) (A5011) LUU-19 PARAFLARES																																				
Prior Years Deliveries: 18114																																				
	32	2016	NAVY		1,716	0	1,716											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	143	143	143	143	1,144
✓	32	2016	NAVY		2,818	0	2,818											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	234	234	235	235	1,880
	32	2017	NAVY		726 ⁽⁷⁾	0	726																										726			
✓	32	2017	NAVY		2,019	0	2,019																										2,019			
	32	2018	NAVY		815	0	815																										815			
✓	32	2018	NAVY		500	0	500																										500			
✓	32	2019	NAVY		1,262	0	1,262																										1,262			
							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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million													Aggregated Items: Ammunition less than \$5 million																								
Items (Units in Each)							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) HARDWARE																																															
1.1) MK-25 MARINE LOCATION MARKERS																																															
	29	2018	NAVY		1,695	0	1,695													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	141	1,554										
	29	2019	NAVY		1,670	0	1,670																											A -	-	-	-	-	-	-	-	-	-	-	-	-	1,670
1.2) (A5010) MK-58 MARINE LOCATION MARKERS ⁽¹⁾																																															
Prior Years Deliveries: 34525																																															
	30	2016	NAVY		5,631	469	5,162	469	469	469	469	469	469	469	470	470	470																				0										
	31	2017	NAVY		5,635	0	5,635													A -	-	-	-	-	-	-	-	-	-	-	-	469	469	469	469	469	470	2,820									
	31	2018	NAVY		2,460	0	2,460													A -	-	-	-	-	-	-	-	-	-	-	-	205	205	205	205	205	205	1,230									
	31	2019	NAVY		720	0	720																											A -	-	-	-	-	-	-	-	-	-	-	-	720	
1.3) (A5011) LUU-19 PARAFLARES																																															
Prior Years Deliveries: 18114																																															
	32	2016	NAVY		1,716	572	1,144	143	143	143	143	143	143	143																							0										
✓	32	2016	NAVY		2,818	938	1,880	235	235	235	235	235	235	235																							0										
	32	2017	NAVY		726 ⁽⁷⁾	0	726													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60	60	60	486								
✓	32	2017	NAVY		2,019	0	2,019													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	169	169	169	168	1,344									
	32	2018	NAVY		815	0	815													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	67	68	68	68	544									
✓	32	2018	NAVY		500	0	500													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	41	41	41	41	336									
✓	32	2019	NAVY		1,262	0	1,262																											A -	-	-	-	-	-	-	-	-	-	-	-	-	1,262
								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: 1508N / 01 / 1										P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million										Aggregated Items: Ammunition less than \$5 million														
Items (Units in Each)							Fiscal Year 2020										Fiscal Year 2021													BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021																	
							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) HARDWARE																																		
1.1) MK-25 MARINE LOCATION MARKERS																																		
	29	2018	NAVY	1,695	141	1,554	141	141	141	141	141	141	141	141	141	144																		0
	29	2019	NAVY	1,670	0	1,670	-	-	-	-	-	-	-	-	-	-	140	140	139	139	139	139	139	139	139	139	139	139	139		0			
1.2) (A5010) MK-58 MARINE LOCATION MARKERS ⁽¹⁾																																		
Prior Years Deliveries: 34525																																		
	30	2016	NAVY	5,631	5,631	0																												0
	31	2017	NAVY	5,635	2,815	2,820	470	470	470	470	470	470																						0
	31	2018	NAVY	2,460	1,230	1,230	205	205	205	205	205																							0
	31	2019	NAVY	720	0	720	-	-	-	-	-	60	60	60	60	60	60	60	60	60	60	60	60	60						0				
1.3) (A5011) LUU-19 PARAFLARES																																		
Prior Years Deliveries: 18114																																		
	32	2016	NAVY	1,716	1,716	0																												0
✓	32	2016	NAVY	2,818	2,818	0																												0
	32	2017	NAVY	726 ⁽⁷⁾	240	486	60	60	61	61	61	61	61																					0
✓	32	2017	NAVY	2,019	675	1,344	168	168	168	168	168	168	168																					0
	32	2018	NAVY	815	271	544	68	68	68	68	68	68	68																					0
✓	32	2018	NAVY	500	164	336	42	42	42	42	42	42	42																					0
✓	32	2019	NAVY	1,262	0	1,262	-	-	-	-	-	-	-	106	106	105	105	105	105	105	105	105	105	105	105	105					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: 1508N / 01 / 1					P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million				Aggregated Items: Ammunition less than \$5 million			
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 ⁽³⁾ - TBD	3,000	4,000	15,000	0	11	12	23	0	10	14	24
2	HFI PYROTECHNICS INC - Ontario, Canada	3,000	4,000	15,000	0	0	0	0	0	12	12	24
3	Kilgore Flares - Toone, Tennessee	3,000	4,000	6,000	0	0	0	0	0	10	9	19
4	ATK Launch Systems Inc. - Brigham, UTAH	750	3,000	15,000	0	0	0	0	0	9	12	21

"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:

⁽³⁾ Annual Production Rates are currently estimated and will be updated once a contractor is awarded.

⁽⁷⁾ (A5011) LUU-19 PARAFLARES: FY 2017 Contract delay will cause a gap in deliveries, but no impacts to the production line.

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

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1000 / Small Arms Ammunition

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>)	371.552	31.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	403.379
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	371.552	31.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	403.379
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	371.552	31.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	403.379
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Small Arms Ammunition consists of a family of 9mm ammunition used in the M9 Service Pistol and MP5 Submachine gun; 5.56mm ammunition (single) used in the M16 Service Rifle, M4 Carbine and the M27 Infantry Automatic Rifle (IAR) and (linked) used in the M249 Squad Automatic Weapon (SAW); 7.62mm ammunition (single) used in the M40 and M110 Sniper Rifles and (linked) used in the M240B Machine Gun, 12 gauge used in the Remington 870, M1014 Joint Service Combat Shotgun and the Mossberg 590 Shotguns, Caliber .45 used in M45 Close Quarter Battle Pistol (CQBP) and Caliber .50 ammunition (single) used in the M82 .50 caliber Sniper Rifle and (linked) used in the M2 Browning Machine Gun. Small arms ammunition in general is described as a cartridge or a family of cartridges intended to be used in various types of crew-served/mounted weapons, hand-held pistols, or shoulder fired rifles, ranging from .22 caliber to .50 caliber weapons. A small arms cartridge is an assembly consisting of a cartridge case, a primer, a quantity of propellant, and a bullet.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition					P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					
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	Small Arms Ammunition	P-5a, P-21			- / 371.552	- / 31.827	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 371.552	- / 31.827	- / 0.000	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. 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 in FY18 and out have been realigned to line item 1350.										

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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: 1508N / 02 / 1									P-1 Line Item Number / Title: 1000 / Small Arms Ammunition							Aggregated Items Title: Small Arms Ammunition					
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) A059, CTG, 5.56MM BALL																					
1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) ^(†)	A		0.99	110,652K	110.048	0.20	63,758,310	12.752	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (2)	A		0.32	7,372,389	2.359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.3) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (1)	A		8.88	541,991	4.813	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2) ^(†)	A		10.89	93,300	1.016	12.55	70,413	0.884	-	-	-	-	-	-	-	-	-	-	-	-	
1.5) A059, 5.56MM BALL, PRODUCTION ENGINEERING			-	-	2.686	-	-	0.340	-	-	-	-	-	-	-	-	-	-	-	-	
1.6) A059, 5.56MM BALL, QUALITY ASSURANCE			-	-	0.057	-	-	0.009	-	-	-	-	-	-	-	-	-	-	-	-	
1.7) A059, 5.56MM BALL, ACCEPTANCE TESTING			-	-	0.097	-	-	0.041	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) A059, CTG, 5.56MM BALL			-	-	121.076	-	-	14.026	-	-	-	-	-	-	-	-	-	-	-	-	
2) A064, CTG, 5.56MM 4 & 1 LINKED																					
2.1) A064, 5.56MM 4 & 1 LINKED, COMPLETE ROUND	A		0.33	98,099,612	32.372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) A064, 5.56MM 4 & 1 LINKED, PRODUCTION ENGINEERING			-	-	1.196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.3) A064, 5.56MM 4 & 1 LINKED, QUALITY ASSURANCE			-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.4) A064, 5.56MM 4 & 1 LINKED, ACCEPTANCE TESTING			-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) A064, CTG, 5.56MM 4 & 1 LINKED			-	-	33.605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) A075, CTG, 5.56MM BLANK LINKED																					

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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: 1508N / 02 / 1						P-1 Line Item Number / Title: 1000 / Small Arms Ammunition									Aggregated Items Title: Small Arms Ammunition					
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) A075, 5.56MM BLANK LINKED, COMPLETE ROUND	A		0.31	16,168,113	4.993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) A075, 5.56MM BLANK LINKED, PRODUCTION ENGINEERING			-	-	0.067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) A075, 5.56MM BLANK LINKED, PRODUCTION VERIFICATION TEST			-	-	0.412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) A075, CTG, 5.56MM BLANK LINKED			-	-	5.472	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) A080, CTG, 5.56MM BLANK																				
4.1) A080, 5.56MM BLANK, LOAD, ASSEMBLE AND PACK (LAP)	A		1.27	7,056,620	8.982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) A080, 5.56MM BLANK, BOX METAL M2A1 (EA) (1)	A		72.45	6,280	0.455	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.3) A080, 5.56MM BLANK, PRODUCTION ENGINEERING			-	-	0.238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) A080, 5.56MM BLANK, QUALITY ASSURANCE			-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5) A080, 5.56MM BLANK, ACCEPTANCE TESTING			-	-	0.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) A080, CTG, 5.56MM BLANK			-	-	9.688	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) A131, CTG, 7.62MM 4 & 1 LINKED																				
5.1) A131, 7.62MM 4 & 1 LINKED, COMPLETE ROUND	A		1.75	24,259,671	42.473	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2) A131, 7.62MM 4 & 1 LINKED, PRODUCTION ENGINEERING			-	-	1.193	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.3) A131, 7.62MM 4 & 1 LINKED, QUALITY ASSURANCE			-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) A131, 7.62MM 4 & 1 LINKED,			-	-	0.221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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: 1508N / 02 / 1						P-1 Line Item Number / Title: 1000 / Small Arms Ammunition									Aggregated Items Title: Small Arms Ammunition					
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)
ACCEPTANCE TESTING																				
Subtotal: 5) A131, CTG, 7.62MM 4 & 1 LINKED			-	-	43.908	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) A143, CTG, 7.62MM BALL LINKED																				
6.1) A143, 7.62MM BALL LINKED, COMPLETE ROUND	A		0.52	31,106,961	16.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) A143, 7.62MM BALL LINKED, PRODUCTION ENGINEERING			-	-	0.305	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) A143, 7.62MM BALL LINKED, ACCEPTANCE TESTING			-	-	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) A143, 7.62MM BALL LINKED, QUALITY ASSURANCE	A		-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) A143, CTG, 7.62MM BALL LINKED			-	-	16.363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) A363, CTG, 9MM BALL																				
7.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		0.15	80,275,698	12.360	0.18	18,861,111	3.395	-	-	-	-	-	-	-	-	-	-	-	-
7.2) A363, 9MM BALL, BOX METAL M2A2 (EA) (1) ^(†)	A		9.69	44,175	0.428	12.55	21,000	0.264	-	-	-	-	-	-	-	-	-	-	-	-
7.3) A363, 9MM BALL, BOX METAL M2A2	A		-	-	0.383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.4) A363, 9MM BALL, PRODUCTION ENGINEERING			-	-	0.643	-	-	0.225	-	-	-	-	-	-	-	-	-	-	-	-
7.5) A363, 9MM BALL, QUALITY ASSURANCE			-	-	0.008	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
7.6) A363, 9MM BALL, ACCEPTANCE TESTING	A		-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 7) A363, CTG, 9MM BALL			-	-	13.842	-	-	3.887	-	-	-	-	-	-	-	-	-	-	-	-
8) A483, CTG CAL .45 MATCH GRADE																				
8.1) A483, CAL .45 MATCH GRADE,	A		-	-	0.223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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: 1508N / 02 / 1									P-1 Line Item Number / Title: 1000 / Small Arms Ammunition							Aggregated Items Title: Small Arms Ammunition					
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)	
LOAD, ASSEMBLE AND PACK (LAP)																					
8.2) A483, CAL .45 MATCH GRADE, BOX METAL M2A2	A		-	-	0.009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8.3) A483, CAL .45 MATCH GRADE, PRODUCTION ENGINEERING			-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8.4) A483, CAL .45 MATCH GRADE, QUALITY ASSURANCE			-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 8) A483, CTG CAL .45 MATCH GRADE			-	-	0.235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9) A552, CTG, CAL .50 GRADE AC BALL																					
9.1) A552, CAL .50 GRADE AC BALL, LOAD, ASSEMBLE AND PACK (LAP)	A		8.92	306,618	2.735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9.2) A552, CAL .50 GRADE AC BALL, BOX METAL M2A2	A		57.45	2,576	0.148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9.3) A552, CAL .50 GRADE AC BALL, , PRODUCTION ENGINEERING			-	-	0.049	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 9) A552, CTG, CAL .50 GRADE AC BALL			-	-	2.932	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10) A576, CTG, CAL .50 4 & 1 LINKED																					
10.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP) ^(f)	A		10.96	7,495,997	82.157	1.99	243,500	0.485	-	-	-	-	-	-	-	-	-	-	-	-	
10.2) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A1 (1)	A		-	-	2.325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10.3) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2 ^(f)	A		17.59	102,955	1.811	12.55	2,461	0.031	-	-	-	-	-	-	-	-	-	-	-	-	
10.4) A576, CAL. 50 4 & 1 LINKED, PRODUCTION ENGINEERING			-	-	2.741	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	-	
10.5) A576, CAL. 50 4 & 1			-	-	0.031	-	-	0.007	-	-	-	-	-	-	-	-	-	-	-	-	

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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: 1508N / 02 / 1								P-1 Line Item Number / Title: 1000 / Small Arms Ammunition								Aggregated Items Title: Small Arms Ammunition				
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)
LINKED, QUALITY ASSURANCE																				
10.6) A576, CAL. 50 4 & 1 LINKED, ACCEPTANCE TESTING			-	-	1.081	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 10) A576, CTG, CAL .50 4 & 1 LINKED			-	-	90.146	-	-	0.547	-	-	-	-	-	-	-	-	-	-	-	-
11) AA40, CTG, 5.56MM FRANGIBLE SNGL RD																				
11.1) AA40, 5.56MM FRANGIBLE, PRODUCTION ENGINEERING ^(†)	A		-	-	0.509	0.38	1,303,680	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 11) AA40, CTG, 5.56MM FRANGIBLE SNGL RD			-	-	0.509	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
12) AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE)																				
12.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND ^(†)	A		-	-	-	0.63	6,012,698	3.788	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 12) AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE)			-	-	0.000	-	-	3.788	-	-	-	-	-	-	-	-	-	-	-	-
13) AB06, CTG, 5.56MM SESAMS SINGLE RND (RED)																				
13.1) AB06, 5.56MM SESAMS SINGLE RND (RED), COMPLETE ROUND ^(†)	A		-	-	-	0.65	4,126,153	2.682	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 13) AB06, CTG, 5.56MM SESAMS SINGLE RND (RED)			-	-	0.000	-	-	2.682	-	-	-	-	-	-	-	-	-	-	-	-
14) AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED																				
14.1) AB64, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND ^(†)	A		-	-	7.305	4.52	905,309	4.092	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 14) AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED			-	-	7.305	-	-	4.092	-	-	-	-	-	-	-	-	-	-	-	-
15) AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED																				
15.1) AB65, CAL .50 BALL REDUCED RANGE LINKED, COMPLETE ROUND ^(†)	A		-	-	-	4.15	512,771	2.128	-	-	-	-	-	-	-	-	-	-	-	-

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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: 1508N / 02 / 1									P-1 Line Item Number / Title: 1000 / Small Arms Ammunition							Aggregated Items Title: Small Arms Ammunition					
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: 15) AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED			-	-	0.000	-	-	2.128	-	-	-	-	-	-	-	-	-	-	-	-	
16) AC07 (formerly AXX3), CTG, 9MM BLANK SINGLE ROUND																					
16.1) AC07 (formerly AXX3), 9MM BLANK, SINGLE ROUND	A		3.04	188,461	0.573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16.2) AC07 (formerly AXX3), CTG, 9MM BLANK SAFETY TEST	A		-	-	-	-	-	0.177	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 16) AC07 (formerly AXX3), CTG, 9MM BLANK SINGLE ROUND			-	-	0.573	-	-	0.177	-	-	-	-	-	-	-	-	-	-	-	-	
17) PRIOR YEARS CUMULATIVE FUNDING																					
17.1) PRIOR YEARS CUMULATIVE FUNDING	A		-	-	25.898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 17) PRIOR YEARS CUMULATIVE FUNDING			-	-	25.898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	371.552	-	-	31.827	-	-	-	-	-	-	-	-	-	-	-	-	

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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					Aggregated Items: Small Arms Ammunition			
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) A059, CTG, 5.56MM BALL												
1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1)(f)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL Rock Island Arsenal, IL	Mar 2017	Oct 2017	75,505,100	0.19	Y		
1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1)(f)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2017	Oct 2017	58,125,000	0.20	Y		
1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1)(f)	✓	2017 (1)	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Aug 2017	Mar 2018	5,633,310	0.20	Y		
1.4) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2)		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2016	Sep 2016	91,300	10.93	Y		
1.4) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2)		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2017	Jul 2017	64,223	12.55	Y		
1.4) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2)	✓	2017 (2)	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Aug 2017	Oct 2017	6,190	12.55	Y		
7) A363, CTG, 9MM BALL												
7.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP)		2017	OLIN CORPORATION / ILLINOIS	C / FFP	Rock Island Arsenal, IL	Mar 2017	Mar 2018	18,861,111	0.18	Y		
7.2) A363, 9MM BALL, BOX METAL M2A2 (EA) (1)		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2017	Jul 2017	21,000	12.55	Y		
10) A576, CTG, CAL .50 4 & 1 LINKED												
10.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2015	Sep 2016	249,900	1.77	Y		
10.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)	✓	2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2015	Sep 2016	3,389,097	1.77	Y		
10.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2016	Mar 2017	3,857,000	1.67	Y		
10.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2017	Mar 2018	243,500	1.99	Y		
10.3) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Jul 2016	Sep 2016	65,837	10.93	Y		
10.3) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2017	Jul 2017	2,461	12.55	Y		
11) AA40, CTG, 5.56MM FRANGIBLE SNGL RD												

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1000 / Small Arms Ammunition						Aggregated Items: Small Arms Ammunition			
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
11.1) AA40, 5.56MM FRANGIBLE, PRODUCTION ENGINEERING		2017	VISTA OUTDOOR SALES / ANOKA, MN	C / FFP	PICATINNY ARSENAL, NJ	Jun 2017	Jun 2018	1,303,680	0.38	Y		
12) AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE)												
12.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND		2017 ⁽³⁾	GENERAL DYNAMICS CANADA / CANADA	C / FFP	MCSC, QUANTICO, VA	Oct 2017	Apr 2018	6,012,698	0.63	Y		
13) AB06, CTG, 5.56MM SESAMS SINGLE RND (RED)												
13.1) AB06, 5.56MM SESAMS SINGLE RND (RED), COMPLETE ROUND		2017 ⁽⁴⁾	GENERAL DYNAMICS CANADA / CANADA	C / FFP	MCSC, QUANTICO, VA	Oct 2017	Apr 2018	4,126,153	0.65	Y		
14) AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED												
14.1) AB64, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND		2017 ⁽⁵⁾	TO BE SELECTED / TBD	C / FFP	NSWC CD, CRANE, IN	May 2018	Nov 2018	905,309	4.52	Y		
15) AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED												
15.1) AB65, CAL .50 BALL REDUCED RANGE LINKED, COMPLETE ROUND		2017 ⁽⁶⁾	TO BE SELECTED / TBD	C / FFP	NSWC CD, CRANE, IN	May 2018	Nov 2018	512,771	4.15	Y		

(†) indicates the presence of a P-21

Footnotes:

- (1) Projected contract award slipped from Mar 2017 to Aug 2017, because the OCO funds were not released until June 2017.
- (2) Projected contract award slipped from May 2017 to Aug 2017, because the OCO funds were not released until June 2017.
- (3) Contract Award slipped from Sep 2017 to Oct 2017 due to contract negotiations exceeding the time initially projected.
- (4) Contract Award slipped from Sep 2017 to Oct 2017 due to contract negotiations exceeding the time initially projected.
- (5) Contract award slipped from Nov 2017 to May 2018 due to foerign vendor end user certificate delays.
- (6) Contract award slipped from Nov 2017 to May 2018 due to foreign vendor end user certificate delays.

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1000 / Small Arms Ammunition										Aggregated Items: Small Arms Ammunition														
Items <i>(Units in Millions, * = < 500)</i>								Fiscal Year 2015										Fiscal Year 2016														B A L A N C E		
O C O	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 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) A059, CTG, 5.56MM BALL																																		
1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1)																																		
Prior Years Deliveries: 35146740																																		
	33	2016	NAVY	75.505	.000	75.505																												75.505
	33	2017	NAVY	58.125	.000	58.125																												58.125
✓	33	2017	NAVY	5.633	.000	5.633																												5.633
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1000 / Small Arms Ammunition										Aggregated Items: Small Arms Ammunition													
Items <i>(Units in Millions, * = < 500)</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																
							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) A059, CTG, 5.56MM BALL																																	
1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1)																																	
Prior Years Deliveries: 35146740																																	
	33	2016	NAVY	75.505	.000	75.505						A -	-	-	-	-	-	-	6.292	6.292	6.292	6.292	6.292	6.292	6.292	6.292	6.292	6.292	6.292	6.292	6.292	.000	
	33	2017	NAVY	58.125	.000	58.125						A -	-	-	-	-	-	-	4.282	4.281	4.281	4.281	5.281	5.281	5.281	5.281	5.281	5.281	5.281	5.029	4.281	.000	
✓	33	2017	NAVY	5.633	.000	5.633											A -	-	-	-	-	-	-	-	.415	.415	.415	.415	.515	.515	.515	.515	2.428
							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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LI 1000 - Small Arms Ammunition

Navy

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Exhibit P-21, Production Schedule: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1000 / Small Arms Ammunition				Aggregated Items: Small Arms Ammunition			
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	ALLIANT TECH DBA (LCAAP) - INDEPENDENCE, MO	3,360,000	38,800,000	350,000,000	6	6	12	18	6	6	6	12

"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: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1050 / 40 MM, All Types					
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>	367.250	13.669	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	380.919
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	367.250	13.669	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	380.919
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	367.250	13.669	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	380.919
<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 family of 40mm cartridges consists of low velocity, single shot rounds, designed to be fired from the M203 and M32 grenade launchers, as well as high velocity linked rounds designed to be fired from the MK19, 40mm grenade machine gun. Cartridges fired from the M203 and M32 grenade launchers include signaling and marking rounds, a CS (o-chlorobenzamalono-nitrile) round, Target Practice Day/Night marker rounds, light Armor Piercing rounds, and High Explosive Dual Purpose (HEDP) rounds. Cartridges fired from the MK19 include linked Armor Piercing and HEDP rounds, as well as linked Target Practice, Day/Night marker training rounds.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1050 / 40 MM, All Types				
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 / 40 MM, All Types	P-5a, P-21			- / 367.250	- / 13.669	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 367.250	- / 13.669	- / 0.000	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

The funds in FY18 and out have been realigned to line item 1350.

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1050 / 40 MM, All Types						Item Number / Title [DODIC]: 1 / 40 MM, All Types							
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>)				367.250		13.669		0.000		0.000		0.000		0.000					
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Net Procurement (P-1) (<i>\$ in Millions</i>)				367.250		13.669		0.000		0.000		0.000		0.000					
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Total Obligation Authority (<i>\$ in Millions</i>)				367.250		13.669		0.000		0.000		0.000		0.000					
(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)
Hardware - B542-CTG, 40MM HEDP LNKD M430 Cost																			
Recurring Cost																			
1.1.1) B542, 40MM HEDP LNKD - LOAD, ASSEMBLE, AND PACK C1 ^(†)		34.25	4,399,596	150.671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.2) B542, 40MM HEDP LNKD - PRODUCTION ENGINEERING		-	-	4.189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	154.860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - B542-CTG, 40MM HEDP LNKD M430 Cost		-	-	154.860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - BA21-CTG, 40MM PRACTICE DAY/NIGHT MK281 MOD3 Cost																			
Recurring Cost																			
2.1.1) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK ^(†)		30.14	1,325,874	39.959	35.50	297,999	10.579	-	-	-	-	-	-	-	-	-	-	-	
2.1.2) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD3 - PRODUCTION ENGINEERING		-	-	0.268	-	-	0.080	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1050 / 40 MM, All Types						Item Number / Title [DODIC]: 1 / 40 MM, All Types						
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)
2.1.3) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD3 - QUALITY ASSURANCE	-	-	0.129	-	-	0.010	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	40.356	-	-	10.669	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - BA21-CTG, 40MM PRACTICE DAY/NIGHT MK281 MOD3 Cost	-	-	40.356	-	-	10.669	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - BA35-CTG 40MM PRACTICE DAY/NIGHT M1110 Cost																		
Recurring Cost																		
3.1.1) BA35, 40MM PRACTICE DAY/ NIGHT M1110 - LOAD, ASSEMBLE, AND PACK ^(†)	10.40	4,643,278	48.311	11.46	255,671	2.930	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) BA35, 40MM PRACTICE DAY/ NIGHT M1110 - PRODUCTION ENGINEERING	-	-	1.251	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-
3.1.3) BA35, 40MM PRACTICE DAY/NIGHT M1110 - QUALITY ASSURANCE	-	-	0.465	-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	50.027	-	-	3.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - BA35-CTG 40MM PRACTICE DAY/NIGHT M1110 Cost	-	-	50.027	-	-	3.000	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
4.1.1) PRIOR YEAR CUMULATIVE FUNDING	-	-	122.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	122.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost	-	-	122.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	367.250	-	-	13.669	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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LI 1050 - 40 MM, All Types
Navy

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1050 / 40 MM, All Types					Item Number / Title [DODIC]: 1 / 40 MM, All Types				
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
1.1.1) B542, 40MM HEDP LNKD - LOAD, ASSEMBLE, AND PACK C1 ^(†)		2015	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	ROCK ISLAND ARSENAL	Jun 2016	Dec 2018	123,572	45.95	Y		Mar 2016
2.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK ^(†)		2017 ⁽¹⁾	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	SS / IDIQ	MCSC, QUANTICO, VA	Mar 2018	Mar 2019	284,450	35.50	Y		Nov 2017
2.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK ^(†)	✓	2017 ⁽²⁾	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	SS / IDIQ	MCSC, QUANTICO, VA	Mar 2018	Mar 2019	13,549	35.50	Y		Nov 2017
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK ^(†)		2017	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	SS / IDIQ	MCSC, QUANTICO, VA	Aug 2017	Dec 2017	255,671	11.46	Y		Mar 2015

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ The PB-18 contract award date of Oct 2017 slipped to Mar 2018, due to procurement package documentation delays and modification to programmatic decisions.

⁽²⁾ The PB-18 contract award date of Oct 2017 slipped to Mar 2018, due to procurement package documentation delays and modification to programmatic decisions.

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1050 / 40 MM, All Types										Item Number / Title [DODIC]: 1 / 40 MM, All Types											
Cost Elements (Units in Thousands)							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														
							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
1.1.1) B542, 40MM HEDP LNKD - LOAD, ASSEMBLE, AND PACK C1																															
Prior Years Deliveries: 4276024																															
	1	2015	NAVY	123.572	.000	123.572									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123.572	
2.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK																															
Prior Years Deliveries: 1325874																															
	2	2017	NAVY	284.450	.000	284.450																								284.450	
✓	2	2017	NAVY	13.549	.000	13.549																								13.549	
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK																															
Prior Years Deliveries: 4643278																															
	3	2017	NAVY	255.671	.000	255.671																						A -	-	255.671	
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1050 / 40 MM, All Types													Item Number / Title [DODIC]: 1 / 40 MM, All Types										
Cost Elements <i>(Units in Thousands)</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														
							OC T	NO V	DE 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	NO V	DE 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			
1.1.1) B542, 40MM HEDP LNKD - LOAD, ASSEMBLE, AND PACK C1																																	
Prior Years Deliveries: 4276024																																	
	1	2015	NAVY	123.572	.000	123.572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.595	20.595	20.595	20.595	20.595	20.597			.000			
2.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK																																	
Prior Years Deliveries: 1325874																																	
	2	2017	NAVY	284.450	.000	284.450							A -	-	-	-	-	-	-	-	-	-	-	-	-	20.000	25.000	25.000	25.000	25.000	25.000	25.000	114.450
✓	2	2017	NAVY	13.549	.000	13.549							A -	-	-	-	-	-	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	1.549	.000
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK																																	
Prior Years Deliveries: 4643278																																	
	3	2017	NAVY	255.671	.000	255.671	-	-	30.000	60.000	60.000	60.000	45.671																			.000	
							OC T	NO V	DE 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	NO V	DE 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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LI 1050 - 40 MM, All Types
Navy

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Exhibit P-21, Production Schedule: PB 2019 Navy								Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1050 / 40 MM, All Types				Item Number / Title [DODIC]: 1 / 40 MM, All Types		

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	AMTEC CORPORATION - JANESVILLE, WI	20,000	175,000	275,000	6	6	19	25	6	6	17	23
2	AMERICAN RHEINMETALL MUNITIONS - CAMDEN, AR	50,000	200,000	360,000	6	6	12	18	6	6	12	18
3	AMERICAN RHEINMETALL MUNITIONS - CAMDEN, AR	50,000	200,000	360,000	6	10	12	22	6	10	3	13

"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: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1083 / 60 MM, All Types

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>	53.781	1.901	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	55.682
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	53.781	1.901	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	55.682
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	53.781	1.901	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	55.682
<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 family of 60mm mortar cartridges is designed to be fired from the M224 lightweight mortar system in support of Company sized Infantry maneuvers. The family of munitions consists of high explosive, smoke, illumination, and full range training practice rounds. The 60mm family of cartridges is used to provide close-in indirect fire support of ground troops at ranges of approximately 70 to 3,500 meters.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1083 / 60 MM, All Types				
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 / 60 MM, All Types	P-5a			- / 53.781	- / 1.901	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 53.781	- / 1.901	- / 0.000	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The funds in FY18 and out have been realigned to line item 1085.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1083 / 60 MM, All Types						Item Number / Title [DODIC]: 1 / 60 MM, All Types						
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>				53.781		1.901		0.000		0.000		0.000		0.000				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				53.781		1.901		0.000		0.000		0.000		0.000				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				53.781		1.901		0.000		0.000		0.000		0.000				
(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)
Hardware - BA15 CARTRIDGE, 60MM FULL RANGE PRACTICE Cost																		
Recurring Cost																		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	16.85	109,464	1.844	18.04	10,244	0.184	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) BA15 FUZE PRACTICE M775 ^(†)	18.28	112,692	2.060	20.45	10,366	0.211	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) BA15 SHELL BODY 60MM FRPC ^(†)	34.87	112,682	3.929	39.72	10,561	0.419	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) BA15 M702 IGNITION CARTRIDGE ^(†)	13.56	110,431	1.497	14.49	11,566	0.168	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) BA15 PROPELLANT CHARGE M235 ^(†)	9.15	450,719	4.122	12.67	42,232	0.535	-	-	-	-	-	-	-	-	-	-	-	-
1.1.6) BA15 FIN ASSEMBLY M27 ^(†)	6.98	112,626	0.786	7.89	10,191	0.080	-	-	-	-	-	-	-	-	-	-	-	-
1.1.7) BA15 PRODUCTION ENGINEERING	-	-	2.306	-	-	0.232	-	-	-	-	-	-	-	-	-	-	-	-
1.1.8) BA15 QUALITY ASSURANCE	-	-	0.037	-	-	0.043	-	-	-	-	-	-	-	-	-	-	-	-
1.1.9) BA15 ACCEPTANCE TESTING	-	-	1.016	-	-	0.029	-	-	-	-	-	-	-	-	-	-	-	-

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LI 1083 - 60 MM, All Types
Navy

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Exhibit P-5, Cost Analysis: PB 2019 Navy														Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1083 / 60 MM, All Types							Item Number / Title [DODIC]: 1 / 60 MM, All Types				
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)
Gross/Weapon System Cost	-	-	53.781	-	-	1.901	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Remarks: [Hardware] Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement. The data for contracts that have awarded has been updated to reflect actuals. (t) 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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1083 / 60 MM, All Types				Item Number / Title [DODIC]: 1 / 60 MM, All Types				
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
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2015 ⁽¹⁾	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / Camden AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Feb 2017	10,516	16.35	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)	✓	2015 ⁽²⁾	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / Camden AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Feb 2017	43,577	16.35	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2016 ⁽³⁾	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Dec 2015	Dec 2017	7,681	16.25	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2017 ⁽⁴⁾	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2017	Jun 2020	4,676	18.04	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)	✓	2017 ⁽⁵⁾	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2017	Jun 2020	5,568	18.04	Y		
1.1.2) BA15 FUZE PRACTICE M775		2015	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	10,831	18.45	Y		
1.1.2) BA15 FUZE PRACTICE M775	✓	2015	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	44,884	18.45	Y		
1.1.2) BA15 FUZE PRACTICE M775		2016	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2016	Nov 2017	7,911	19.61	Y		
1.1.2) BA15 FUZE PRACTICE M775		2017	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2017	Dec 2018	4,816	20.45	Y		
1.1.2) BA15 FUZE PRACTICE M775	✓	2017	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2017	Dec 2018	5,550	20.45	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC		2015	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	10,831	35.19	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC	✓	2015	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	44,884	35.19	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC		2016	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	7,911	35.69	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC		2017	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2017	Sep 2018	4,816	39.72	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC	✓	2017	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2017	Sep 2018	5,745	39.72	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE		2015	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	10,831	13.80	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE	✓	2015	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	44,884	13.80	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE		2016	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2016	Sep 2017	7,911	13.80	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE		2017	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	4,816	14.49	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE	✓	2017	NAMMO POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	6,750	14.49	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1083 / 60 MM, All Types					Item Number / Title [DODIC]: 1 / 60 MM, All Types				
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
1.1.5) BA15 PROPELLANT CHARGE M235		2015	AMERICAN ORDANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	43,325	9.05	Y		
1.1.5) BA15 PROPELLANT CHARGE M235	✓	2015	AMERICAN ORDANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	179,537	9.05	Y		
1.1.5) BA15 PROPELLANT CHARGE M235		2016	GENERAL DYNAMICS OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Sep 2016	Mar 2018	31,646	11.21	Y		
1.1.5) BA15 PROPELLANT CHARGE M235		2017 ⁽⁶⁾	GENERAL DYNAMICS OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2017	Feb 2019	19,265	12.67	Y		
1.1.5) BA15 PROPELLANT CHARGE M235	✓	2017 ⁽⁷⁾	GENERAL DYNAMICS OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2017	Feb 2019	22,967	12.67	Y		
1.1.6) BA15 FIN ASSEMBLY M27		2015	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	10,831	6.79	Y		
1.1.6) BA15 FIN ASSEMBLY M27	✓	2015	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	44,884	6.79	Y		
1.1.6) BA15 FIN ASSEMBLY M27		2016	Flexible Concepts / Elkhart, IN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	7,911	7.05	Y		
1.1.6) BA15 FIN ASSEMBLY M27		2017 ⁽⁸⁾	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2017	Jan 2018	4,816	7.89	Y		
1.1.6) BA15 FIN ASSEMBLY M27	✓	2017 ⁽⁹⁾	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2017	Jan 2018	5,375	7.89	Y		

Footnotes:

- ⁽¹⁾ Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement. The data for contracts that have awarded has been updated to reflect actuals.
- ⁽²⁾ Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement. The data for contracts that have awarded has been updated to reflect actuals.
- ⁽³⁾ Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement. The data for contracts that have awarded has been updated to reflect actuals.
- ⁽⁴⁾ Delayed availability of Army funding resulted in a two month slip in the Marine Corps' projected contract award from May to July 2017. Awarding along with Army will allow the Marine Corps to take advantage of economic order quantity savings.
- ⁽⁵⁾ Delayed availability of Army funding resulted in a two month slip in the Marine Corps' projected contract award from May to July 2017. Awarding along with Army will allow the Marine Corps to take advantage of economic order quantity savings.
- ⁽⁶⁾ Delayed availability of Army funding resulted in a three month slip in the Marine Corps' projected contract award from May to August 2017. Awarding along with Army will allow the Marine Corps to take advantage of economic order quantity savings.
- ⁽⁷⁾ Delayed availability of Army funding resulted in a three month slip in the Marine Corps' projected contract award from May to August 2017. Awarding along with Army will allow the Marine Corps to take advantage of economic order quantity savings.
- ⁽⁸⁾ Delayed availability of Army funding resulted in a two month slip in the Marine Corps' projected contract award from May to July 2017. Awarding along with Army will allow the Marine Corps to take advantage of economic order quantity savings.
- ⁽⁹⁾ Delayed availability of Army funding resulted in a two month slip in the Marine Corps' projected contract award from May to July 2017. Awarding along with Army will allow the Marine Corps to take advantage of economic order quantity savings.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1085 / Mortars					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	25.408	28.266	2.018	30.284	49.043	46.829	50.550	33.136	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	25.408	28.266	2.018	30.284	49.043	46.829	50.550	33.136	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	25.408	28.266	2.018	30.284	49.043	46.829	50.550	33.136	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: Beginning in FY18 this funding line represents a consolidation of ammunition line items by functional capability. The family of mortar cartridges includes all 60mm mortar cartridges and 81mm mortar cartridges which consist of high explosive, smoke, illumination and full range training practice rounds. The 60mm mortar cartridges are fired from the M224 lightweight mortar system to provide close-in indirect fire support of group troops at ranges of approximately 70 to 3,500 meters. The 81mm mortar cartridges are fired from the M252 medium weight mortar system to provide long-range indirect fire support to infantry units at ranges of approximately 100 to 6,000 meters. Funds prior to FY18 are contained in line items 1083 and 1091.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1085 / Mortars				
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 / 1085 Mortars	P-5a			- / 0.000	- / 0.000	- / 25.408	- / 28.266	- / 2.018	- / 30.284
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 25.408	- / 28.266	- / 2.018	- / 30.284
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
 FY 2019 Baseline funding will procure 60mm Full Range Training Practice Cartridges (DODIC BA15) and 81mm (DODIC C875) Full Range Practice Cartridges (FRPC) in support of baseline training munitions requirements for lightweight mortar systems. Additionally, FY 2019 Baseline funding supports procurement of 81MM High Explosive rounds (DODIC CA62).

OCO:
 FY19 OCO funding supports reset munitions expended in theater in support of Operation Inherent Resolve (OIR).

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1085 / Mortars						Item Number / Title [DODIC]: 1 / 1085 Mortars								
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			0.000			25.408			28.266			2.018			30.284		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000			0.000			25.408			28.266			2.018			30.284		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				0.000			0.000			25.408			28.266			2.018			30.284		
(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 - BA15 CARTRIDGE, 60MM FULL RANGE PRACTICE Cost																					
Recurring Cost																					
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP) ^(†)		-	-	-	-	-	-	17.96	63,528	1.141	18.56	21,049	0.391	-	-	-	18.56	21,049	0.391		
1.1.2) BA15 FUZE PRACTICE M775 ^(†)		-	-	-	-	-	-	21.56	52,173	1.124	21.98	21,680	0.477	-	-	-	21.98	21,680	0.477		
1.1.3) BA15 SHELL BODY 60MM FRPC ^(†)		-	-	-	-	-	-	44.00	66,103	2.909	37.19	21,680	0.806	-	-	-	37.19	21,680	0.806		
1.1.4) BA15 M702 IGNITION CARTRIDGE ^(†)		-	-	-	-	-	-	17.39	66,103	1.149	17.74	21,680	0.385	-	-	-	17.74	21,680	0.385		
1.1.5) BA15 PROPELLANT CHARGE M235 ^(†)		-	-	-	-	-	-	12.92	257,412	3.326	13.16	86,722	1.141	-	-	-	13.16	86,722	1.141		
1.1.6) BA15 FIN ASSEMBLY M27 ^(†)		-	-	-	-	-	-	7.99	66,103	0.528	8.16	21,680	0.177	-	-	-	8.16	21,680	0.177		
1.1.7) BA15 PRODUCTION ENGINEERING		-	-	-	-	-	-	-	-	0.445	-	-	0.308	-	-	-	-	-	0.308		
1.1.8) BA15 QUALITY ASSURANCE		-	-	-	-	-	-	-	-	0.212	-	-	0.036	-	-	-	-	-	0.036		
1.1.9) BA15 ACCEPTANCE TESTING		-	-	-	-	-	-	-	-	0.074	-	-	0.045	-	-	-	-	-	0.045		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1085 / Mortars						Item Number / Title [DODIC]: 1 / 1085 Mortars					
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)
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	10.908	-	-	3.766	-	-	-	-	-	3.766
Subtotal: Hardware - BA15 CARTRIDGE, 60MM FULL RANGE PRACTICE Cost	-	-	-	-	-	-	-	-	10.908	-	-	3.766	-	-	-	-	-	3.766
Hardware - CA62 CTG MORTAR 81MM HE Cost																		
Recurring Cost																		
2.1.1) CA62 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	-	-	-	-	-	-	-	-	-	258.16	26,368	6.807	-	-	-	258.16	26,368	6.807
2.1.2) CA62 FUZE PD, M935A1 ^(†)	-	-	-	-	-	-	-	-	-	266.17	27,159	7.229	-	-	-	266.17	27,159	7.229
2.1.3) CA62 SHELL BODY, 81MM HE ^(†)	-	-	-	-	-	-	-	-	-	81.60	27,159	2.216	-	-	-	81.60	27,159	2.216
2.1.4) CA62 IGN CTG M299 ^(†)	-	-	-	-	-	-	-	-	-	18.42	27,159	0.500	-	-	-	18.42	27,159	0.500
2.1.5) CA62 CHG PROP 81MM M220 ^(†)	-	-	-	-	-	-	-	-	-	13.26	108,636	1.441	-	-	-	13.26	108,636	1.441
2.1.6) CA62 FIN MORTAR CTG M24 ^(†)	-	-	-	-	-	-	-	-	-	16.91	27,159	0.459	-	-	-	16.91	27,159	0.459
2.1.7) CA62 PBXW-14 BULK EXPLOSIVE ^(†)	-	-	-	-	-	-	-	-	-	69.36	3,164	0.219	-	-	-	69.36	3,164	0.219
2.1.8) CA62 EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	-	-	-	-	-	-	27.59	110,745	3.055	-	-	-	27.59	110,745	3.055
2.1.9) CA62 PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	0.450	-	-	-	-	-	0.450
2.1.10) CA62 ACCEPTANCE TESTING	-	-	-	-	-	-	-	-	-	-	-	0.124	-	-	-	-	-	0.124
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	22.500	-	-	-	-	-	22.500
Subtotal: Hardware - CA62 CTG MORTAR 81MM HE Cost	-	-	-	-	-	-	-	-	-	-	-	22.500	-	-	-	-	-	22.500
Hardware - C875 CTG MORTAR 81MM FRPC Cost																		
Recurring Cost																		
3.1.1) C875 LOAD, ASSEMBLE AND PACK ^{(†) (1)}	-	-	-	-	-	-	42.00	62,314	2.617	42.84	8,964	0.384	42.84	9,636	0.413	42.84	18,600	0.797

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Exhibit P-5, Cost Analysis: PB 2019 Navy										Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1085 / Mortars					Item Number / Title [DODIC]: 1 / 1085 Mortars							

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)
3.1.2) C875 FUZE PRACTICE, M751 ^(†) (2)	-	-	-	-	-	-	21.56	64,184	1.384	22.00	9,233	0.203	22.00	9,925	0.218	22.00	19,158	0.421
3.1.3) C875 SHELL BODY, 81MM FRPC ^(†) (3)	-	-	-	-	-	-	50.00	64,184	3.209	44.59	9,233	0.412	44.59	9,925	0.443	44.59	19,158	0.855
3.1.4) C875 IGN CTG M299 ^(†) (4)	-	-	-	-	-	-	18.06	64,184	1.159	18.42	9,233	0.170	18.42	9,925	0.183	18.42	19,158	0.353
3.1.5) C875 CHG PROP 81MM M220 ^(†) (5)	-	-	-	-	-	-	16.08	256,734	4.128	13.26	36,932	0.490	13.26	39,700	0.526	13.26	76,632	1.016
3.1.6) C875 FIN MORTAR CTG M24 ^(†) (6)	-	-	-	-	-	-	16.59	64,184	1.065	16.91	9,233	0.156	16.91	9,925	0.168	16.91	19,158	0.324
3.1.7) C875 PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	0.570	-	-	0.123	-	-	-	-	-	0.123
3.1.8) C875 ACCEPTANCE TESTING	-	-	-	-	-	-	-	-	0.368	-	-	0.062	-	-	0.067	-	-	0.129
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	14.500	-	-	2.000	-	-	2.018	-	-	4.018
<i>Subtotal: Hardware - C875 CTG MORTAR 81MM FRPC Cost</i>	-	-	-	-	-	-	-	-	14.500	-	-	2.000	-	-	2.018	-	-	4.018
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	25.408	-	-	28.266	-	-	2.018	-	-	30.284

^(†) indicates the presence of a P-5a

Footnotes:

- ⁽¹⁾ FY19 unit cost estimates are based on the Army's FY19 pricing data received in December 2017.
- ⁽²⁾ FY19 unit cost estimates are based on the Army's FY19 pricing data received in December 2017.
- ⁽³⁾ FY19 unit cost estimates are based on the Army's FY19 pricing data received in December 2017.
- ⁽⁴⁾ FY19 unit cost estimates are based on the Army's FY19 pricing data received in December 2017.
- ⁽⁵⁾ FY19 unit cost estimates are based on the Army's FY19 pricing data received in December 2017.
- ⁽⁶⁾ FY19 unit cost estimates are based on the Army's FY19 pricing data received in December 2017.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1085 / Mortars					Item Number / Title [DODIC]: 1 / 1085 Mortars			
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
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2018	May 2020	55,528	17.96	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)	✓	2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2018	May 2020	8,000	17.96	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2019	May 2021	21,049	18.56	Y		
1.1.2) BA15 FUZE PRACTICE M775		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2018	Aug 2019	44,173	21.56	Y		
1.1.2) BA15 FUZE PRACTICE M775	✓	2018	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2018	Aug 2019	8,000	21.56	Y		
1.1.2) BA15 FUZE PRACTICE M775		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	21,680	21.98	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2018	Aug 2019	58,103	44.00	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC	✓	2018	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2018	Aug 2019	8,000	44.00	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	21,680	37.19	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	58,103	17.39	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE	✓	2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	8,000	17.39	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	21,680	17.74	Y		
1.1.5) BA15 PROPELLANT CHARGE M235		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	226,412	12.92	Y		
1.1.5) BA15 PROPELLANT CHARGE M235	✓	2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	31,000	12.92	Y		
1.1.5) BA15 PROPELLANT CHARGE M235		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	86,722	13.16	Y		
1.1.6) BA15 FIN ASSEMBLY M27		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	58,103	7.99	Y		
1.1.6) BA15 FIN ASSEMBLY M27	✓	2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	8,000	7.99	Y		
1.1.6) BA15 FIN ASSEMBLY M27		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND, ARSENAL IL	Mar 2019	Sep 2020	21,680	8.16	Y		
2.1.1) CA62 LOAD, ASSEMBLE AND PACK (LAP)		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	May 2019	May 2022	26,368	258.16	Y		
2.1.2) CA62 FUZE PD, M935A1		2019	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Nov 2020	27,159	266.17	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1085 / Mortars				Item Number / Title [DODIC]: 1 / 1085 Mortars				
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
2.1.3) CA62 SHELL BODY, 81MM HE		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	27,159	81.60	Y		
2.1.4) CA62 IGN CTG M299		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	27,159	18.42	Y		
2.1.5) CA62 CHG PROP 81MM M220		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	108,636	13.26	Y		
2.1.6) CA62 FIN MORTAR CTG M24		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	** NO PCO **	Mar 2019	Sep 2020	27,159	16.91	Y		
2.1.7) CA62 PBXW-14 BULK EXPLOSIVE		2019	BAE ORDNANCE SYSTEMS / KINDSPORT, TN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Nov 2020	3,164	69.36	Y		
2.1.8) CA62 EXPLOSIVE FILL IMX-104		2019	BAE ORDNANCE SYSTEMS / KINDSPORT, TN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2021	110,745	27.59	Y		
3.1.1) C875 LOAD, ASSEMBLE AND PACK		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2018	May 2020	62,314	42.00	Y		
3.1.1) C875 LOAD, ASSEMBLE AND PACK		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2019	May 2021	8,964	42.84	Y		
3.1.1) C875 LOAD, ASSEMBLE AND PACK	✓	2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2019	May 2021	9,636	42.84	Y		
3.1.2) C875 FUZE PRACTICE, M751		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	64,184	21.56	Y		
3.1.2) C875 FUZE PRACTICE, M751		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	9,233	22.00	Y		
3.1.2) C875 FUZE PRACTICE, M751	✓	2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	9,925	22.00	Y		
3.1.3) C875 SHELL BODY, 81MM FRPC		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2018	Sep 2019	64,184	50.00	Y		
3.1.3) C875 SHELL BODY, 81MM FRPC		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	9,233	44.59	Y		
3.1.3) C875 SHELL BODY, 81MM FRPC	✓	2019	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	9,925	44.59	Y		
3.1.4) C875 IGN CTG M299		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2018	Sep 2019	64,184	18.06	Y		
3.1.4) C875 IGN CTG M299		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	9,233	18.42	Y		
3.1.4) C875 IGN CTG M299	✓	2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	9,925	18.42	Y		
3.1.5) C875 CHG PROP 81MM M220		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2018	Sep 2019	256,734	16.08	Y		
3.1.5) C875 CHG PROP 81MM M220		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	36,932	13.26	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1085 / Mortars					Item Number / Title [DODIC]: 1 / 1085 Mortars			
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
3.1.5) C875 CHG PROP 81MM M220	✓	2019	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	39,700	13.26	Y		
3.1.6) C875 FIN MORTAR CTG M24		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2018	Sep 2019	64,184	16.59	Y		
3.1.6) C875 FIN MORTAR CTG M24		2019	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	9,233	16.91	Y		
3.1.6) C875 FIN MORTAR CTG M24	✓	2019	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	9,925	16.91	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1121 / 120 MM, All Types					
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>)	273.139	10.427	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	283.566
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	273.139	10.427	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	283.566
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	273.139	10.427	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	283.566
<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 120mm tank ammunition is fired from a M1A1 (Abrams) tank with a 120mm main armament smooth-bore M256 Cannon. It consists of a family of Kinetic Energy (KE) rounds, high explosive anti-tank (HEAT) rounds, Advanced Multi Purpose (AMP) High Explosive Multi Purpose with Tracer (HEMP-T), and Canister rounds. The 120mm tank ammunition also includes target practice rounds for use with the 120MM smooth-bore M256 Cannon. The Expeditionary Fire Support System (EFSS) is the principal indirect fire support 120mm mortar for Marine Expeditionary Units and vertical assault elements of a Ship-To-Objective Maneuver (STOM) force. The EFSS ammunition suite consists of high explosive, illumination, white phosphorous and a Precision Extended Range Munition (PERM) capable of successfully engaging a spectrum of potential point and area targets.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1121 / 120 MM, All Types				
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 / 120 MM, All Types	P-5a, P-21			- / 273.139	- / 10.427	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 273.139	- / 10.427	- / 0.000	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The funds in FY18 and out have been realigned to line item 1125.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy											Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1121 / 120 MM, All Types						Item Number / Title [DODIC]: 1 / 120 MM, All Types						
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>				273.139		10.427		0.000		0.000		0.000		0.000				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				273.139		10.427		0.000		0.000		0.000		0.000				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				273.139		10.427		0.000		0.000		0.000		0.000				
(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)
Hardware - CA45 120MM HIGH EXPLOSIVE CARTRIDGE M1101 Cost																		
Recurring Cost																		
1.1.1) CA45 COMPLETE ROUND ^(†)	2,922.26	9,081	26.537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	26.537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - CA45 120MM HIGH EXPLOSIVE CARTRIDGE M1101 Cost	-	-	26.537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CA03 120MM SMOKE WP M929 Cost																		
Recurring Cost																		
2.1.1) CA03 COMPLETE ROUND ^(†)	6,718.99	2,580	17.335	1,424.77	4,704	6.702	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) CA03 MCP	-	-	-	-	-	1.634	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) CA03 PRODUCTION ENGINEERING	-	-	-	-	-	0.061	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	17.335	-	-	8.397	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - CA03 120MM SMOKE WP M929 Cost	-	-	17.335	-	-	8.397	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CA57 CTG, 120MM Multi-Purpose-High Explosive (MP-HE) Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1121 / 120 MM, All Types						Item Number / Title [DODIC]: 1 / 120 MM, All Types					
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)
3.1.1) CA57 SYSTEM BUY ^(†)	9,594.43	503	4.826	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) CA57 ENGINEER SUPPORTING COSTS	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	4.827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - CA57 CTG, 120MM Multi-Purpose-High Explosive (MP-HE) Cost	-	-	4.827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CPRM PROJECTILE 120MM MORTAR PRECISION EXTENDED RANGE Cost																		
Recurring Cost																		
4.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ^(†)	-	-	-	22,012.00	90	1.981	-	-	-	-	-	-	-	-	-	-	-	-
4.1.2) PERM Engineering Support	-	-	-	-	-	0.049	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	2.030	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - CPRM PROJECTILE 120MM MORTAR PRECISION EXTENDED RANGE Cost	-	-	-	-	-	2.030	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
5.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	224.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	224.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost	-	-	224.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	273.139	-	-	10.427	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
(†) 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: 1508N / 02 / 1			P-1 Line Item Number / Title: 1121 / 120 MM, All Types						Item Number / Title [DODIC]: 1 / 120 MM, All Types			
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
1.1.1) CA45 COMPLETE ROUND ^(†)		2013	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Aug 2015	Feb 2017	4,499	2,789.90	Y		
1.1.1) CA45 COMPLETE ROUND ^(†)	✓	2013	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Aug 2015	Feb 2017	1,475	2,789.90	Y		
1.1.1) CA45 COMPLETE ROUND ^(†)		2014	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Aug 2015	Feb 2017	2,382	2,789.90	Y		
2.1.1) CA03 COMPLETE ROUND ^(†)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	JMC, ROCK ISLAND, IL	Mar 2018	Sep 2020	4,704	1,424.77	Y		
3.1.1) CA57 SYSTEM BUY		2016	RHEINMETALL / GERMANY	C / FFP	NSPS, EUROPE	Mar 2017	Mar 2018	503	9,594.43	Y		
4.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ^(†)		2017 ⁽¹⁾	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE / TUCSON, AZ	C / FPIF	MCSC, QUANTICO VA	Nov 2017	Nov 2018	90	22,012.00	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ FY17 PERM LRIP delivery order award date has been updated from August 2017 to November 2017 due to qualification delays. Delivery schedule has also been updated from an estimate of August 2018 to November 2018 to reflect actual leadtimes in accordance with initial contract award.

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Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1121 / 120 MM, All Types													Item Number / Title [DODIC]: 1 / 120 MM, All Types														
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2015												Fiscal Year 2016												B A L A N C E						
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 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							
1.1.1) CA45 COMPLETE ROUND																																					
Prior Years Deliveries: 725																																					
	1	2013	NAVY	4,499	0	4,499													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,499	
✓	1	2013	NAVY	1,475	0	1,475													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,475
	1	2014	NAVY	2,382	0	2,382													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,382
2.1.1) CA03 COMPLETE ROUND																																					
Prior Years Deliveries: 2580																																					
	2	2017	NAVY	4,704	0	4,704																											4,704				
4.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND)																																					
	3	2017	NAVY	90	0	90																											90				
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1121 / 120 MM, All Types										Item Number / Title [DODIC]: 1 / 120 MM, All Types														
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2017										Fiscal Year 2018													BALANCE				
OCC#	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP			
1.1.1) CA45 COMPLETE ROUND																																		
Prior Years Deliveries: 725																																		
	1	2013	NAVY	4,499	0	4,499	-	-	-	-	1,000	1,000	1,000	1,000	499																			0
✓	1	2013	NAVY	1,475	0	1,475	-	-	-	-	1,000	475																			0			
	1	2014	NAVY	2,382	0	2,382	-	-	-	-	1,000	1,000	382																			0		
2.1.1) CA03 COMPLETE ROUND																																		
Prior Years Deliveries: 2580																																		
	2	2017	NAVY	4,704	0	4,704														A -	-	-	-	-	-	-	-	-	-	-	-	4,704		
4.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND)																																		
	3	2017	NAVY	90	0	90														A -	-	-	-	-	-	-	-	-	-	-	-	-	90	
							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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LI 1121 - 120 MM, All Types
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Exhibit P-21, Production Schedule: PB 2019 Navy								Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1121 / 120 MM, All Types				Item Number / Title [DODIC]: 1 / 120 MM, All Types		

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	GENERAL DYNAMICS - ST. PETERSBURG, FL	1,800	12,000	24,000	0	0	12	12	0	0	12	12
2	PINE BLUFF ARSENAL - PINE BLUFF, AR	4,000	16,000	48,800	8	8	30	38	8	8	24	32
3	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE - TUCSON, AZ	500	11,000	33,000	6	6	11	17	6	6	11	17

"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: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1125 / Direct Support Munitions					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A				Other Related Program Elements: N/A					
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	65.400	63.664	0.632	64.296	143.112	135.331	160.115	148.566	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	65.400	63.664	0.632	64.296	143.112	135.331	160.115	148.566	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	65.400	63.664	0.632	64.296	143.112	135.331	160.115	148.566	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:
Beginning in FY18 this funding line represents a consolidation of ammunition line items by functional capability.

The shoulder launched rocket and 120mm munitions family are included in this line. The 120mm tank ammunition is fired from a M1A1 (Abrams) tank with a 120mm main armament smoothbore M256 Cannon. It consists of a suite of Kinetic Energy (KE), multi-purpose high explosive (MPHE), canister and high explosive anti-tank (HEAT) rounds. The 120mm tank ammunition also includes target practice rounds for use with the 120MM smooth bore M256 Cannon.

The family also includes 120mm smoothbore mortar ammunition to support pre-deployment training for the deploying Marine Expeditionary Units (MEUs). The 120mm smoothbore ammunition suite consists of high explosive, illumination and white phosphorous rounds fired out of the M298 mortar cannon. Previously the 120mm mortar ammunition procurements were to support the rifled Expeditionary Fire Support System (EFSS), however the EFSS program was cancelled effective 28 Nov 17.

The Shoulder-Launched Multipurpose Assault Weapon (SMAW) and Lightweight Assault Weapon (LAW) shoulder fired family of rockets provides lightweight weapons mainly employed against and optimized to defeat light armored vehicles and other hard targets at close combat ranges. They can be employed from an enclosure or the open battlefield as assault weapons against bunkers, field fortifications, structures and other hard-point positions. Additionally, training launchers and sub-caliber practice rockets that fully simulate firing are also included.

The highly versatile Carl-Gustaf system is a true multi-role, man-portable shoulder-fired weapon. The system offers various types of ammunition, ranging from armor penetration and anti-personnel, to ammunition for built-up areas as well as special features like smoke and illumination.

The funds prior to FY18 are contained in line items 1121 and 1471.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1125 / Direct Support Munitions				
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 / 120 MM, All Types	P-5a, P-21			- / 0.000	- / 0.000	- / 22.900	- / 0.000	- / 0.000	- / 0.000
P-5	2 / Rockets, All Types	P-5a, P-21			- / 0.000	- / 0.000	- / 42.500	- / 63.664	- / 0.632	- / 64.296
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 65.400	- / 63.664	- / 0.632	- / 64.296
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2019 baseline funding will procure several direct support munitions to include: 120mm smoothbore mortar ammunition to support the pre-deployment training for the deploying Marine Expeditionary Units (MEUs); the Shoulder Launched Multipurpose Assault Weapon (SMAW) rocket, 83mm Common Practice round (CP)(DODIC HX07), 84mm HE Rocket (AT4)(DODIC C995) and other variations of 84mm ammunition. The 7.62mm TR Cartridge (DODIC A254) will also be procured. OCO: FY 2019 OCO funding supports procurement of CA30, 84mm, Anti-Tank AT-4, Confined Space in support of Operation Inherent Resolve (OIR).										

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1125 / Direct Support Munitions						Item Number / Title [DODIC]: 1 / 120 MM, All Types								
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			0.000			22.900			0.000			0.000			0.000		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000			0.000			22.900			0.000			0.000			0.000		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				0.000			0.000			22.900			0.000			0.000			0.000		
(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)		
Hardware - CA49 CTG MORTAR, 120MM SMK WP M1103 Cost																					
Recurring Cost																					
1.1.1) CA49 Complete Round ^(†) (1)		-	-	0.000	-	-	0.000	7,500.00	1,492	11.190	-	-	0.000	-	-	0.000	-	-	0.000		
1.1.2) CA49 Engineering Support ⁽²⁾		-	-	0.000	-	-	0.000	-	-	0.004	-	-	0.000	-	-	0.000	-	-	0.000		
Subtotal: Recurring Cost		-	-	0.000	-	-	0.000	-	-	11.194	-	-	0.000	-	-	0.000	-	-	0.000		
Subtotal: Hardware - CA49 CTG MORTAR, 120MM SMK WP M1103 Cost		-	-	0.000	-	-	0.000	-	-	11.194	-	-	0.000	-	-	0.000	-	-	0.000		
Hardware - CPRM PROJECTILE 120MM MORTAR PRECISION EXTENDED RANGE Cost																					
Recurring Cost																					
3.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ^(†) (3)		-	-	0.000	-	-	0.000	25,670.95	456	11.706	-	-	0.000	-	-	0.000	-	-	0.000		
Subtotal: Recurring Cost		-	-	0.000	-	-	0.000	-	-	11.706	-	-	0.000	-	-	0.000	-	-	0.000		
Subtotal: Hardware - CPRM PROJECTILE 120MM MORTAR PRECISION EXTENDED RANGE Cost		-	-	0.000	-	-	0.000	-	-	11.706	-	-	0.000	-	-	0.000	-	-	0.000		
Gross/Weapon System Cost		-	-	0.000	-	-	0.000	-	-	22.900	-	-	0.000	-	-	0.000	-	-	0.000		

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Exhibit P-5, Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1125 / Direct Support Munitions	Item Number / Title [DODIC]: 1 / 120 MM, All Types
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(†) indicates the presence of a P-5a		
Footnotes: (1) CA49 is the rifled 120mm smoke round for EFSS. The EFSS program was cancelled effective 28 Nov 17. (2) EFSS program cancelled effective 28 Nov 17. No contract will be awarded for this item. (3) Precision Extended Range Munition (PERM) program was cancelled effective 28 Nov 17. FY19-FY23 funds zeroed out.		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1125 / Direct Support Munitions				Item Number / Title [DODIC]: 1 / 120 MM, All Types				

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
1.1.1) CA49 Complete Round		2018 ⁽⁴⁾	TBD / TBD	C / TBD	MCSC, QUANTICO VA	Sep 2018	Sep 2018	1,492	7,500.00	N	Sep 2018	
3.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ^(†)		2018 ⁽⁵⁾	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE / TUCSON, AZ	C / FPIF	MCSC, QUANTICO VA	Nov 2017	Nov 2018	456	25,670.95	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽⁴⁾ EFSS program cancelled effective 28 Nov 17. No contract will be awarded for this item.

⁽⁵⁾ PERM program cancelled effective 28 Nov 17 therefore there was no contract award and there will be no deliveries.

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1125 / Direct Support Munitions										Item Number / Title [DODIC]: 1 / 120 MM, All Types											
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
3.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ⁽³⁾																															
	1	2018	NAVY	456	0	456		A -	-	-	-	-	-	-	-	-	-	-	456												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: 1508N / 02 / 1					P-1 Line Item Number / Title: 1125 / Direct Support Munitions				Item Number / Title [DODIC]: 1 / 120 MM, All Types			
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	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE - TUCSON, AZ	500	11,000	33,000	6	6	11	17	6	6	11	17

"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-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1125 / Direct Support Munitions						Item Number / Title [DODIC]: 2 / Rockets, All Types						
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		0.000		42.500		63.664		0.632		64.296				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000		0.000		42.500		63.664		0.632		64.296				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				0.000		0.000		42.500		63.664		0.632		64.296				
(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 - HX07 ROCKET, 83MM HEAA PRACTICE Cost																		
Recurring Cost																		
3.1.1) HX07 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	3,543.93	11,877	42.091	3,939.14	5,077	19.999	-	-	0.000	3,939.14	5,077	19.999
3.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.409	-	-	0.002	-	-	0.000	-	-	0.002
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	42.500	-	-	20.001	-	-	0.000	-	-	20.001
Subtotal: Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost	-	-	0.000	-	-	0.000	-	-	42.500	-	-	20.001	-	-	0.000	-	-	20.001
Hardware - C995 ROCKET 84MM HE (AT-4) Cost																		
Recurring Cost																		
4.1.1) C995 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4,428.83	3,707	16.418	-	-	0.000	4,428.83	3,707	16.418
4.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.514	-	-	0.000	-	-	0.514
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	16.932	-	-	0.000	-	-	16.932
Subtotal: Hardware - C995 ROCKET 84MM HE (AT-4) Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	16.932	-	-	0.000	-	-	16.932
Hardware - CA30 ROCKET 84MM CONFINED SPACE (AT4) Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1125 / Direct Support Munitions						Item Number / Title [DODIC]: 2 / Rockets, All Types						
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)
5.1.1) CA30 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	4,428.83	142	0.629	4,428.83	142	0.629
5.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.003
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.632	-	-	0.632
Subtotal: Hardware - CA30 ROCKET 84MM CONFINED SPACE (AT4) Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.632	-	-	0.632
Hardware - A254 CTG 7.62MM TR ADAPTR CARL GUSTOFF Cost																		
Recurring Cost																		
6.1.1) A254 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	10.61	28,180	0.299	-	-	0.000	10.61	28,180	0.299
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.299	-	-	0.000	-	-	0.299
Subtotal: Hardware - A254 CTG 7.62MM TR ADAPTR CARL GUSTOFF Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.299	-	-	0.000	-	-	0.299
Hardware - C384 CTG, 84MM, ILLUM Cost																		
Recurring Cost																		
7.1.1) C384 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4,108.56	724	2.975	-	-	0.000	4,108.56	724	2.975
7.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.000	-	-	0.003
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.978	-	-	0.000	-	-	2.978
Subtotal: Hardware - C384 CTG, 84MM, ILLUM Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.978	-	-	0.000	-	-	2.978
Hardware - CA10 CTG 84MM TPT ROUND Cost																		
Recurring Cost																		
8.1.1) CA10 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	1,434.12	2,961	4.246	-	-	0.000	1,434.12	2,961	4.246
8.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.304	-	-	0.000	-	-	0.304
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	4.550	-	-	0.000	-	-	4.550
Subtotal: Hardware - CA10 CTG 84MM TPT ROUND Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	4.550	-	-	0.000	-	-	4.550
Hardware - CA20 CTG 84MM HE AT (HEAT) Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1125 / Direct Support Munitions						Item Number / Title [DODIC]: 2 / Rockets, All Types					
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)
Recurring Cost																		
9.1.1) CA20 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4,108.56	655	2.691	-	-	0.000	4,108.56	655	2.691
9.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.002	-	-	0.000	-	-	0.002
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.693	-	-	0.000	-	-	2.693
Subtotal: Hardware - CA20 CTG 84MM HE AT (HEAT) Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.693	-	-	0.000	-	-	2.693
Hardware - CA21 CTG 84MM HEDP Cost																		
Recurring Cost																		
10.1.1) COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4,171.80	539	2.249	-	-	0.000	4,171.80	539	2.249
10.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.162	-	-	0.000	-	-	0.162
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.411	-	-	0.000	-	-	2.411
Subtotal: Hardware - CA21 CTG 84MM HEDP Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.411	-	-	0.000	-	-	2.411
Hardware - CA27 CTG 84MM M3 HE FFV Cost																		
Recurring Cost																		
11.1.1) CA27 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4,108.56	570	2.342	-	-	0.000	4,108.56	570	2.342
11.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.168	-	-	0.000	-	-	0.168
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.510	-	-	0.000	-	-	2.510
Subtotal: Hardware - CA27 CTG 84MM M3 HE FFV Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.510	-	-	0.000	-	-	2.510
Hardware - CA36 CTG 84MM GUSTAF ILLUM Cost																		
Recurring Cost																		
12.1.1) CA36 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4,108.56	1,278	5.251	-	-	0.000	4,108.56	1,278	5.251
12.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.001	-	-	0.000	-	-	0.001
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	5.252	-	-	0.000	-	-	5.252

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1125 / Direct Support Munitions						Item Number / Title [DODIC]: 2 / Rockets, All Types						
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)
Subtotal: Hardware - CA36 CTG 84MM GUSTAF ILLUM Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	5.252	-	-	0.000	-	-	5.252
Hardware - CA41 CTG 84MM ANTI-STRUCTURE MUNITION Cost																		
Recurring Cost																		
13.1.1) CA41 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4,108.56	1,095	4.499	-	-	0.000	4,108.56	1,095	4.499
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	4.499	-	-	0.000	-	-	4.499
Subtotal: Hardware - CA41 CTG 84MM ANTI-STRUCTURE MUNITION Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	4.499	-	-	0.000	-	-	4.499
Hardware - CA51 CTG 84MM CARL GUSTAF MULTI-TARGET Cost																		
Recurring Cost																		
14.1.1) CA51 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4,108.56	374	1.537	-	-	0.000	4,108.56	374	1.537
14.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.002	-	-	0.000	-	-	0.002
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.539	-	-	0.000	-	-	1.539
Subtotal: Hardware - CA51 CTG 84MM CARL GUSTAF MULTI-TARGET Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.539	-	-	0.000	-	-	1.539
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	42.500	-	-	63.664	-	-	0.632	-	-	64.296
(†) indicates the presence of a P-5a																		

^(†) 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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1125 / Direct Support Munitions				Item Number / Title [DODIC]: 2 / Rockets, All Types				
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
3.1.1) HX07 COMPLETE ROUND ^(†)		2018	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Mar 2018	Jul 2020	11,544	3,543.93	Y		
3.1.1) HX07 COMPLETE ROUND ^(†)	✓	2018	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Mar 2018	Jul 2020	333	3,543.93	Y		
3.1.1) HX07 COMPLETE ROUND ^(†)		2019	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Mar 2019	Jul 2021	5,077	3,939.14	Y		
4.1.1) C995 COMPLETE ROUND ^(†)		2019	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	Apr 2019	Apr 2020	3,707	4,428.83	Y		
5.1.1) CA30 COMPLETE ROUND	✓	2019	TO BE SELECTED / TBD	C / FFP	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	142	4,428.83	Y		
6.1.1) A254 COMPLETE ROUND		2019	TBD / TBD	C / TBD	PICATINNY ARSENAL, NJ	Mar 2019	Mar 2020	28,180	10.61	Y		
7.1.1) C384 COMPLETE ROUND		2019	SAAB DYNAMAMICS AB / KARLSKOOGA, SWEDEN	C / FFP	PICATINNY ARSENAL, NJ	May 2019	Aug 2020	724	4,108.56	Y		
8.1.1) CA10 COMPLETE ROUND		2019	SAAB DYNAMAMICS AB / KARLSKOOGA, SWEDEN	C / FFP	PICATINNY ARSENAL, NJ	Mar 2019	Mar 2020	2,961	1,434.12	Y		
9.1.1) CA20 COMPLETE ROUND		2019	SAAB DYNAMAMICS AB / KARLSKOOGA, SWEDEN	C / FFP	PICATINNY ARSENAL, NJ	May 2019	Aug 2020	655	4,108.56	Y		
10.1.1) COMPLETE ROUND		2019	SAAB DYNAMAMICS AB / KARLSKOOGA, SWEDEN	C / FFP	PICATINNY ARSENAL, NJ	Mar 2019	Mar 2020	539	4,171.80	Y		
11.1.1) CA27 COMPLETE ROUND		2019	SAAB DYNAMAMICS AB / KARLSKOOGA, SWEDEN	C / FFP	PICATINNY ARSENAL, NJ	May 2019	Aug 2020	570	4,108.56	Y		
12.1.1) CA36 COMPLETE ROUND		2019	SAAB DYNAMAMICS AB / KARLSKOOGA, SWEDEN	C / FFP	PICATINNY ARSENAL, NJ	May 2019	Aug 2020	1,278	4,108.56	Y		
13.1.1) CA41 COMPLETE ROUND		2019	SAAB DYNAMAMICS AB / KARLSKOOGA, SWEDEN	C / FFP	PICATINNY ARSENAL, NJ	May 2019	Aug 2020	1,095	4,108.56	Y		
14.1.1) CA51 COMPLETE ROUND		2019	SAAB DYNAMAMICS AB / KARLSKOOGA, SWEDEN	C / FFP	PICATINNY ARSENAL, NJ	May 2019	Aug 2020	374	4,108.56	Y		
^(†) indicates the presence of a P-21												

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1125 / Direct Support Munitions										Item Number / Title [DODIC]: 2 / Rockets, All Types																		
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2018										Fiscal Year 2019													B A L A N C E								
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019																					
							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							
3.1.1) HX07 COMPLETE ROUND																																						
	1	2018	NAVY	11.544 (6)	.000	11.544						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.544						
✓	1	2018	NAVY	.333 ⁽⁷⁾	.000	.333						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.333						
	1	2019	NAVY	5.077 (8)	.000	5.077																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	5.077		
4.1.1) C995 COMPLETE ROUND																																						
	2	2019	NAVY	3.707	.000	3.707																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.707
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1125 / Direct Support Munitions										Item Number / Title [DODIC]: 2 / Rockets, All Types															
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2020										Fiscal Year 2021													BALANCE					
OCCO	MFR#	FY	SERVICE	PROCQTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT				Calendar Year 2020										Calendar Year 2021															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP				
3.1.1) HX07 COMPLETE ROUND																																			
	1	2018	NAVY	11.544 ⁽⁶⁾	.000	11.544	-	-	-	-	-	-	-	-	-	1.047	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	.037				.000			
✓	1	2018	NAVY	.333 ⁽⁷⁾	.000	.333	-	-	-	-	-	-	-	-	-	.225	.108																.000		
	1	2019	NAVY	5.077 ⁽⁸⁾	.000	5.077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.010	1.010	1.010	2.047		
4.1.1) C995 COMPLETE ROUND																																			
	2	2019	NAVY	3.707	.000	3.707	-	-	-	-	-	-	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.333	.224											.000
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1125 / Direct Support Munitions										Item Number / Title [DODIC]: 2 / Rockets, All Types														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022										Fiscal Year 2023										BALANCE							
OCCO	MFR#	FY	SERVICE	PROCQTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP			
3.1.1) HX07 COMPLETE ROUND																																		
	1	2018	NAVY	11.544 ⁽⁶⁾	11.544	.000																											.000	
✓	1	2018	NAVY	.333 ⁽⁷⁾	.333	.000																											.000	
	1	2019	NAVY	5.077 ⁽⁸⁾	3.030	2.047	1.010	1.037																										.000
4.1.1) C995 COMPLETE ROUND																																		
	2	2019	NAVY	3.707	3.707	.000																											.000	
							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: 1508N / 02 / 1					P-1 Line Item Number / Title: 1125 / Direct Support Munitions				Item Number / Title [DODIC]: 2 / Rockets, All Types			
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	NAMMO Talley Defense Systems - Mesa, AZ	1,000	2,500	12,000	8	8	31	39	6	6	28	34
2	TBD - TBD	1,000	2,500	10,000	6	6	12	18	6	6	12	18

"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:

⁽⁶⁾ FY 2018 is an option year on an existing contract and is likely to award earlier than stated.

⁽⁷⁾ FY 2018 is an option year on an existing contract and is likely to award earlier than stated.

⁽⁸⁾ FY 2018 is an option year on an existing contract and is likely to award earlier than stated.

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

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition

P-1 Line Item Number / Title:
1350 / Infantry Weapons Ammunition

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ <i>in Millions</i>)	0.000	0.000	93.310	59.295	0.779	60.074	96.462	109.746	166.613	109.703	Continuing	Continuing
Less PY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ <i>in Millions</i>)	0.000	0.000	93.310	59.295	0.779	60.074	96.462	109.746	166.613	109.703	Continuing	Continuing
Plus CY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ <i>in Millions</i>)	0.000	0.000	93.310	59.295	0.779	60.074	96.462	109.746	166.613	109.703	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:

Beginning in FY18 this funding line represents a consolidation of ammunition line items by functional capability.

This line includes small arms ammunition and medium caliber ammunition.

Small arms ammunition is a cartridge or a family of cartridges intended to be used in various types of crew-served/mounted weapons, hand-held pistols, or shoulder fired rifles; ranging from .22 caliber to .50 caliber weapons. A small arms cartridge is an assembly consisting of a cartridge case, a primer, a quantity of propellant, and a bullet. Small arms ammunition consists primarily of 9mm ammunition; 5.56mm ammunition; 7.62mm ammunition, 12 gauge shotgun ammunition, .45 caliber ammunition and .50 caliber ammunition.

Medium caliber ammunition is a cartridge or family of cartridges larger than .50cal, but smaller than 60mm and supports a variety of crew-served/mounted weapons, hand-held grenade launchers, and Light Armored Vehicle weapon systems. Medium caliber ammunition consists primarily of 25mm and 40mm cartridges.

The funds prior to FY18 are contained in line items 1000, 1050 and 1388.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition				
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 / 40 MM, All Types	P-5a, P-21			- / 0.000	- / 0.000	- / 18.396	- / 7.275	- / 0.000	- / 7.275
P-5	2 / CTG 25 MM, All Types	P-5a			- / 0.000	- / 0.000	- / 3.285	- / 0.000	- / 0.000	- / 0.000
P-5	3 / Small Arms Ammunition	P-5a, P-21			- / 0.000	- / 0.000	- / 71.629	- / 52.020	- / 0.779	- / 52.799
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 93.310	- / 59.295	- / 0.779	- / 60.074
*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.										
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 \$9.8 million to account for the availability of prior year execution balances. FY 2019 baseline funding is required to replenish munitions projected to be expended by Marine forces during training, preparation and rehearsals for combat engagements. The .50 caliber reduced range ammunition will be procured to address operational requirements in an urban environment and the ability to train on ranges where 7.62mm ammunition can be live-fired. Funding will also support the procurement of 5.56mm marking rounds for simulated training in an urban environment, 9mm simulated training ammunition, 9mm blank single rounds and the Cartridge, 40mm Target Practice linked, Day/Night Marker, MK281 MOD3 (BA21). FY2019 baseline also includes funding in support of 40mm practice/training rounds in support of Marine forces training. OCO: FY 2019 OCO funding will be used to reset munitions expended in support of Operation Inherent Resolve (OIR). The fleet Marine Corps is fielding the Mk13 Mod7 Sniper Rifle to its snipers. OCO funding will procure the AB43, .300 caliber cartridge required to support this fielding decision.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition						Item Number / Title [DODIC]: 1 / 40 MM, All Types							
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		0.000		18.396		7.275		0.000		7.275					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000		0.000		18.396		7.275		0.000		7.275					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				0.000		0.000		18.396		7.275		0.000		7.275					
(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 - BA21, CTG, 40MM PRACTICE DAY/NIGHT MK281 MOD3 Cost																			
Recurring Cost																			
1.1.1) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK ^(†)		-	-	0.000	-	-	0.000	35.90	509,638	18.296	36.90	194,742	7.186	-	-	0.000	36.90	194,742	7.186
1.1.2) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD3 - PRODUCTION ENGINEERING		-	-	0.000	-	-	0.000	-	-	0.090	-	-	0.079	-	-	0.000	-	-	0.079
1.1.3) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD3 - QUALITY ASSURANCE		-	-	0.000	-	-	0.000	-	-	0.010	-	-	0.010	-	-	0.000	-	-	0.010
Subtotal: Recurring Cost		-	-	0.000	-	-	0.000	-	-	18.396	-	-	7.275	-	-	0.000	-	-	7.275
Subtotal: Hardware - BA21, CTG, 40MM PRACTICE DAY/NIGHT MK281 MOD3 Cost		-	-	0.000	-	-	0.000	-	-	18.396	-	-	7.275	-	-	0.000	-	-	7.275
Gross/Weapon System Cost		-	-	0.000	-	-	0.000	-	-	18.396	-	-	7.275	-	-	0.000	-	-	7.275
(†) 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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition				Item Number / Title [DODIC]: 1 / 40 MM, All Types				

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
1.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK ^(†)		2018	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	SS / IDIQ	MCSC, QUANTICO, VA	May 2018	May 2019	487,465	35.90	Y		Feb 2018
1.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK ^(†)	✓	2018	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	SS / IDIQ	MCSC, QUANTICO, VA	May 2018	May 2019	22,173	35.90	Y		Feb 2018
1.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK ^(†)		2019	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	SS / IDIQ	MCSC, QUANTICO, VA	Apr 2019	Apr 2020	194,742	36.90	Y		Jan 2019

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition										Item Number / Title [DODIC]: 1 / 40 MM, All Types																			
Cost Elements (Units in Thousands)							Fiscal Year 2018										Fiscal Year 2019													B A L A N C E									
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019																						
							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								
1.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK																																							
	1	2018	NAVY	487.465	.000	487.465								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.000	25.000	25.000	25.000	25.000	367.465				
✓	1	2018	NAVY	22.173	.000	22.173								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	12.173				
	1	2019	NAVY	194.742	.000	194.742																	A -	-	-	-	-	-											194.742
							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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	1	2018	NAVY	487.465	120.000	367.465	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.0

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Exhibit P-21, Production Schedule: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition				Item Number / Title [DODIC]: 1 / 40 MM, All Types			
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	AMERICAN RHEINMETALL MUNITIONS - CAMDEN, AR	50,000	200,000	360,000	6	6	12	18	6	6	12	18
"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-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition						Item Number / Title [DODIC]: 2 / CTG 25 MM, All Types						
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		0.000		3.285		0.000		0.000		0.000				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000		0.000		3.285		0.000		0.000		0.000				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				0.000		0.000		3.285		0.000		0.000		0.000				
(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)
Hardware - A940, CTG, 25MM TPDS-T LINKED M910 Cost																		
Recurring Cost																		
1.1.1) A940 - CTG, 25MM TPDS-T LINKED M910 - LOAD, ASSEMBLE, AND PACK ^(†)	-	-	0.000	-	-	0.000	51.43	60,567	3.115	-	-	0.000	-	-	0.000	-	-	0.000
1.1.2) A940 - CTG, 25MM TPDS-T LINKED M910 - CONTAINER PA125 ^(†)	-	-	0.000	-	-	0.000	81.19	2,047	0.166	-	-	0.000	-	-	0.000	-	-	0.000
1.1.3) A940 - CTG, 25MM TPDS-T LINKED M910 - PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.002	-	-	0.000	-	-	0.000	-	-	0.000
1.1.4) A940 - CTG, 25MM TPDS-T LINKED M910 - QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.002	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	3.285	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - A940, CTG, 25MM TPDS-T LINKED M910 Cost	-	-	0.000	-	-	0.000	-	-	3.285	-	-	0.000	-	-	0.000	-	-	0.000
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	3.285	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-5, Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition	Item Number / Title [DODIC]: 2 / CTG 25 MM, All Types
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

(†) 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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition				Item Number / Title [DODIC]: 2 / CTG 25 MM, All Types				
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
1.1.1) A940 - CTG, 25MM TPDS-T LINKED M910 - LOAD, ASSEMBLE, AND PACK		2018 ⁽¹⁾	GOVERNMENT FURNISHED MATERIAL / ROCK ISLAND ARSENAL,IL	MIPR	N/A	Jan 2018	Apr 2018	60,567	51.43	Y		
1.1.2) A940 - CTG, 25MM TPDS- T LINKED M910 - CONTAINER PA125		2018 ⁽²⁾	GOVERNMENT FURNISHED MATERIAL / ROCK ISLAND ARSENAL,IL	MIPR	N/A	Jan 2018	Apr 2018	2,047	81.19	Y		

Footnotes:

- ⁽¹⁾ The A940, Cartridge, 25mm Target Practice M910, Linked is being purchased from existing Army stockpile.
- ⁽²⁾ The A940, Cartridge, 25mm Target Practice, Linked Container is being purchased from existing Army stockpile.

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition							Item Number / Title [DODIC]: 3 / Small Arms Ammunition							
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			0.000			71.629			52.020			0.779			52.799		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000			0.000			71.629			52.020			0.779			52.799		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				0.000			0.000			71.629			52.020			0.779			52.799		
(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 - A059, CTG, 5.56MM BALL Cost																					
Recurring Cost																					
4.1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) ^(†)		-	-	0.000	-	-	0.000	0.24	149,632K	35.912	0.24	86,996,382	20.879	-	-	0.000	0.24	86,996,382	20.879		
4.1.2) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2) ^(†)		-	-	0.000	-	-	0.000	13.67	174,702	2.388	14.06	104,050	1.463	-	-	0.000	14.06	104,050	1.463		
4.1.3) A059, 5.56MM BALL, PRODUCTION ENGINEERING		-	-	0.000	-	-	0.000	-	-	1.411	-	-	0.729	-	-	0.000	-	-	0.729		
4.1.4) A059, 5.56MM BALL, QUALITY ASSURANCE		-	-	0.000	-	-	0.000	-	-	0.009	-	-	0.008	-	-	0.000	-	-	0.008		
4.1.5) A059, 5.56MM BALL, ACCEPTANCE TESTING		-	-	0.000	-	-	0.000	-	-	0.042	-	-	0.037	-	-	0.000	-	-	0.037		
Subtotal: Recurring Cost		-	-	0.000	-	-	0.000	-	-	39.762	-	-	23.116	-	-	0.000	-	-	23.116		
Subtotal: Hardware - A059, CTG, 5.56MM BALL Cost		-	-	0.000	-	-	0.000	-	-	39.762	-	-	23.116	-	-	0.000	-	-	23.116		
Hardware - A260, CTG, 9MM JACKET HOLLOW POINT Cost																					
Recurring Cost																					
6.1.1) A260, CTG, 9MM JACKETED HOLLOW POINT,		-	-	0.000	-	-	0.000	-	-	0.000	0.24	1,043,000	0.250	-	-	0.000	0.24	1,043,000	0.250		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition						Item Number / Title [DODIC]: 3 / Small Arms Ammunition					
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)
COMPLETE ROUND ^(†)																		
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.250	-	-	0.000	-	-	0.250
Subtotal: Hardware - A260, CTG, 9MM JACKET HOLLOW POINT Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.250	-	-	0.000	-	-	0.250
Hardware - A363, CTG, 9MM BALL Cost																		
Recurring Cost																		
7.1.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP) ^(†)	-	-	0.000	-	-	0.000	0.17	1,382,800	0.239	0.18	1,360,544	0.240	-	-	0.000	0.18	1,360,544	0.240
7.1.2) A363, 9MM BALL, BOX METAL M2A2 (EA) (1)	-	-	0.000	-	-	0.000	13.67	1,397	0.019	13.94	1,374	0.019	-	-	0.000	13.94	1,374	0.019
7.1.3) A363, 9MM BALL, PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.030	-	-	0.031	-	-	0.000	-	-	0.031
7.1.4) A363, 9MM BALL, QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.001	-	-	0.001	-	-	0.000	-	-	0.001
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.289	-	-	0.291	-	-	0.000	-	-	0.291
Subtotal: Hardware - A363, CTG, 9MM BALL Cost	-	-	0.000	-	-	0.000	-	-	0.289	-	-	0.291	-	-	0.000	-	-	0.291
Hardware - A555, CAL .50 BALL M33 LINKED Cost																		
Recurring Cost																		
8.1.1) A555, CAL .50 BALL M33 LINKED, LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	1.86	1,361,993	2.533	-	-	0.000	1.86	1,361,993	2.533
8.1.2) A555, CAL .50 BALL M33 LINKED, BOX METAL M2A2 ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	14.06	13,425	0.189	-	-	0.000	14.06	13,425	0.189
8.1.3) A555, CAL .50 BALL M33 LINKED, PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.128	-	-	0.000	-	-	0.128
8.1.4) A555, CAL .50 BALL M33 LINKED, QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.001	-	-	0.000	-	-	0.001

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition						Item Number / Title [DODIC]: 3 / Small Arms Ammunition					
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)
8.1.5) A555, CAL .50 BALL M33 LINKED, ACCEPTANCE TESTING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.002	-	-	0.000	-	-	0.002
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.853	-	-	0.000	-	-	2.853
Subtotal: Hardware - A555, CAL .50 BALL M33 LINKED Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.853	-	-	0.000	-	-	2.853
Hardware - A576, CTG, CAL .50 4 & 1 LINKED Cost																		
Recurring Cost																		
9.1.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	-	-	0.000	-	-	0.000	1.98	134,011	0.265	1.98	134,181	0.266	-	-	0.000	1.98	134,181	0.266
9.1.2) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2 ^(†)	-	-	0.000	-	-	0.000	13.67	1,367	0.019	13.94	1,369	0.019	-	-	0.000	13.94	1,369	0.019
9.1.3) A576, CAL. 50 4 & 1 LINKED, PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.013	-	-	0.013	-	-	0.000	-	-	0.013
9.1.4) A576, CAL. 50 4 & 1 LINKED, ACCEPTANCE TESTING	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.002	-	-	0.000	-	-	0.002
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.300	-	-	0.300	-	-	0.000	-	-	0.300
Subtotal: Hardware - A576, CTG, CAL .50 4 & 1 LINKED Cost	-	-	0.000	-	-	0.000	-	-	0.300	-	-	0.300	-	-	0.000	-	-	0.300
Hardware - AA40, CTG, 5.56MM FRANGIBLE SNGL RD Cost																		
Recurring Cost																		
11.1.1) AA40, 5.56MM FRANGIBLE, COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	0.45	2,198,306	0.996	-	-	0.000	0.45	2,198,306	0.996
11.1.3) AA40, 5.56MM FRANGIBLE, QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.004	-	-	0.000	-	-	0.004
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.000	-	-	0.000	-	-	1.000

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition						Item Number / Title [DODIC]: 3 / Small Arms Ammunition						
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)
Subtotal: Hardware - AA40, CTG, 5.56MM FRANGIBLE SNGL RD Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.000	-	-	0.000	-	-	1.000
Hardware - AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE) Cost																		
Recurring Cost																		
14.1.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	0.65	5,896,922	3.828	0.68	5,682,090	3.873	-	-	0.000	0.68	5,682,090	3.873
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	3.828	-	-	3.873	-	-	0.000	-	-	3.873
Subtotal: Hardware - AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE) Cost	-	-	0.000	-	-	0.000	-	-	3.828	-	-	3.873	-	-	0.000	-	-	3.873
Hardware - AB06, CTG, 5.56MM SESAMS SINGLE RND (RED) Cost																		
Recurring Cost																		
15.1.1) AB06, 5.56MM SESAMS SINGLE RND (RED), COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	0.67	4,025,373	2.706	0.68	3,995,714	2.734	-	-	0.000	0.68	3,995,714	2.734
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	2.706	-	-	2.734	-	-	0.000	-	-	2.734
Subtotal: Hardware - AB06, CTG, 5.56MM SESAMS SINGLE RND (RED) Cost	-	-	0.000	-	-	0.000	-	-	2.706	-	-	2.734	-	-	0.000	-	-	2.734
Hardware - AB43, CTG, CAL .300 WINCHESTER MAGNUM (WIN MAG) MATCH Cost																		
Recurring Cost																		
17.1.1) AB43, CAL .300 WIN MAG MATCH, COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	1.28	608,594	0.779	1.28	608,594	0.779
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.779	-	-	0.779
Subtotal: Hardware - AB43, CTG, CAL .300 WINCHESTER MAGNUM (WIN MAG) MATCH Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.779	-	-	0.779
Hardware - AB57, CTG, 5.56MM BALL M855A1 EPR Cost																		
Recurring Cost																		
18.1.1) AB57, CTG, 5.56MM BALL M855A1 EPR, LOAD,	-	-	0.000	-	-	0.000	-	-	0.000	0.30	14,875,950	4.471	-	-	0.000	0.30	14,875,950	4.471

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition						Item Number / Title [DODIC]: 3 / Small Arms Ammunition						
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)
ASSEMBLE, AND PACK ^(†)																		
18.1.2) AB57, CTG 5.56 MM BALL EPR, METAL BOX M2A2 ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	14.06	17,145	0.241	-	-	0.000	14.06	17,145	0.241
18.1.3) AB57, CTG 5.56 MM BALL EPR, PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.286	-	-	0.000	-	-	0.286
18.1.4) AB57, CTG 5.56 MM BALL EPR, QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.002	-	-	0.000	-	-	0.002
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	5.000	-	-	0.000	-	-	5.000
Subtotal: Hardware - AB57, CTG, 5.56MM BALL M855A1 EPR Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	5.000	-	-	0.000	-	-	5.000
Hardware - AC15, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED Cost																		
Recurring Cost																		
19.1.1) AC15, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	4.80	1,957,500	9.396	-	-	0.000	4.80	1,957,500	9.396
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	9.396	-	-	0.000	-	-	9.396
Subtotal: Hardware - AC15, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	9.396	-	-	0.000	-	-	9.396
Hardware - AC14, CTG, CAL .50 BALL REDUCED RANGE LINKED Cost																		
Recurring Cost																		
20.1.1) AC14, CAL .50 BALL REDUCED RANGE LINKED, COMPLETE ROUND	-	-	0.000	-	-	0.000	-	-	0.000	4.40	475,227	2.091	-	-	0.000	4.40	475,227	2.091
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.091	-	-	0.000	-	-	2.091
Subtotal: Hardware - AC14, CTG, CAL .50 BALL REDUCED RANGE LINKED Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.091	-	-	0.000	-	-	2.091
Hardware - ANS1, CTG, 7.62x39MM BALL F/AK-47 (NON-STANDARD) Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition						Item Number / Title [DODIC]: 3 / Small Arms Ammunition						
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)
21.1.1) ANS1, 7.62x39MM BALL F/ AK-47, COMPLETE ROUND	-	-	0.000	-	-	0.000	-	-	0.000	0.67	1,492,537	1.000	-	-	0.000	0.67	1,492,537	1.000
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.000	-	-	0.000	-	-	1.000
Subtotal: Hardware - ANS1, CTG, 7.62x39MM BALL F/ AK-47 (NON-STANDARD) Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.000	-	-	0.000	-	-	1.000
Hardware - AC07 (formerly AXX3), CTG, 9MM BLANK SINGLE ROUND Cost																		
Recurring Cost																		
22.1.1) AC07 (formerly AXX3), 9MM BLANK, COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	2.78	27,712	0.077	2.84	40,851	0.116	-	-	0.000	2.84	40,851	0.116
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.077	-	-	0.116	-	-	0.000	-	-	0.116
Subtotal: Hardware - AC07 (formerly AXX3), CTG, 9MM BLANK SINGLE ROUND Cost	-	-	0.000	-	-	0.000	-	-	0.077	-	-	0.116	-	-	0.000	-	-	0.116
Hardware - AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED Cost																		
Recurring Cost																		
23.1.1) AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED ^(†)	-	-	0.000	-	-	0.000	4.66	3,507,511	16.345	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	16.345	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED Cost	-	-	0.000	-	-	0.000	-	-	16.345	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED Cost																		
Recurring Cost																		
24.1.1) AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED ^(†)	-	-	0.000	-	-	0.000	4.27	1,948,947	8.322	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	8.322	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED Cost	-	-	0.000	-	-	0.000	-	-	8.322	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-5, Cost Analysis: PB 2019 Navy										Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition					Item Number / Title [DODIC]: 3 / Small Arms Ammunition									
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)
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	71.629	-	-	52.020	-	-	0.779	-	-	52.799

(t) 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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition				Item Number / Title [DODIC]: 3 / Small Arms Ammunition				
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
4.1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1)(f)		2018	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL Rock Island Arsenal, IL	Mar 2018	Oct 2018	145,494K	0.24	Y		
4.1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1)(f)	✓	2018	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2018	Oct 2018	4,137,500	0.24	Y		
4.1.2) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2)		2018	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2018	Jul 2018	169,948	13.67	Y		
4.1.2) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2)	✓	2018	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2018	Jul 2018	4,754	13.67	Y		
6.1.1) A260, CTG, 9MM JACKETED HOLLOW POINT, COMPLETE ROUND		2019	OLIN WINCHESTER / EAST ALTON, IL	C / FFP	Rock Island Arsenal, IL	Mar 2019	Sep 2020	1,043,000	0.24	Y		
7.1.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP)		2018 ⁽³⁾	OLIN CORPORATION / ILLINOIS	C / FFP	Rock Island Arsenal, IL	Mar 2018	Oct 2018	1,382,800	0.17	Y		
8.1.1) A555, CAL .50 BALL M33 LINKED, LOAD, ASSEMBLE, PACK (LAP)		2019	OLIN WINCHESTER / EAST ALTON, IL	C / FFP	Rock Island Arsenal, IL	Mar 2019	Mar 2021	1,361,993	1.86	Y		
8.1.2) A555, CAL .50 BALL M33 LINKED, BOX METAL M2A2		2019	TO BE SELECTED / TBD	TBD	Rock Island Arsenal, IL	Apr 2019	Apr 2019	13,425	14.06	Y		
9.1.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)		2018	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2018	Mar 2019	134,011	1.98	Y		
9.1.2) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2		2018	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2018	Jul 2018	1,367	13.67	Y		
11.1.1) AA40, 5.56MM FRANGIBLE, COMPLETE ROUND		2019	VISTA OUTDOOR SALES / ANOKA, MN	C / FFP	PICATINNY ARSENAL, NJ	Mar 2019	Mar 2020	2,198,306	0.45	Y		
14.1.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND		2018	GENERAL DYNAMICS CANADA @CANADA / TBD	SS / FFP	MCSC, QUANTICO, VA	Apr 2018	Jul 2018	5,896,922	0.65	Y		
14.1.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND		2019	GENERAL DYNAMICS CANADA @CANADA / TBD	SS / FFP	MCSC, QUANTICO, VA	Apr 2019	Jul 2019	5,682,090	0.68	Y		
15.1.1) AB06, 5.56MM SESAMS SINGLE RND (RED), COMPLETE ROUND		2018	GENERAL DYNAMICS CANADA @CANADA / TBD	SS / FFP	MCSC, QUANTICO, VA	Apr 2018	Jul 2018	4,025,373	0.67	Y		Feb 2018
15.1.1) AB06, 5.56MM SESAMS SINGLE RND (RED), COMPLETE ROUND		2019	GENERAL DYNAMICS CANADA @CANADA / TBD	C / TBD	MCSC, QUANTICO, VA	Apr 2019	Jul 2019	3,995,714	0.68	Y		Feb 2019
17.1.1) AB43, CAL .300 WIN MAG MATCH, COMPLETE ROUND	✓	2019	VISTA OUTDOOR SALES@ANOKA, MN / TBD	C / TBD	** NO PCO **	Apr 2019	Oct 2020	608,594	1.28	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition						Item Number / Title [DODIC]: 3 / Small Arms Ammunition			
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
18.1.1) AB57, CTG, 5.56MM BALL M855A1 EPR, LOAD, ASSEMBLE, AND PACK		2019	ALLIANT TECH DBA (LCAAP)/INDEPENDENCE, MO / New MFG - Loc	C / FFP	ROCK ISLAND ARSENAL	Mar 2019	Oct 2019	14,875,950	0.30	Y		Jan 2019
18.1.2) AB57, CTG 5.56 MM BALL EPR, METAL BOX M2A2		2019	TO BE SELECTED@ / UNKNOWN	C / FFP	ROCK ISLAND ARSENAL	May 2019	Jul 2019	17,145	14.06	Y		Feb 2019
19.1.1) AC15, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND ^(†)		2019	TO BE SELECTED / TBD	C / TBD	NSWC CD, CRANE, IN	Oct 2018	Jan 2019	1,957,500	4.80	Y		
22.1.1) AC07 (formerly AXX3), 9MM BLANK, COMPLETE ROUND		2018	GDOTS CANADA@CANADA / TBD	SS / FFP	MCSC, QUANTICO, VA	Apr 2018	Oct 2018	27,712	2.78	Y		Feb 2018
22.1.1) AC07 (formerly AXX3), 9MM BLANK, COMPLETE ROUND		2019	GDOTS CANADA@CANADA / TBD	SS / FFP	MCSC, QUANTICO, VA	Apr 2019	Oct 2019	40,851	2.84	Y		Feb 2019
23.1.1) AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED		2018	TO BE SELECTED / TBD	C / FFP	NSWC CD, CRANE, IN	Apr 2018	Jul 2018	3,507,511	4.66	Y		Feb 2018
24.1.1) AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED		2018	TO BE SELECTED@ / UNKNOWN	C / FFP	NSWC CD, CRANE, IN	Apr 2018	Jul 2018	1,948,947	4.27	Y		Feb 2018

^(†) indicates the presence of a P-21

Footnotes:

⁽³⁾ The FY18 Complete Round is a delivery order to the FY16 Contract.

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition										Item Number / Title [DODIC]: 3 / Small Arms Ammunition												
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2018										Fiscal Year 2019														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019															
							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		
4.1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1)																																
	1	2018	NAVY	145.494	.000	145.494							A -	-	-	-	-	-	-	12.125	12.125	12.125	12.125	12.125	12.125	12.125	12.125	12.125	12.125	12.125	12.125	.000
✓	1	2018	NAVY	4.138	.000	4.138							A -	-	-	-	-	-	-	.352	.352	.352	.352	.352	.352	.352	.352	.352	.352	.352	.266	.000
19.1.1) AC15, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND																																
	2	2019	NAVY	1.958	.000	1.958											A -	-	-	.500	.500	.500	.458									.000
							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: 1508N / 02 / 1					P-1 Line Item Number / Title: 1350 / Infantry Weapons Ammunition				Item Number / Title [DODIC]: 3 / Small Arms Ammunition			
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	ALLIANT TECH DBA (LCAAP) - INDEPENDENCE, MO	3,360,000	38,800,000	350,000,000	6	6	12	18	6	6	6	12
2	TO BE SELECTED - TBD				6	6	6	12	6	6	3	9

"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: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1471 / Rockets, All Types					
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>)	153.782	12.905	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	166.687
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	153.782	12.905	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	166.687
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	153.782	12.905	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	166.687
<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 family of shoulder fired rockets provide lightweight, single shot, disposable weapons mainly employed against and optimized to defeat light armored vehicles and other hard targets at close combat ranges. They can be employed from an enclosure or the open battle field as assault weapons against bunkers, field fortifications, structures and other hard-point positions. Each shoulder fired rocket family has a training launcher and sub-caliber practice rocket that fully simulates firing. This includes items such as: The Tactical Rocket, 66mm, Light Anti-Armor Weapon (LAW); a lightweight, single shot, disposable weapon optimized to defeat light armored vehicles and other hard targets at close combat ranges. The Tactical Rocket, 83mm, Shoulder Mounted Assault Weapon (SMAW) Rocket is designed especially for use against main battle tanks and other armored vehicles. There are four variants of the SMAW; High Explosive Dual Purpose, High Explosive Anti-Armor, Novel Explosive, and Common Practice (CP). The CP round is an unguided shoulder fired practice rocket designed to simulate firing a live rocket at hardened targets.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1471 / Rockets, All Types				
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 / Rockets, All Types	P-5a, P-21			- / 153.782	- / 12.905	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 153.782	- / 12.905	- / 0.000	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

The funds in FY18 and out have been realigned to line item 1125.

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1471 / Rockets, All Types						Item Number / Title [DODIC]: 1 / Rockets, All Types							
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 (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				153.782		12.905		0.000		0.000		0.000		0.000					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				153.782		12.905		0.000		0.000		0.000		0.000					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				153.782		12.905		0.000		0.000		0.000		0.000					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
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 - HA29 Rocket, 66MM HE M72A7 W/ GRAZE Cost																			
Recurring Cost																			
1.1.1) HA29, COMPLETE ROUND ^(†)		2,583.91	30,525	78.874	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.2) PRODUCTION ENGINEERING		-	-	0.683	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	79.557	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - HA29 Rocket, 66MM HE M72A7 W/ GRAZE Cost		-	-	79.557	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost																			
Recurring Cost																			
2.1.1) HX07 COMPLETE ROUND ^(†)		4,811.05	12,638	60.802	4,107.28	3,003	12.334	-	-	-	-	-	-	-	-	-	-	-	
2.1.2) PRODUCTION ENGINEERING		-	-	1.034	-	-	0.571	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	61.836	-	-	12.905	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost		-	-	61.836	-	-	12.905	-	-	-	-	-	-	-	-	-	-	-	
Hardware - Cumulative PY Funding 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: 1508N / 02 / 1						P-1 Line Item Number / Title: 1471 / Rockets, All Types							Item Number / Title [DODIC]: 1 / Rockets, All Types					
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)
3.1.1) Cumulative PY Funding	-	-	12.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	12.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Cumulative PY Funding Cost	-	-	12.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	153.782	-	-	12.905	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

(t) 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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1471 / Rockets, All Types				Item Number / Title [DODIC]: 1 / Rockets, All Types				

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
1.1.1) HA29, COMPLETE ROUND ^(†)	✓	2013	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	1,040	2,931.33	Y		May 2014
1.1.1) HA29, COMPLETE ROUND ^(†)		2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	1,301	2,931.33	Y		May 2014
1.1.1) HA29, COMPLETE ROUND ^(†)	✓	2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	532	2,931.33	Y		May 2014
1.1.1) HA29, COMPLETE ROUND ^(†)	✓	2016	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2016	Jun 2017	1,286	2,974.39	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)		2013	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Sep 2015	Apr 2018	5,259	5,409.07	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)		2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Sep 2015	Apr 2018	2,278	5,409.07	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)	✓	2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Sep 2015	Apr 2018	1,029	5,409.07	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)		2016	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Apr 2016	Aug 2018	4,072	3,552.88	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)		2017	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Apr 2017	Aug 2019	2,889	4,107.28	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)	✓	2017	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Apr 2017	Aug 2019	114	4,107.28	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1471 / Rockets, All Types										Item Number / Title [DODIC]: 1 / Rockets, All Types														
Cost Elements (Units in Each)							Fiscal Year 2015										Fiscal Year 2016														B A L A N C E			
O C C O	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 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				
1.1.1) HA29, COMPLETE ROUND																																		
Prior Years Deliveries: 26366																																		
✓	1	2013	NAVY	1,040	0	1,040								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,040		
	1	2015	NAVY	1,301	0	1,301								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,301		
✓	1	2015	NAVY	532	0	532								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	532		
✓	1	2016	NAVY	1,286	0	1,286																A -	-	-	-	-	-	-	-	-	-	-	-	1,286
2.1.1) HX07 COMPLETE ROUND																																		
	2	2013	NAVY	5,259	0	5,259									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,259		
	2	2015	NAVY	2,278	0	2,278									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,278		
✓	2	2015	NAVY	1,029	0	1,029									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,029		
	2	2016	NAVY	4,072	0	4,072																A -	-	-	-	-	-	-	-	-	-	-	-	4,072
	2	2017	NAVY	2,889	0	2,889																									2,889			
✓	2	2017	NAVY	114	0	114																									114			
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1471 / Rockets, All Types										Item Number / Title [DODIC]: 1 / Rockets, All Types													
Cost Elements (Units in Each)							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														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1.1.1) HA29, COMPLETE ROUND																																	
Prior Years Deliveries: 26366																																	
✓	1	2013	NAVY	1,040	0	1,040	-	-	-	-	-	-	-	200	200	200	200	200	40													0	
	1	2015	NAVY	1,301	0	1,301	-	-	-	-	-	-	-	200	200	200	200	200	200	101													0
✓	1	2015	NAVY	532	0	532	-	-	-	-	-	-	-	200	200	132													0				
✓	1	2016	NAVY	1,286	0	1,286	-	-	-	-	-	-	-	-	109	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	0		
2.1.1) HX07 COMPLETE ROUND																																	
	2	2013	NAVY	5,259	0	5,259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,308	1,308	1,308	1,335	0		
	2	2015	NAVY	2,278	0	2,278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	614	614	614	436	0		
✓	2	2015	NAVY	1,029	0	1,029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150	150	150	150	129	
	2	2016	NAVY	4,072	0	4,072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	409	407	3,256	
	2	2017	NAVY	2,889	0	2,889								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,889	
✓	2	2017	NAVY	114	0	114								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1471 / Rockets, All Types										Item Number / Title [DODIC]: 1 / Rockets, All Types														
Cost Elements (Units in Each)							Fiscal Year 2019													Fiscal Year 2020													BALANCE	
OCCO	MFR#	FY	SERVICE	PROCQTY	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				
1.1.1) HA29, COMPLETE ROUND																																		
Prior Years Deliveries: 26366																																		
✓	1	2013	NAVY	1,040	1,040	0																												0
	1	2015	NAVY	1,301	1,301	0																												0
✓	1	2015	NAVY	532	532	0																												0
✓	1	2016	NAVY	1,286	1,286	0																												0
2.1.1) HX07 COMPLETE ROUND																																		
	2	2013	NAVY	5,259	5,259	0																												0
	2	2015	NAVY	2,278	2,278	0																												0
✓	2	2015	NAVY	1,029	900	129	129																											0
	2	2016	NAVY	4,072	816	3,256	407	407	407	407	407	407	407																			0		
	2	2017	NAVY	2,889	0	2,889	-	-	-	-	-	-	-	-	-	305	301	301	301	301	301	301	301	204	301	273						0		
✓	2	2017	NAVY	114	0	114	-	-	-	-	-	-	-	-	-	14	10	10	10	10	10	10	10	10	-	10	10	10			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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1471 / Rockets, All Types				Item Number / Title [DODIC]: 1 / Rockets, All Types			

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	NAMMO Talley Defense Systems - Mesa, AZ	1,000	2,500	10,000	12	12	12	24	12	12	12	24
2	NAMMO Talley Defense Systems - Mesa, AZ	1,000	2,500	11,000	8	8	31	39	6	6	28	34

"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: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1473 / Artillery, All Types					
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>)	496.427	66.102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	562.529
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	496.427	66.102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	562.529
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	496.427	66.102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	562.529
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The family of 155MM artillery is separate loading ammunition fired from M777 howitzers, and have three separate components: primer, propellant, and projectile. High explosive artillery ammunition is used against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications installations, and mechanized and armored forces. Excalibur is a precision-guided artillery projectile that provides accurate, first round fire-for-effect capability, and can achieve reduced collateral damage. Illumination cartridges are used to illuminate the battlefield with light either in visual or near Infrared Spectrum. Infrared Spectrum provides a decisive advantage while using Night Vision Devices. Smoke cartridges are used to provide obscuration on the battlefield and to mark locations. Obscuration rounds are used to build a smoke screen to provide cover for the maneuver unit from enemy observation.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition					P-1 Line Item Number / Title: 1473 / Artillery, All Types					
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	Artillery, All Types	P-5a, P-21			- / 496.427	- / 66.102	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 496.427	- / 66.102	- / 0.000	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. 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 in FY18 and out have been realigned to line item 1650.										

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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: 1508N / 02 / 1						P-1 Line Item Number / Title: 1473 / Artillery, All Types									Aggregated Items Title: Artillery, All Types					
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) D505,PROJ, 155MM, M485A2, ILLUM																				
1.1) D505 LOAD, ASSEMBLE, PACK (LAP) ^(†)	A		258.85	4,493	1.163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) D505 DOWNLOAD, CLEAN AND INSPECT ^(†)	A		82.45	4,718	0.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) D505 METAL PARTS SETS ^(†)	A		258.62	4,493	1.162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) D505 ILLUM CANNISTER, 155MM ^(†)	A		312.46	4,583	1.432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) D505 CANISTER MPTS ASSY, 155MM ILLUM ^(†)	A		49.31	4,583	0.226	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) D505 CANISTER BASE ASSY, 155MM ILLUM ^(†)	A		15.49	4,583	0.071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) D505 M10 EXPULSION CHARGE ASSEMBLY ^(†)	A		16.36	4,583	0.075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8) D505 PARACHUTE MAIN, 155MM ILLUM ^(†)	A		33.82	4,583	0.155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) D505 PARACHUTE MAIN SUPPORTS, 155MM ILUM ^(†)	A		3.00	18,331	0.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) D505 PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM ^(†)	A		16.80	4,583	0.077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) D505 DELAY ELEMENT, 155MM ILLUM ^(†)	A		32.95	4,583	0.151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.12) D505 WOOD PALLET (HEAT TREATED) ^(†)	A		87.33	584	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.13) D505 PRODUCTION ENGINEERING	A		-	-	0.155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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:						P-1 Line Item Number / Title:										Aggregated Items Title:					
1508N / 02 / 1						1473 / Artillery, All Types										Artillery, All Types					
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)	
1.14) D505 ACCEPTANCE TESTING	A		-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) D505,PROJ, 155MM, M485A2, ILLUM			-	-	5.182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS																					
2.1) DA12 LOAD, ASSEMBLE & PACK (LAP) ^(†)	A		643.64	50,160	32.285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) DA12 BLACK POWDER, M231 ^(†)	A		14.81	5,200	0.077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.3) DA12 PROPELLANT, PAPP7993 ^(†)	A		8.35	177,000	1.478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.4) DA12 COMBUSTIBLE CASES ^(†)	A		35.23	51,696	1.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.5) DA12 PRODUCTION ENGINEERING	A		-	-	0.906	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.6) DA12 ACCEPTANCE TESTING	A		-	-	0.081	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS			-	-	36.648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS																					
3.1) DA13 LOAD, ASSEMBLE & PACK (LAP) ^(†)	A		1,380.45	30,900	42.656	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.2) DA13 COMBUSTIBLE CASES ^(†)	A		35.93	27,024	0.971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.3) DA13 BLACK POWDER CLASS 1 (LB) ^(†)	A		14.72	5,300	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.4) DA13 PROPELLANT M31A2 ^(†)	A		16.91	153,456	2.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.5) DA13 PRODUCTION ENGINEERING			-	-	1.105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.6) DA13 ACCEPTANCE TESTING			-	-	0.060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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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: 1508N / 02 / 1							P-1 Line Item Number / Title: 1473 / Artillery, All Types								Aggregated Items Title: Artillery, All Types					
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: 3) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS			-	-	47.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) DA49, 155MM, IR ILLUM																				
4.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^(†)	A		260.20	9,212	2.397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) DA49 DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE ^(†)	A		82.42	6,879	0.567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.3) DA49 M10 EXPULSION CHARGE ASSY ^(†)	A		16.31	6,682	0.109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) DA49 METAL PARTS SET ^(†)	A		258.28	6,551	1.692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5) DA49 IR ILLUM CANISTER, 155MM ^(†)	A		313.65	9,450	2.964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.6) DA49 PARACHUTE, MAIN ^(†)	A		37.29	9,385	0.350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.7) DA49 DELAY ELEMENT ^(†)	A		32.08	9,415	0.302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.8) DA49 CANISTER, MPTS ASSY ^(†)	A		50.73	9,423	0.478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.9) DA49 PARACHUTE, MAIN SUPPORTS ^(†)	A		2.98	37,557	0.112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.10) DA49 PARACHUTE, DROGUE ASSY ^(†)	A		16.11	9,436	0.152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.11) DA49 CANISTER, BASE ASSY ^(†)	A		16.02	9,423	0.151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.12) DA49 WOOD PALLET (HEAT TREATED) ^(†)	A		86.85	852	0.074	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.13) DA49 PRODUCTION ENGINEERING			-	-	0.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.14) DA49 ACCEPTANCE TESTING			-	-	0.151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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: 1508N / 02 / 1									P-1 Line Item Number / Title: 1473 / Artillery, All Types						Aggregated Items Title: Artillery, All Types					
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) DA49, 155MM, IR ILLUM			-	-	9.554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) D529, PRJ 155MM HE M795 TNT																				
5.1) D529 M795 Metal Parts ^(†)	A		427.11	111,721	47.717	404.72	93,499	37.841	-	-	-	-	-	-	-	-	-	-	-	-
5.2) D529 M795 LAP ^(†)	A		291.47	109,531	31.925	161.74	39,922	6.457	-	-	-	-	-	-	-	-	-	-	-	-
5.3) D529 TNT Supplemental Charge ^(†)	A		15.46	111,721	1.727	9.91	93,499	0.927	-	-	-	-	-	-	-	-	-	-	-	-
5.4) D529 Wooden Pallets ^(†)	A		91.51	14,239	1.303	95.77	11,715	1.122	-	-	-	-	-	-	-	-	-	-	-	-
5.5) D529 TNT Type I Flake ^(†)	A		-	-	-	4.61	3,885,037	17.910	-	-	-	-	-	-	-	-	-	-	-	-
5.6) D529 Production Engineering	A		-	-	0.001	-	-	1.095	-	-	-	-	-	-	-	-	-	-	-	-
5.7) D529 Acceptance Testing	A		-	-	0.761	-	-	0.750	-	-	-	-	-	-	-	-	-	-	-	-
5.8) D529 Metal Part First Article	A		-	-	4.652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) D529, PRJ 155MM HE M795 TNT			-	-	88.086	-	-	66.102	-	-	-	-	-	-	-	-	-	-	-	-
6) DA51, 155MM HE Training Projectile M1122																				
6.1) DA51 Load, Assemble & Pack (LAP) ^(†)	A		308.03	23,816	7.336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) DA51 Wooden Pallet ^(†)	A		91.41	3,096	0.283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) DA51 Plug, Lifting, Meltable for IM ^(†)	A		12.02	24,292	0.292	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) DA51 Supplemental Charge, PBXNg ^(†)	A		20.09	24,292	0.488	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.5) DA51 TNT Type I Flake ^(†)	A		2.48	71,448	0.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.6) DA51 Production Engineering	A		-	-	0.773	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.7) DA51 Acceptance Testing	A		-	-	0.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.8) DA51 Material Change Programs (MCP)	A		-	-	2.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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: 1508N / 02 / 1						P-1 Line Item Number / Title: 1473 / Artillery, All Types						Aggregated Items Title: Artillery, All Types								
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: 6) DA51, 155MM HE Training Projectile M1122			-	-	12.549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) DA54, 155MM HE M795 W/IMX																				
7.1) DA54 METAL PARTS-M795	A		368.40	78,859	29.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)	A		327.95	113,310	37.160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3) DA54 PLUG, LIFTING, MELTABLE FOR IM ^(†)	A		17.30	98,694	1.707	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.4) DA54 SUPPLEMENTAL CHARGE, PBXN-9 ^(†)	A		23.50	98,694	2.319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.5) DA54 WOODEN PALLETS, IMX-101 ^(†)	A		487.34	2,528	1.232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.6) DA54 EXPLOSIVE FILL IMX-101 ^(†)	A		66.75	641,718	42.836	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.7) DA54 PRODUCTION ENGINEERING			-	-	2.957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.8) DA54 ACCEPTANCE TESTING			-	-	1.315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 7) DA54, 155MM HE M795 W/IMX			-	-	118.578	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8) PRIOR YEARS CUMULATIVE FUNDING																				
8.1) PRIOR YEARS CUMULATIVE FUNDING	A		-	-	178.365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 8) PRIOR YEARS CUMULATIVE FUNDING			-	-	178.365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	496.427	-	-	66.102	-	-	-	-	-	-	-	-	-	-	-	-

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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1473 / Artillery, All Types					Aggregated Items: Artillery, All Types			
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) D505,PROJ, 155MM, M485A2, ILLUM												
1.1) D505 LOAD, ASSEMBLE, PACK (LAP) ^(†)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	4,493	258.84	Y		
1.2) D505 DOWNLOAD, CLEAN AND INSPECT	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Jun 2015	Jun 2016	4,718	82.43	Y		
1.3) D505 METAL PARTS SETS	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,493	258.67	Y		
1.4) D505 ILLUM CANNISTER, 155MM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,583	312.47	Y		
1.5) D505 CANISTER MPTS ASSY, 155MM ILLUM	✓	2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	4,583	49.29	Y		
1.6) D505 CANISTER BASE ASSY, 155MM ILLUM	✓	2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	4,583	15.54	Y		
1.7) D505 M10 EXPULSION CHARGE ASSEMBLY	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,583	16.28	Y		
1.8) D505 PARACHUTE MAIN, 155MM ILLUM	✓	2015	YOLAND CORPORATION, INC / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	4,583	33.90	Y		
1.9) D505 PARACHUTE MAIN SUPPORTS, 155MM ILLUM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	18,331	3.00	Y		
1.10) D505 PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM	✓	2015	YOLAND CORPORATION, INC / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	4,583	16.90	Y		
1.11) D505 DELAY ELEMENT, 155MM ILLUM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,583	32.92	Y		
1.12) D505 WOOD PALLET (HEAT TREATED)	✓	2015	GOVERNMENT FURNISHED MATERIAL / ROCK ISLAND ARSENAL,IL	PO	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	584	86.63	Y		
2) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS												
2.1) DA12 LOAD, ASSEMBLE & PACK (LAP) ^(†)	✓	2015	GENERAL DYNAMICS ATP / HAMPTON, AR	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2015	Mar 2017	50,160	16.32	Y		
2.2) DA12 BLACK POWDER, M231	✓	2015	GOEX INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Mar 2016	5,200	14.75	Y		
2.3) DA12 PROPELLANT, PAPP7993	✓	2015	BAE SYSTEMS ORDNANCE SYSTEMS INC / RADFORD,VA	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2015	Nov 2016	177,000	8.35	Y		
2.4) DA12 COMBUSTIBLE CASES	✓	2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / FFP	PICATINNY ARSENAL, NJ	May 2015	Nov 2016	51,696	35.22	Y		
3) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS												
3.1) DA13 LOAD, ASSEMBLE & PACK (LAP)	✓	2015	GENERAL DYNAMICS ATP / HAMPTON, AR	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2015	Mar 2017	30,900	18.54	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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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
3.2) DA13 COMBUSTIBLE CASES	✓	2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	PICATINNY ARSENAL, NJ	May 2015	Nov 2016	27,024	35.92	Y		
3.3) DA13 BLACK POWDER CLASS 1 (LB)	✓	2015	GOEX INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Apr 2015	Sep 2016	5,300	14.75	Y		
3.4) DA13 PROPELLANT M31A2	✓	2015	GENERAL DYNAMICS / SALABERRY-DE- VALLEYFIELD, CANADA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	153,456	16.91	Y		
4) DA49, 155MM, IR ILLUM												
4.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	2,599	258.84	Y		
4.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^(†)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	3,952	258.84	Y		
4.2) DA49 DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE		2015	MCALESTER AAP / MCALESTER, OK	PO	PICATINNY ARSENAL, NJ	Jun 2015	Jun 2016	2,729	82.43	Y		
4.2) DA49 DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE	✓	2015	MCALESTER AAP / MCALESTER, OK	PO	PICATINNY ARSENAL, NJ	Jun 2015	Jun 2016	4,150	82.43	Y		
4.3) DA49 M10 EXPULSION CHARGE ASSY		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	2,651	16.28	Y		
4.3) DA49 M10 EXPULSION CHARGE ASSY	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,031	16.28	Y		
4.4) DA49 METAL PARTS SET		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	2,599	258.29	Y		
4.4) DA49 METAL PARTS SET	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	3,952	258.29	Y		
4.5) DA49 IR ILLUM CANISTER, 155MM		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	2,651	308.41	Y		
4.5) DA49 IR ILLUM CANISTER, 155MM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	4,031	308.41	Y		
4.6) DA49 PARACHUTE, MAIN		2015	NORTH AMERICAN AERODYNAMICS, INC / ROXBORO, NC	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,651	38.35	Y		
4.6) DA49 PARACHUTE, MAIN	✓	2015	NORTH AMERICAN AERODYNAMICS, INC / ROXBORO, NC	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	4,031	38.35	Y		
4.7) DA49 DELAY ELEMENT		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	2,651	32.92	Y		
4.7) DA49 DELAY ELEMENT	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	4,031	32.92	Y		

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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
4.8) DA49 CANISTER, MPTS ASSY		2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	2,651	49.29	Y		
4.8) DA49 CANISTER, MPTS ASSY	✓	2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	4,031	49.29	Y		
4.9) DA49 PARACHUTE, MAIN SUPPORTS		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	10,604	3.00	Y		
4.9) DA49 PARACHUTE, MAIN SUPPORTS	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	16,142	3.00	Y		
4.10) DA49 PARACHUTE, DROGUE ASSY		2015	NORTH AMERICAN AERODYNAMICS, INC / ROXBORO, NC	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,651	15.95	Y		
4.10) DA49 PARACHUTE, DROGUE ASSY	✓	2015	NORTH AMERICAN AERODYNAMICS, INC / ROXBORO, NC	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	4,031	15.95	Y		
4.11) DA49 CANISTER, BASE ASSY		2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	2,651	15.54	Y		
4.11) DA49 CANISTER, BASE ASSY	✓	2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	4,031	15.54	Y		
4.12) DA49 WOOD PALLET (HEAT TREATED)		2015	GOVERNMENT FURNISHED MATERIAL / UNKNOWN	PO	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	338	86.63	Y		
4.12) DA49 WOOD PALLET (HEAT TREATED)	✓	2015	GOVERNMENT FURNISHED MATERIAL / UNKNOWN	PO	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	514	86.63	Y		
5) D529, PRJ 155MM HE M795 TNT												
5.1) D529 M795 Metal Parts ^(†)		2016	GENERAL DYNAMICS OTS / SCRANTON, PA	C / FFP	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	34,855	427.11	Y		
5.1) D529 M795 Metal Parts ^(†)	✓	2016	GENERAL DYNAMICS OTS / SCRANTON, PA	C / FFP	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	76,866	427.11	Y		
5.1) D529 M795 Metal Parts ^(†)		2017	GENERAL DYNAMICS OTS / SCRANTON, PA	C / FFP	PICATINNY ARSENAL, NJ	Jun 2017	Dec 2018	91,878	405.35	Y		
5.1) D529 M795 Metal Parts ^(†)	✓	2017	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2017	Dec 2018	1,621	369.00	Y		
5.2) D529 M795 LAP ^(†)		2016	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Sep 2016	Sep 2018	34,172	291.47	Y		
5.2) D529 M795 LAP ^(†)	✓	2016	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Sep 2016	Sep 2018	75,359	291.47	Y		
5.2) D529 M795 LAP ^(†)		2017	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2017	Aug 2019	38,333	161.74	Y		
5.2) D529 M795 LAP ^(†)	✓	2017	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2017	Aug 2019	1,589	161.74	Y		

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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
5.3) D529 TNT Supplemental Charge		2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Dec 2016	Dec 2019	34,855	15.45	N	Sep 2018	
5.3) D529 TNT Supplemental Charge	✓	2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Dec 2016	Dec 2019	76,866	15.45	N	Sep 2018	
5.3) D529 TNT Supplemental Charge		2017	CHEMRING ORDNANCE, INC. / PERRY,FL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	91,878	9.91	Y		
5.3) D529 TNT Supplemental Charge	✓	2017	CHEMRING ORDNANCE, INC. / PERRY,FL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	1,621	9.91	Y		
5.4) D529 Wooden Pallets		2016	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	SS / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2018	4,442	91.51	N	Sep 2018	
5.4) D529 Wooden Pallets	✓	2016	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	SS / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2018	9,797	91.51	N	Sep 2018	
5.4) D529 Wooden Pallets		2017	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	SS / FFP	ROCK ISLAND ARSENAL, IL	Aug 2017	Aug 2018	11,508	95.77	Y		
5.4) D529 Wooden Pallets	✓	2017	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	SS / FFP	ROCK ISLAND ARSENAL, IL	Aug 2017	Aug 2018	207	95.77	Y		
5.5) D529 TNT Type I Flake		2017	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Sep 2017	Sep 2019	3,839,750	4.61	N		
5.5) D529 TNT Type I Flake	✓	2017	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Sep 2017	Sep 2019	45,287	4.61	N		
6) DA51, 155MM HE Training Projectile M1122												
6.1) DA51 Load, Assemble & Pack (LAP) ^(†)		2016	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	PICATINNY ARSENAL, NJ	Mar 2017	May 2018	23,816	308.04	Y		
6.2) DA51 Wooden Pallet		2016	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Feb 2018	3,096	91.51	Y		
6.3) DA51 Plug, Lifting, Melttable for IM		2016	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2018	24,292	12.00	Y		
6.4) DA51 Supplemental Charge, PBXN9		2016	GOVERNMENT FURNISHED MATERIAL / ROCK ISLAND ARSENAL,IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	24,292	20.08	Y		
6.5) DA51 TNT Type I Flake		2016	GOVERNMENT FURNISHED MATERIAL / UNKNOWN	PO	PICATINNY ARSENAL, NJ	Aug 2016	Aug 2016	71,448	2.48	Y		
7) DA54, 155MM HE M795 W/IMX												
7.2) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)		2013 ⁽¹⁾	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2013	Sep 2016	39,373	325.00	Y		
7.2) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)	✓	2013 ⁽²⁾	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2013	Sep 2017	54,491	325.00	Y		
7.2) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Jan 2016	Feb 2018	8,504	342.18	Y		

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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
7.2) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)	✓	2015	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Jan 2016	Feb 2018	10,942	342.18	Y		
7.3) DA54 PLUG, LIFTING, MELTABLE FOR IM		2015	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	8,674	18.53	Y		
7.3) DA54 PLUG, LIFTING, MELTABLE FOR IM	✓	2015	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	11,161	18.53	Y		
7.4) DA54 SUPPLEMENTAL CHARGE, PBXN-9		2015	GOVERNMENT FURNISHED MATERIAL / PICATINNY ARSENAL, NJ	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	8,674	25.16	Y		
7.4) DA54 SUPPLEMENTAL CHARGE, PBXN-9	✓	2015	GOVERNMENT FURNISHED MATERIAL / PICATINNY ARSENAL, NJ	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	11,161	25.16	Y		
7.5) DA54 WOODEN PALLETS, IMX-101		2015	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	1,106	105.58	Y		
7.5) DA54 WOODEN PALLETS, IMX-101	✓	2015	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	1,422	105.58	Y		
7.6) DA54 EXPLOSIVE FILL IMX-101 ^(†)		2015	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Dec 2016	280,632	16.46	Y		
7.6) DA54 EXPLOSIVE FILL IMX-101 ^(†)	✓	2015	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Dec 2016	361,086	16.46	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ Program delays a result of unavailability of IMX-101 explosive and USMC production competing with Army production.

⁽²⁾ Program delays a result of unavailability of IMX-101 explosive and USMC production competing with Army production.

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Items <i>(Units in Thousands)</i>							Fiscal Year 2013										Fiscal Year 2014										B A L A N C E							
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014																	
							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) D505,PROJ, 155MM, M485A2, ILLUM																																		
1.1) D505 LOAD, ASSEMBLE, PACK (LAP)																																		
✓	34	2015	NAVY	4.493	.000	4.493																											4.493	
2) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS																																		
2.1) DA12 LOAD, ASSEMBLE & PACK (LAP)																																		
✓	35	2015	NAVY	50.160	.000	50.160																											50.160	
4) DA49, 155MM, IR ILLUM																																		
4.1) DA49 LOAD, ASSEMBLE & PACK (LAP)																																		
Prior Years Deliveries: 2661																																		
	36	2015	NAVY	2.599	.000	2.599																											2.599	
✓	36	2015	NAVY	3.952	.000	3.952																											3.952	
5) D529, PRJ 155MM HE M795 TNT																																		
5.1) D529 M795 Metal Parts																																		
37	2016	NAVY	34.855	.000	34.855																											34.855		
✓	37	2016	NAVY	76.866	.000	76.866																											76.866	
	37	2017	NAVY	91.878	.000	91.878																											91.878	
✓	38	2017	NAVY	1.621	.000	1.621																											1.621	
5.2) D529 M795 LAP																																		
	39	2016	NAVY	34.172	.000	34.172																											34.172	
✓	39	2016	NAVY	75.359	.000	75.359																											75.359	
	39	2017	NAVY	38.333	.000	38.333																											38.333	
✓	39	2017	NAVY	1.589	.000	1.589																											1.589	
6) DA51, 155MM HE Training Projectile M1122																																		
6.1) DA51 Load, Assemble & Pack (LAP)																																		
	40	2016	NAVY	23.816	.000	23.816																											23.816	
7) DA54, 155MM HE M795 W/IMX																																		
7.2) DA54 LOAD, ASSEMBLE, PACK (LAP)																																		
	41	2013	NAVY	39.373	.000	39.373											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.373	
✓	41	2013	NAVY	54.491	.000	54.491											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.491
	41	2015	NAVY	8.504	.000	8.504																											8.504	
✓	41	2015	NAVY	10.942	.000	10.942																											10.942	
7.6) DA54 EXPLOSIVE FILL IMX-101																																		
	42	2015	NAVY	280.632	.000	280.632																											280.632	
							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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Items (Units in Thousands)							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					
✓	42	2015	NAVY	361.086	.000	361.086																													361.086
							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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Items (Units in Thousands)							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				
✓	42	2015	NAVY	361.086	.000	361.086													A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	361.086
							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: 1508N / 02 / 1							P-1 Line Item Number / Title: 1473 / Artillery, All Types												Aggregated Items: Artillery, All Types																				
Items <i>(Units in Thousands)</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																				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP									
✓	42	2015	NAVY	361.086	.000	361.086	-	-	233.409	127.677																													.000
							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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LI 1473 - Artillery, All Types
Navy

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Exhibit P-21, Production Schedule: PB 2019 Navy																	Date: February 2018																		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1473 / Artillery, All Types																	Aggregated Items: Artillery, All Types											
Items (Units in Thousands)							Fiscal Year 2019										Fiscal Year 2020														B A L A N C E				
O C 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					
✓	42	2015	NAVY	361.086	361.086	.000																													.000
							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: 1508N / 02 / 1					P-1 Line Item Number / Title: 1473 / Artillery, All Types				Aggregated Items: Artillery, All Types			
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	PINE BLUFF ARSENAL - PINE BLUFF, AR	104	208	4,000	6	6	24	30	4	3	24	27
2	GENERAL DYNAMICS ATP - HAMPTON, AR	30	50	125,000	6	6	18	24	6	6	18	24
3	PINE BLUFF ARSENAL - PINE BLUFF, AR	10,000	15,000	20,000	6	6	24	30	6	6	24	30
4	GENERAL DYNAMICS OTS - SCRANTON, PA	1	8	100,000	3	3	12	15	6	6	18	24
5	MEDICO INDUSTRIES - WILKES-BARRE, PA				0	0	0	0	0	0	18	18
6	AMERICAN ORDANCE - MIDDLETOWN, IA	1	8	100,000	3	2	24	26	3	2	24	26
7	CRANE ARMY AMMUNITION ACTIVITY - CRANE, IN	1	8	30,000	12	18	14	32	12	12	24	36
8	AMERICAN ORDNANCE - MIDDLETOWN, IA	12,000,000	25,000,000	35,000,000	6	6	24	30	6	6	24	30
9	BAE ORDNANCE SYSTEMS - KINGSPORT, TN				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: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types

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>	68.855	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	70.555
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	68.855	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	70.555
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	68.855	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	70.555
<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:

Demolition munitions charges provide high explosives for the purpose of destroying or altering man-made or natural objects or obstacles. Demolition munitions charges include block charges, shaped charges, flexible-linear charges, explosive sheet, cable, canine explosive scent items, chain cutters, and military dynamite. They are used for general demolition, cutting, breaching, cratering, and destruction of abandoned equipment and ammunition.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types				
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 / Demolition Munitions, All Types	P-5a			- / 68.855	- / 1.700	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 68.855	- / 1.700	- / 0.000	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
The funds contained in this BLI have been realigned to line item 1550.

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Exhibit P-5, Cost Analysis: PB 2019 Navy											Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types						Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types						
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>				68.855		1.700		0.000		0.000		0.000		0.000				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				68.855		1.700		0.000		0.000		0.000		0.000				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				68.855		1.700		0.000		0.000		0.000		0.000				
(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)
Hardware - M986 CHG, DEMO SHEET, 9FT PETN Cost																		
Recurring Cost																		
1.1.1) M986 COMPLETE ROUND ^(†)	-	-	0.992	58.90	28,818	1.697	-	-	-	-	-	-	-	-	-	-	-	
1.1.2) QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	0.992	-	-	1.700	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - M986 CHG, DEMO SHEET, 9FT PETN Cost	-	-	0.992	-	-	1.700	-	-	-	-	-	-	-	-	-	-	-	
Hardware - M982 Charge, Demolition Sheet 0.161 Inch Thick Cost																		
Recurring Cost																		
2.1.1) M982 Complete Round ^(†)	109.98	13,766	1.514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	1.514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - M982 Charge, Demolition Sheet 0.161 Inch Thick Cost	-	-	1.514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
3.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	66.349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2019 Navy														Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types							Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types				
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)
<i>Subtotal: Non Recurring Cost</i>	-	-	66.349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost</i>	-	-	66.349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	68.855	-	-	1.700	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

(t) 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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types				Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types				

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
1.1.1) M986 COMPLETE ROUND		2017	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2017	Aug 2020	28,818	58.90	Y		
2.1.1) M982 Complete Round	✓	2015 ⁽¹⁾	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2017	Aug 2018	11,450	109.60	Y		
2.1.1) M982 Complete Round	✓	2016 ⁽²⁾	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2017	Aug 2018	2,316	111.78	Y		

Footnotes:

⁽¹⁾ Contract awarded in Jul 2017. This will be for the entire M900 series.

⁽²⁾ This funding is being used to purchase Dodic M986, Contract awarded in Jul 2017. This will be for the entire M900 series.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1550 / Combat Support Munitions					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	11.788	31.577	0.164	31.741	42.548	42.682	34.493	30.037	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	11.788	31.577	0.164	31.741	42.548	42.682	34.493	30.037	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	11.788	31.577	0.164	31.741	42.548	42.682	34.493	30.037	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:
Beginning in FY18 this funding line represents a consolidation of ammunition line items by functional capability.

This line includes demolition items, hand held grenades, pyrotechnic devices, land mines, and non-lethal weapons.

Demolition items provide high explosives for the purpose of destroying or altering man-made or natural objects or obstacles. Demolition munitions charges include block charges, shaped charges, flexible-linear charges, explosive sheet, cable, canine explosive scent items, chain cutters and military dynamite. They are used for general demolition, cutting, breaching, cratering, and destruction of abandoned equipment/ammunition.

Also included are all hand held/vehicle launched grenades, pyrotechnics, and land mines used by ground forces of the Marine Corps. This includes colored smoke grenades, various pyrotechnics used in training to simulate battlefield affects, and the claymore mine.

Additionally, this family also has non-lethal munition variants such as; 12 gauge, 40mm grenades, diversionary grenades, 81mm non-lethal mortars and the Mission Payload Module (MPMN) system. These munitions are intended to incapacitate, warn or drive off targeted personnel or materiel; while minimizing permanent injury to personnel, and damage to property in the target area or environment.

The funds prior to FY18 are contained in line items 1030, 1468, 1500 and 1628.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1550 / Combat Support Munitions				
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 / Linear Charges, All Types	P-5a			- / 0.000	- / 0.000	- / 11.500	- / 23.594	- / 0.164	- / 23.758
P-5	2 / Grenades, All Types	P-5a, P-21			- / 0.000	- / 0.000	- / 0.288	- / 7.500	- / 0.000	- / 7.500
P-5	3 / Demolition Munitions, All Types	P-5a			- / 0.000	- / 0.000	- / 0.000	- / 0.483	- / 0.000	- / 0.483
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 11.788	- / 31.577	- / 0.164	- / 31.741
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: This line includes the funding in support of all linear charges, Hand Held/Vehicle launched grenades, pyrotechnic devices, land mines, demolition items, and non-lethal munition programs. FY 2019 baseline funding will procure Hand Grenades (DODIC G881), 66mm Vehicle Launched Grenades (DODIC GG24), line charges (DODIC M913), Arrestor Cable Release Mechanism (ACRM) (DODIC MLAC), and Anti-Personal Obstacle Breaching Systems (APOBS) (DODIC MN79) items to support required training, this includes annual training requirements as well as any pre-deployment training. FY 2019 funds will also be used for Engineering Support In Production (ESIP). ESIP costs support engineering functions on produced units which includes quality assurance, configuration management, lot acceptance testing, and support for items currently in production. Additionally, this funding addresses any changes to the design during production, assuring that the ammunition is of the highest quality, and deals with any manufacturing concerns during these processes. The baseline increase from FY18 to FY19 of \$19.789M is due to increases for the Arrestor Cable Release Mechanism (DODIC MLAC), a new item to provide safety for the ABV operators; M913 to provide additional training requirements, MN79 to provide additional rounds due to defects in the current inventory; and increased training requirements for G881 and GG24. OCO: FY 2019 Overseas Contingency Operations (OCO) funding will be used to reset munitions expended in support of Operation Inherent Resolve (OIR). Funding will procure additional Anti-Personal Obstacle Breaching Systems (APOBS) (DODIC MN79) to support required training, this includes annual training requirements as well as any pre-deployment training.										

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1550 / Combat Support Munitions						Item Number / Title [DODIC]: 1 / Linear Charges, All Types								
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			0.000			11.500			23.594			0.164			23.758		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000			0.000			11.500			23.594			0.164			23.758		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				0.000			0.000			11.500			23.594			0.164			23.758		
(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 - M913 CHG DEMO LINEAR M58 SERIES A4 Cost																					
Recurring Cost																					
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	0.000	-	-	0.000	28,742.04	158	4.541	25,416.00	244	6.202	-	-	0.000	25,416.00	244	6.202			
1.1.2) M913 COMP C-4 CLASS 3 ^(†)	-	-	0.000	-	-	0.000	16.93	292,593	4.954	16.98	459,261	7.798	-	-	0.000	16.98	459,261	7.798			
1.1.3) M913 FUZE ELECTRIC M113A4 GFM ^(†)	-	-	0.000	-	-	0.000	3,111.68	158	0.492	3,176.14	248	0.788	-	-	0.000	3,176.14	248	0.788			
1.1.4) M913 PRODUCTION SUPPORT	-	-	0.000	-	-	0.000	-	-	0.013	-	-	0.001	-	-	0.000	-	-	0.001			
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	10.000	-	-	14.789	-	-	0.000	-	-	14.789			
Subtotal: Hardware - M913 CHG DEMO LINEAR M58 SERIES A4 Cost	-	-	0.000	-	-	0.000	-	-	10.000	-	-	14.789	-	-	0.000	-	-	14.789			
Hardware - MN79 ANTI-PERS OBSTACLE BREACHING SYSTEM Cost																					
Recurring Cost																					
2.1.1) MN79 COMPLETE ROUND ^(†)	-	-	0.000	-	-	0.000	12,288.75	121	1.487	13,098.91	379	4.964	13,098.91	12	0.157	13,098.91	391	5.121			
2.1.2) MN79 PRODUCTION SUPPORT	-	-	0.000	-	-	0.000	-	-	0.009	-	-	0.012	-	-	0.007	-	-	0.019			

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Exhibit P-5, Cost Analysis: PB 2019 Navy										Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1550 / Combat Support Munitions					Item Number / Title [DODIC]: 1 / Linear Charges, All Types							

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)
2.1.3) MN79 QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.004	-	-	0.012	-	-	0.000	-	-	0.012
2.1.4) Non-Recurring First Article Test (FAT)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.317	-	-	0.000	-	-	0.317
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	1.500	-	-	5.305	-	-	0.164	-	-	5.469
<i>Subtotal: Hardware - MN79 ANTI-PERS OBSTACLE BREACHING SYSTEM Cost</i>	-	-	0.000	-	-	0.000	-	-	1.500	-	-	5.305	-	-	0.164	-	-	5.469
Hardware - MLAC MICLIC Arresting Cable Cost																		
Recurring Cost																		
3.1.1) MLAC Complete Round ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	7,000.00	470	3.290	-	-	0.000	7,000.00	470	3.290
3.1.2) MLAC Product Support	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.210	-	-	0.000	-	-	0.210
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	3.500	-	-	0.000	-	-	3.500
<i>Subtotal: Hardware - MLAC MICLIC Arresting Cable Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	3.500	-	-	0.000	-	-	3.500
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	11.500	-	-	23.594	-	-	0.164	-	-	23.758

^(†) 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: 1508N / 02 / 1			P-1 Line Item Number / Title: 1550 / Combat Support Munitions					Item Number / Title [DODIC]: 1 / Linear Charges, All Types				
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
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP)		2018	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL	May 2018	May 2020	158	28,742.04	Y		
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP)		2019	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL	Mar 2019	Sep 2020	244	25,416.00	Y		
1.1.2) M913 COMP C-4 CLASS 3		2018	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL	Mar 2018	Jun 2018	292,593	16.93	Y		
1.1.2) M913 COMP C-4 CLASS 3		2019	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL	Mar 2019	Jun 2019	459,261	16.98	Y		
1.1.3) M913 FUZE ELECTRIC M113A4 GFM		2018	GFM / N/A	TBD	ROCK ISLAND ARSENAL	May 2018	May 2019	158	3,111.68	Y		
1.1.3) M913 FUZE ELECTRIC M113A4 GFM		2019	TBD / TBD	TBD	ROCK ISLAND ARSENAL	Mar 2019	Mar 2020	248	3,176.14	Y		
2.1.1) MN79 COMPLETE ROUND		2018	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL	May 2018	Aug 2020	121	12,288.75	Y		
2.1.1) MN79 COMPLETE ROUND		2019	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL	Mar 2019	Sep 2020	379	13,098.91	Y		
2.1.1) MN79 COMPLETE ROUND	✓	2019	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL	Mar 2019	Sep 2020	12	13,098.91	Y		
3.1.1) MLAC Complete Round		2019	Indian Head / Indian Head	C / TBD	Indian Head	Dec 2018	Jun 2019	470	7,000.00	Y		

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Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1550 / Combat Support Munitions						Item Number / Title [DODIC]: 2 / Grenades, All Types								
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			0.000			0.288			7.500			0.000			7.500		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000			0.000			0.288			7.500			0.000			7.500		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				0.000			0.000			0.288			7.500			0.000			7.500		
(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 - G881, GREN HAND, FRAG M67 W/ CONF CLIP Cost																					
Recurring Cost																					
1.1.1) G881 - GREN HAND, FRAG M67 W/ CONF CLIP - LOAD, ASSEMBLE, AND PACK ^(t)		-	-	0.000	-	-	0.000	-	-	0.000	43.15	31,614	1.364	-	-	0.000	43.15	31,614	1.364		
1.1.2) G881 - GREN HAND, FRAG M67 W/ CONF CLIP - PRODUCTION ENGINEERING		-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.635	-	-	0.000	-	-	0.635		
1.1.3) G881 - GREN HAND, FRAG M67 W/ CONF CLIP - QUALITY ASSURANCE		-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.001	-	-	0.000	-	-	0.001		
Subtotal: Recurring Cost		-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.000	-	-	0.000	-	-	2.000		
Subtotal: Hardware - G881, GREN HAND, FRAG M67 W/ CONF CLIP Cost		-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.000	-	-	0.000	-	-	2.000		
Hardware - G945, GREN HAND, SMOKE M18 YELLOW Cost																					
Recurring Cost																					
3.1.1) G945 - GREN HAND, SMOKE YELLOW M18 - PRODUCTION ENGINEERING		-	-	0.000	-	-	0.000	-	-	0.277	-	-	0.000	-	-	0.000	-	-	0.000		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1550 / Combat Support Munitions						Item Number / Title [DODIC]: 2 / Grenades, All Types						
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)
3.1.2) G945 - GREN HAND, SMOKE YELLOW M18 - QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.011	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.288	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware - G945, GREN HAND, SMOKE M18 YELLOW Cost	-	-	0.000	-	-	0.000	-	-	0.288	-	-	0.000	-	-	0.000	-	-	0.000
Hardware - GG24, GREN 66MM, SMOKE SCREENING VEL. LAUNCHED, MK1 MOD0 Cost																		
Recurring Cost																		
6.1.1) GG24 - GREN 66MM, SSVL MK1 MOD0 - LOAD, ASSEMBLE, AND PACK ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	247.28	22,202	5.490	-	-	0.000	247.28	22,202	5.490
6.1.2) GG24 - GREN 66MM, SSVL MK1 MOD0 - PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.005	-	-	0.000	-	-	0.005
6.1.3) GG24 - GREN 66MM, SSVL MK1 MOD0 - QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.005	-	-	0.000	-	-	0.005
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	5.500	-	-	0.000	-	-	5.500
Subtotal: Hardware - GG24, GREN 66MM, SMOKE SCREENING VEL. LAUNCHED, MK1 MOD0 Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	5.500	-	-	0.000	-	-	5.500
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	0.288	-	-	7.500	-	-	0.000	-	-	7.500
(†) indicates the presence of a P-5a																		

^(†) 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: 1508N / 02 / 1			P-1 Line Item Number / Title: 1550 / Combat Support Munitions						Item Number / Title [DODIC]: 2 / Grenades, All Types			
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
1.1.1) G881 - GREN HAND, FRAG M67 W/ CONF CLIP - LOAD, ASSEMBLE, AND PACK ^(†)		2019	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX@Camden AR / UNKNOWN	C / FFP	ROCK ISLAND ARSENAL	Mar 2019	Nov 2021	31,614	43.15	Y		Jan 2019
6.1.1) GG24 - GREN 66MM, SSVL MK1 MOD0 - LOAD, ASSEMBLE, AND PACK ^(†)		2019	AMERICAN RHEINMETALL MUNITIONS@STAFFORD, VA / NEUEMBURG, GERMANY	C / FFP	MCSC, Quantico, VA	Mar 2019	Mar 2020	22,202	247.28	N		Jan 2019

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018															
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1550 / Combat Support Munitions										Item Number / Title [DODIC]: 2 / Grenades, All Types															
Cost Elements (Units in Thousands)							Fiscal Year 2019													Fiscal Year 2020													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 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					
1.1.1) G881 - GREN HAND, FRAG M67 W/ CONF CLIP - LOAD, ASSEMBLE, AND PACK																																			
	1	2019	NAVY	31.614	.000	31.614							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.614		
6.1.1) GG24 - GREN 66MM, SSVL MK1 MOD0 - LOAD, ASSEMBLE, AND PACK																																			
	2	2019	NAVY	22.202	.000	22.202							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.819	1.853	1.853	1.853	1.853	1.853	1.853	9.265
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1550 / Combat Support Munitions										Item Number / Title [DODIC]: 2 / Grenades, All Types														
Cost Elements (Units in Thousands)							Fiscal Year 2021													Fiscal Year 2022													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022														
							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				
1.1.1) G881 - GREN HAND, FRAG M67 W/ CONF CLIP - LOAD, ASSEMBLE, AND PACK																																		
	1	2019	NAVY	31.614	.000	31.614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.614													.000
6.1.1) GG24 - GREN 66MM, SSVL MK1 MOD0 - LOAD, ASSEMBLE, AND PACK																																		
	2	2019	NAVY	22.202	12.937	9.265	1.853	1.853	1.853	1.853	1.853																							.000
							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: 1508N / 02 / 1					P-1 Line Item Number / Title: 1550 / Combat Support Munitions				Item Number / Title [DODIC]: 2 / Grenades, All Types			
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	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX@Camden AR - UNKNOWN	30,000	50,000	100,000	8	8	24	32	6	6	18	24
2	AMERICAN RHEINMETALL MUNITIONS@STAFFORD, VA - NEUEMBURG, GERMANY	2,000	12,000	25,000	8	8	18	26	6	6	12	18

"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-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1550 / Combat Support Munitions						Item Number / Title [DODIC]: 3 / Demolition Munitions, All Types						
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		0.000		0.000		0.483		0.000		0.483				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000		0.000		0.000		0.483		0.000		0.483				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				0.000		0.000		0.000		0.483		0.000		0.483				
(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 - DWDN Light Weight Disposable Disrupter Cost																		
Recurring Cost																		
1.1.1) DWDN Complete round ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	200.29	2,396	0.480	-	-	0.000	200.29	2,396	0.480
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.480	-	-	0.000	-	-	0.480
Subtotal: Hardware - DWDN Light Weight Disposable Disrupter Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.480	-	-	0.000	-	-	0.480
Hardware - AX14 Primer Cost																		
Recurring Cost																		
2.1.1) AX14 Complete Round	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.000	-	-	0.003
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.000	-	-	0.003
Subtotal: Hardware - AX14 Primer Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.000	-	-	0.003
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.483	-	-	0.000	-	-	0.483
†) indicates the presence of a P-5a																		

^(†) 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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1550 / Combat Support Munitions				Item Number / Title [DODIC]: 3 / Demolition Munitions, All Types				
Cost Elements	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
1.1.1) DWDN Complete round		2019	TBD / TBD	C / FFP	PICATINNY ARSENAL, NJ	May 2019	Aug 2020	2,396	200.29	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1625 / Fuze, All Types					
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>	174.538	20.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	195.395
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	174.538	20.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	195.395
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	174.538	20.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	195.395
<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 procures fuzes for the 155mm artillery munitions. The XM1156 PGK Fuze is a deep intrusion precision guided fuze, designed for use with the M795 High Explosive (HE) and M549A1 High Explosive Rocket Assisted (HERA) projectiles in the M777A2 155mm Howitzer. It is intended to be used against normal HE target sets. The XM1156 PGK Fuze will only be set with the M1155A1 Enhanced Portable Inductive Artillery Fuze Setter (EPIAFS). The fuze modes for the XM1156 PGK Fuze include Point Detonating (PD) and Proximity (VT). The XM1156 PGK Fuze weighs 4.6 pounds (2.09 kilograms) with the canard cover in place and is 11.93 inches (30.3 centimeters) long with the canard cover in place. It contains a Height of Burst (HOB) sensor and Global Positioning System (GPS). The Fuze, Point Detonating (PD) M739/M739A1 N340 is the latest improved version of the selective impact fuzes for use with bulk loaded high explosive or burster type projectiles. The fuze body is a one-piece design of solid aluminum and has a standard 2-inch threaded base to match the nose and fuze cavity of standard artillery projectiles.												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1625 / Fuze, All Types				
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 / Fuze, All Types	P-5a, P-21			- / 174.538	- / 20.857	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 174.538	- / 20.857	- / 0.000	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

The funds in FY18 and out have been realigned to line item 1650.

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1625 / Fuze, All Types						Item Number / Title [DODIC]: 1 / Fuze, All Types						
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>				174.538		20.857		0.000		0.000		0.000		0.000				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				174.538		20.857		0.000		0.000		0.000		0.000				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				174.538		20.857		0.000		0.000		0.000		0.000				
(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)
Hardware - N340 FUZE PD M739A1 Cost																		
Recurring Cost																		
1.1.1) N340 COMPLETE ROUND ^(†)	58.41	1,031,558	60.256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) N340 PRODUCTION ENGINEERING	-	-	3.308	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) N340 ACCEPTANCE TESTING	-	-	2.847	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	66.411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - N340 FUZE PD M739A1 Cost	-	-	66.411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - NA29 PRECISION GUIDED KIT (NPGK) Cost																		
Recurring Cost																		
2.1.1) NA29 COMPLETE FUZE ^(†) (1)	10,324.74	9,346	96.495	8,691.52	1,857	16.141	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) NA29 PRODUCTION ENGINEERING	-	-	4.931	-	-	1.966	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) NA29 ACCEPTANCE TESTING	-	-	3.698	-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Navy														Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1625 / Fuze, All Types							Item Number / Title [DODIC]: 1 / Fuze, All Types				
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)
2.1.4) NA29 ENGINEER CHANGE PROPOSAL	-	-	2.128	-	-	1.250	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>107.252</i>	-	-	<i>20.857</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - NA29 PRECISION GUIDED KIT (NPGK) Cost</i>	-	-	<i>107.252</i>	-	-	<i>20.857</i>	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Recurring Cost																		
3.1.1) Prior Years Cumulative Funding	-	-	0.875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.875</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost</i>	-	-	<i>0.875</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	174.538	-	-	20.857	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

(†) indicates the presence of a P-5a

Footnotes:

(1) Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys. The unit cost will fluctuate depending on the total of PGK (NA29) procurement. Production engineering, acceptance testing and engineer change proposal increases in FY 2017 are to support the planned delivery schedule.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1625 / Fuze, All Types					Item Number / Title [DODIC]: 1 / Fuze, All Types				
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
1.1.1) N340 COMPLETE ROUND ^(†)	✓	2015	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2015	Dec 2017	20,003	72.48	Y		
1.1.1) N340 COMPLETE ROUND ^(†)		2016	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Jul 2016	Jul 2019	126,480	74.46	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)		2014 ⁽²⁾	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Feb 2015	Oct 2017	2,185	8,938.00	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)		2015	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Feb 2015	Oct 2017	606	8,017.77	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)		2016	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Mar 2016	Nov 2018	1,794	8,638.32	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)	✓	2016	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Mar 2016	Jan 2019	360	8,638.32	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)		2017	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Mar 2017	Mar 2019	1,833	8,691.52	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)	✓	2017	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Mar 2017	Mar 2019	24	8,691.52	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽²⁾ Date of first delivery changed from Jun 16 to Oct 17 due to Lot Acceptance Test (LAT) acceptance delivery. LAT acceptance delivery has been scheduled for Jun 17 vs Jun 16.

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Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1625 / Fuze, All Types													Item Number / Title [DODIC]: 1 / Fuze, All Types												
Cost Elements (Units in Thousands)							Fiscal Year 2015												Fiscal Year 2016												BALANCE				
OCCO	MFR#	FY	SERVICE	PROCQTY	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					
1.1.1) N340 COMPLETE ROUND																																			
Prior Years Deliveries: 885075																																			
✓	1	2015	NAVY	20.003 (3)	.000	20.003							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.003			
	1	2016	NAVY	126.480	.000	126.480																									A -	-	-	-	126.480
2.1.1) NA29 COMPLETE FUZE ⁽¹⁾																																			
Prior Years Deliveries: 4401																																			
	2	2014	NAVY	2.185	.000	2.185							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.185			
	2	2015	NAVY	.606	.000	.606							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.606			
	2	2016	NAVY	1.794	.000	1.794																			A -	-	-	-	-	-	-	1.794			
✓	2	2016	NAVY	.360	.000	.360																			A -	-	-	-	-	-	-	.360			
	2	2017	NAVY	1.833	.000	1.833																											1.833		
✓	2	2017	NAVY	.024	.000	.024																											.024		
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1625 / Fuze, All Types														Item Number / Title [DODIC]: 1 / Fuze, All Types													
Cost Elements <i>(Units in Thousands)</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													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
1.1.1) N340 COMPLETE ROUND																																					
Prior Years Deliveries: 885075																																					
✓	1	2015	NAVY		20.003 (3)	.000	20.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000	
	1	2016	NAVY		126.480	.000	126.480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126.480
2.1.1) NA29 COMPLETE FUZE ⁽¹⁾																																					
Prior Years Deliveries: 4401																																					
	2	2014	NAVY		2.185	.000	2.185	-	-	-	-	-	-	-	-	-	-	-	-	.101	1.100	.984													.000		
	2	2015	NAVY		.606	.000	.606	-	-	-	-	-	-	-	-	-	-	-	-	.177	.177	.177	.075												.000		
	2	2016	NAVY		1.794	.000	1.794	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.794		
✓	2	2016	NAVY		.360	.000	.360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.360		
	2	2017	NAVY		1.833	.000	1.833					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.833			
✓	2	2017	NAVY		.024	.000	.024					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.024			
								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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1625 / Fuze, All Types										Item Number / Title [DODIC]: 1 / Fuze, All Types												
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2019										Fiscal Year 2020														B A L A N C E	
O C 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		
1.1.1) N340 COMPLETE ROUND																																
Prior Years Deliveries: 885075																																
✓	1	2015	NAVY		20.003 (3)	20.003	.000																								.000	
	1	2016	NAVY	126.480		.000	126.480	-	-	-	-	-	-	-	-	5.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	1.480						.000		
2.1.1) NA29 COMPLETE FUZE ⁽¹⁾																																
Prior Years Deliveries: 4401																																
	2	2014	NAVY		2.185	2.185	.000																								.000	
	2	2015	NAVY		.606	.606	.000																								.000	
	2	2016	NAVY		1.794	.000	1.794	-	.290	.290	.290	.290	.289	.289	.056																	.000
✓	2	2016	NAVY		.360	.000	.360	-	-	-	.056	.056	.055	.055	.055	.055	.028														.000	
	2	2017	NAVY		1.833	.000	1.833	-	-	-	-	-	.075	.100	.230	.230	.230	.230	.230	.230	.048										.000	
✓	2	2017	NAVY		.024	.000	.024	-	-	-	-	-	.024																		.000	
								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: 1508N / 02 / 1					P-1 Line Item Number / Title: 1625 / Fuze, All Types				Item Number / Title [DODIC]: 1 / Fuze, All Types		

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	ACTION MANUFACTURING INC - PHILADELPHIA, PA	200,000	400,000	800,000	6	6	36	42	0	0	18	18
2	ALLIANT TECH SYSTEMS INC - PLYMOUTH, MN	300	1,100	2,550	13	9	20	29	12	6	10	16

"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:

⁽³⁾ This does not include other services production deliveries.

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

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1630 / Ammo Modernization

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>)	66.090	13.396	17.862	15.001	0.000	15.001	14.721	15.079	15.425	15.807	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	66.090	13.396	17.862	15.001	0.000	15.001	14.721	15.079	15.425	15.807	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	66.090	13.396	17.862	15.001	0.000	15.001	14.721	15.079	15.425	15.807	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.056 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.

Ammunition Modernization consists of the procurement of components, end item modernization, repacking of modernized material and upgrading ammunition stocks suspended from use, and/or declared unsafe or unserviceable for ammunition, rockets, line charges, components, missiles, and quality evaluation. This line supports the technical efforts that the Naval Surface Warfare Centers (NSWC) Corona, Crane and Dahlgren Divisions execute in support of Marine Corps ground delivered class V(W) ammunition systems assessment, test and evaluation, and engineering support.

This funding supports these life cycle management functions to maintain the USMC ammunition inventory through quality assurance programs which are vital to predicting service life trends and keeping the warfighter safe during training and operational scenarios.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1630 / Ammo Modernization				
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	Ammo Modernization				- / 66.090	- / 13.396	- / 17.862	- / 15.001	- / -	- / 15.001
P-40	Total Gross/Weapon System Cost				- / 66.090	- / 13.396	- / 17.862	- / 15.001	- / 0.000	- / 15.001
*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: In FY 2019 Ammunition Modernization funding will support the modernization of ammunition including, rockets, line charges, components, missiles and quality evaluation. Funding will support the efforts associated with service life accelerated age testing, malfunctions, and quality assurance. The quality assurance program ascertains the safety, reliability, performance, and combat readiness of ammunition assets. Ammo modernization addresses life cycle management of ammunition through cyclic tests, surveillance, and destructive testing (degradation and trends). The USMC has experienced historically high procurements of ammunition and as result has a robust inventory. With its procurement dollars reduced it is necessary to protect its previous investments with an appropriate surveillance, quality assurance and maintenance program.										

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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: 1508N / 02 / 1							P-1 Line Item Number / Title: 1630 / Ammo Modernization							Aggregated Items Title: Ammo Modernization						
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) Ammo Modernization																				
1.1) AM01, 40MM AMMO MOD	A		-	-	6.815	-	-	2.066	-	-	2.873	-	-	0.570	-	-	-	-	-	0.570
1.2) AM02, ROCKETS AMMO MOD	A		-	-	13.494	-	-	3.433	-	-	2.878	-	-	2.847	-	-	-	-	-	2.847
1.3) AM03, LINE CHARGE AMMO MOD	A		-	-	7.149	-	-	1.094	-	-	3.115	-	-	2.982	-	-	-	-	-	2.982
1.4) AM04, COMPONENTS AMMO MOD	A		-	-	8.551	-	-	1.815	-	-	2.963	-	-	2.933	-	-	-	-	-	2.933
1.5) AM05, MISSILE COMP AMMO MOD	A		-	-	11.632	-	-	3.830	-	-	3.124	-	-	2.805	-	-	-	-	-	2.805
1.6) AM06, QUAL EVAL AMMO MOD	A		-	-	18.373	-	-	1.158	-	-	2.909	-	-	2.864	-	-	-	-	-	2.864
1.7) AMMO, AMMO MOD	A		-	-	0.076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Ammo Modernization			-	-	66.090	-	-	13.396	-	-	17.862	-	-	15.001	-	-	-	-	-	15.001
Total			-	-	66.090	-	-	13.396	-	-	17.862	-	-	15.001	-	-	-	-	-	15.001

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: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1650 / Artillery Munitions					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	89.699	86.297	31.001	117.298	176.416	168.659	204.451	203.014	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	89.699	86.297	31.001	117.298	176.416	168.659	204.451	203.014	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	89.699	86.297	31.001	117.298	176.416	168.659	204.451	203.014	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:
Beginning in FY18 this funding line represents a consolidation of ammunition line items by functional capability.

The family of artillery cartridges includes all 155mm artillery ammunition components. The 155mm artillery components are fired from M777 howitzers, and include: primer, propellant, projectile, and fuze. High explosive artillery ammunition is used against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications installations, and mechanized and armored forces. Precision-guided artillery provides accurate, first round fire-for-effect capability, and can achieve reduced collateral damage. Illumination cartridges are used to illuminate the battlefield with light either in visual or near Infrared Spectrum. Smoke cartridges are used to provide obscuration on the battlefield and to mark locations. Included are artillery fuzes such as; point detonating, multi-option, electronic time and precision guided.

Funds prior to FY18 are contained in line items 1473 and 1625.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1650 / Artillery Munitions				
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	Artillery, All Types	P-5a, P-21			- / 0.000	- / -	- / 69.373	- / 72.701	- / 31.001	- / 103.702
P-5	1 / Fuze, All Types	P-5a, P-21			- / 0.000	- / 0.000	- / 20.326	- / 13.596	- / 0.000	- / 13.596
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 89.699	- / 86.297	- / 31.001	- / 117.298
*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: FY 2019 Baseline Appropriation Request: Funding will support the procurement of 155mm High Explosive (HE) M795 with IMX-101 (DODIC DA54). The DA54 is the prime round for the Light Weight 155mm Cannon/Howitzer/Gun/Artillery piece. The funding will be also support the procurement of 155mm HE Training Projectile M1122 (DA51) and various types of 155mm ammunition. FY 2019 baseline funding will also support the procurement of the Precision Guidance Kit (PGK) DODIC NA29. This technology provides a first-of-its-kind "near-precision" capability. PGK contains a Global Positioning System (GPS) guidance kit with fuzing functions and an integrated GPS receiver to correct the inherent errors associated with ballistic firing solutions. The PGK capability is essential to providing commanders the ability to engage assigned targets while minimizing collateral damage and reducing the number of artillery projectiles required to attack targets. OCO: FY 2019 OCO supports procurement of reset munitions 155mm High Explosive HE M795 with IMX-101 expended in theater in support of Operation Inherent Resolve (OIR).										

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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: 1508N / 02 / 1								P-1 Line Item Number / Title: 1650 / Artillery Munitions							Aggregated Items Title: Artillery, All Types ⁽¹⁾					
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) D529 155mm HE M795 w/TNT																				
1.1) D529 M795 Metal Parts ^(†)	A		-	-	-	-	-	-	465.00	51,723	24.051	-	-	-	-	-	-	-	-	-
1.2) D529 M795 LAP ^(†)	A		-	-	-	-	-	-	443.72	55,012	24.410	-	-	-	-	-	-	-	-	-
1.3) D529 TNT Supplemental Charge ^(†)	A		-	-	-	-	-	-	16.19	51,723	0.837	-	-	-	-	-	-	-	-	-
1.4) D529 Wooden Pallets ^(†)	A		-	-	-	-	-	-	89.74	7,189	0.645	-	-	-	-	-	-	-	-	-
1.5) D529 Production Engineering	A		-	-	-	-	-	-	-	-	1.107	-	-	-	-	-	-	-	-	-
1.6) D529 Acceptance Testing	A		-	-	-	-	-	-	-	-	0.473	-	-	-	-	-	-	-	-	-
Subtotal: 1) D529 155mm HE M795 w/ TNT			-	-	0.000	-	-	-	-	-	51.523	-	-	-	-	-	-	-	-	-
2) DA51 155mm HE Training Projectile M1122																				
2.3) DA51 Load, Assemble & Pack (LAP) ^(†)	A		-	-	-	-	-	-	325.00	30,000	9.750	323.77	30,235	9.789	-	-	-	323.77	30,235	9.789
2.4) DA51 Wooden Pallet ^(†)	A		-	-	-	-	-	-	100.00	4,340	0.434	117.30	3,935	0.462	-	-	-	117.30	3,935	0.462
2.5) DA51 Plug, Lifting, Melttable for IM ^(†)	A		-	-	-	-	-	-	12.00	34,055	0.409	10.14	30,859	0.313	-	-	-	10.14	30,859	0.313
2.6) DA51 Supplemental Charge, PBXNg ^(†)	A		-	-	-	-	-	-	35.34	34,055	1.204	20.40	30,859	0.630	-	-	-	20.40	30,859	0.630
2.7) DA51 TNT Type I Flake ^(†)	A		-	-	-	-	-	-	2.48	100,162	0.248	6.30	70,705	0.445	-	-	-	6.30	70,705	0.445
2.8) DA51 Production Engineering	A		-	-	-	-	-	-	-	-	0.852	-	-	0.241	-	-	-	-	-	0.241
Subtotal: 2) DA51 155mm HE Training Projectile M1122			-	-	0.000	-	-	-	-	-	12.897	-	-	11.880	-	-	-	-	-	11.880
3) DA54 155mm HE M795 W/IMX																				
3.1) DA54 Supplementary Charge, PBXNg ^(†)	A		-	-	-	-	-	-	-	-	-	20.39	40,505	0.826	20.38	23,695	0.483	20.39	64,200	1.309
3.2) DA54 Load, Assemble, Pack (LAP) ^(†)	A		-	-	-	-	-	-	-	-	-	239.25	39,711	9.501	239.26	23,230	5.558	239.26	62,941	15.059

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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: 1508N / 02 / 1						P-1 Line Item Number / Title: 1650 / Artillery Munitions									Aggregated Items Title: Artillery, All Types ⁽¹⁾					
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) DA54 M795 IM Metal Part ^(†)	A		-	-	-	-	-	-	-	-	-	436.91	40,505	17.697	436.89	23,695	10.352	436.90	64,200	28.049
3.4) DA54 Plug, Lifting, Meltable for IM ^(†)	A		-	-	-	-	-	-	-	-	-	10.20	40,505	0.413	10.17	23,695	0.241	10.19	64,200	0.654
3.5) DA54 Explosive Fill IMX 104 ^(†)	A		-	-	-	-	-	-	-	-	-	27.57	39,711	1.095	27.55	23,230	0.640	27.57	62,941	1.735
3.6) DA54 Wooden Pallets ^(†)	A		-	-	-	-	-	-	-	-	-	101.90	5,162	0.526	102.00	3,020	0.308	101.93	8,182	0.834
3.7) DA54 Explosive Fill IMX-101 ^(†)	A		-	-	-	-	-	-	-	-	-	17.34	1,310,463	22.723	17.34	766,590	13.292	17.34	2,077,053	36.015
3.8) DA54 Production Engineering			-	-	-	-	-	-	-	-	-	-	-	5.835	-	-	0.001	-	-	5.836
3.9) DA54 Acceptance Testing			-	-	-	-	-	-	-	-	-	-	-	0.205	-	-	0.126	-	-	0.331
Subtotal: 3) DA54 155mm HE M795 W/IMX			-	-	0.000	-	-	-	-	-	-	-	-	58.821	-	-	31.001	-	-	89.822
5) D528 M825 WP SMK																				
5.1) D528 M825 Projectile Recap ^(†)	A		-	-	-	-	-	-	-	-	-	357.85	5,589	2.000	-	-	-	357.85	5,589	2.000
Subtotal: 5) D528 M825 WP SMK			-	-	0.000	-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	2.000
9) DA58 155mm Extended Range, M982 Excalibur 1B																				
9.1) DA58 Complete Round ^(†)	A		-	-	-	-	-	-	99,060.00	50	4.953	-	-	-	-	-	-	-	-	-
Subtotal: 9) DA58 155mm Extended Range, M982 Excalibur 1B			-	-	0.000	-	-	-	-	-	4.953	-	-	-	-	-	-	-	-	-
Total			-	-	0.000	-	-	-	-	-	69.373	-	-	72.701	-	-	31.001	-	-	103.702
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⁾ Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys.																				

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1650 / Artillery Munitions					Aggregated Items: Artillery, All Types ⁽¹⁾			
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) D529 155mm HE M795 w/TNT												
1.1) D529 M795 Metal Parts ^(†)		2018	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	49,110	465.00	Y		
1.1) D529 M795 Metal Parts ^(†)	✓	2018	TO BE SELECTED / TBD	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	2,613	465.00	Y		
1.2) D529 M795 LAP ^(†)		2018	AMERICAN ORDANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2018	Mar 2020	48,173	443.72	Y		
1.2) D529 M795 LAP ^(†)	✓	2018	AMERICAN ORDANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2018	Mar 2020	6,839	443.72	Y		
1.3) D529 TNT Supplemental Charge		2018	TO BE SELECTED / UNKNOWN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	49,110	16.19	N	Sep 2020	
1.3) D529 TNT Supplemental Charge	✓	2018	TO BE SELECTED / UNKNOWN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	2,613	16.19	Y		
1.4) D529 Wooden Pallets		2018	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	6,259	89.74	N	Sep 2020	
1.4) D529 Wooden Pallets	✓	2018	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	930	89.74	Y		
2) DA51 155mm HE Training Projectile M1122												
2.3) DA51 Load, Assemble & Pack (LAP) ^(†)		2018	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2018	Mar 2020	30,000	325.00	Y		
2.3) DA51 Load, Assemble & Pack (LAP) ^(†)		2019	TO BE SELECTED / To Be Selected	C / IDIQ	PICATINNY ARSENAL, NJ	May 2019	May 2021	30,235	323.77	Y		
2.4) DA51 Wooden Pallet		2018	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2018	Sep 2019	4,340	100.00	Y		
2.4) DA51 Wooden Pallet		2019	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	3,935	117.30	Y		
2.5) DA51 Plug, Lifting, Meltable for IM		2018	TO BE SELECTED / UNKNOWN	C / FFP	PICATINNY ARSENAL, NJ	Feb 2018	Aug 2019	34,055	12.00	Y		
2.5) DA51 Plug, Lifting, Meltable for IM		2019	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	30,859	10.14	Y		
2.6) DA51 Supplemental Charge, PBXN9		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	34,055	35.34	Y		
2.6) DA51 Supplemental Charge, PBXN9		2019	CHEMRING ORDANCE INC / PERRY, FL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Mar 2020	30,859	20.40	Y		
2.7) DA51 TNT Type I Flake		2018	GOVERNMENT FURNISHED MATERIAL / TBD	TBD	PICATINNY ARSENAL, NJ	Oct 2017	Oct 2017	100,162	2.48	N	Oct 2018	
2.7) DA51 TNT Type I Flake		2019	GOVERNMENT FURNISHED MATERIAL / TBD	TBD	PICATINNEY ARSENAL	Oct 2018	Oct 2018	70,705	6.30	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1650 / Artillery Munitions					Aggregated Items: Artillery, All Types ⁽¹⁾				
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) DA54 155mm HE M795 W/IMX												
3.1) DA54 Supplementary Charge, PBXN9		2019	New MFG - Name / New MFG - Loc	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Oct 2020	40,505	20.39	Y		
3.1) DA54 Supplementary Charge, PBXN9	✓	2019	New MFG - Name / New MFG - Loc	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2019	Oct 2020	23,695	20.38	Y		
3.2) DA54 Load, Assemble, Pack (LAP) ^(†)		2019	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2019	May 2022	39,711	239.25	Y		
3.2) DA54 Load, Assemble, Pack (LAP) ^(†)	✓	2019	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2019	May 2022	23,230	239.26	Y		
3.3) DA54 M795 IM Metal Part		2019	TBD / TBD	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	40,505	436.91	Y		
3.3) DA54 M795 IM Metal Part	✓	2019	TBD / TBD	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	23,695	436.89	Y		
3.4) DA54 Plug, Lifting, Meltable for IM		2019	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	40,505	10.20	Y		
3.4) DA54 Plug, Lifting, Meltable for IM	✓	2019	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2019	Sep 2020	23,695	10.17	Y		
3.5) DA54 Explosive Fill IMX 104		2019	TBD / TBD	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	39,711	27.57	Y		
3.5) DA54 Explosive Fill IMX 104	✓	2019	TBD / TBD	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2020	23,230	27.55	Y		
3.6) DA54 Wooden Pallets		2019	TBD / TBD	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2019	Mar 2020	5,162	101.90	Y		
3.6) DA54 Wooden Pallets	✓	2019	TBD / TBD	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2019	Mar 2020	3,020	102.00	Y		
3.7) DA54 Explosive Fill IMX-101 ^(†)		2019	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2021	1,310,463	17.34	Y		
3.7) DA54 Explosive Fill IMX-101 ^(†)	✓	2019	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2019	Sep 2021	766,590	17.34	Y		
5) D528 M825 WP SMK												
5.1) D528 M825 Projectile Recap		2019	TBD / TBD	C / TBD	ROCK ISLAND ARSENAL, IL	Oct 2018	Oct 2019	5,589	357.85	Y		
9) DA58 155mm Extended Range, M982 Excalibur 1B												
9.1) DA58 Complete Round		2018	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE@ORLANDO, FL / TUSCON, AZ	C / FFP	PICATINNY ARSENAL, NJ	May 2018	Nov 2018	50	99,060.00	Y		
^(†) indicates the presence of a P-21												

^(†) indicates the presence of a P-21

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1650 / Artillery Munitions	Aggregated Items: Artillery, All Types ⁽¹⁾

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Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1650 / Artillery Munitions													Aggregated Items: Artillery, All Types ⁽¹⁾														
Items <i>(Units in Millions, * = < 500)</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) D529 155mm HE M795 w/TNT																																					
1.1) D529 M795 Metal Parts																																					
	43	2018	NAVY		.049	.000	.049							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.018	.018	.013				
✓	43	2018	NAVY		.003	.000	.003							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.003		.000				
1.2) D529 M795 LAP																																					
	44	2018	NAVY		.048	.000	.048							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.048				
✓	44	2018	NAVY		.007	.000	.007							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.007				
2) DA51 155mm HE Training Projectile M1122																																					
2.3) DA51 Load, Assemble & Pack (LAP)																																					
	45	2018	NAVY		.030	.000	.030							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.030				
	46	2019	NAVY		.030	.000	.030																					A -	-	-	-	-	-	.030			
3) DA54 155mm HE M795 W/IMX																																					
3.2) DA54 Load, Assemble, Pack (LAP)																																					
	47	2019	NAVY		.040	.000	.040																					A -	-	-	-	-	-	.040			
✓	47	2019	NAVY		.023	.000	.023																					A -	-	-	-	-	-	.023			
3.7) DA54 Explosive Fill IMX-101																																					
	48	2019	NAVY		1.310	.000	1.310																			A -	-	-	-	-	-	-	1.310				
✓	48	2019	NAVY		.767	.000	.767	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	.767					

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Exhibit P-21, Production Schedule: PB 2019 Navy																								Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1650 / Artillery Munitions														Aggregated Items: Artillery, All Types ⁽¹⁾									
Items (Units in Millions, * = < 500)							Fiscal Year 2020										Fiscal Year 2021														BALANCE		
OCO	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021																
							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) D529 155mm HE M795 w/TNT																																	
1.1) D529 M795 Metal Parts																																	
	43	2018	NAVY	.049	.036	.013																									.000		
✓	43	2018	NAVY	.003	.003	.000																									.000		
1.2) D529 M795 LAP																																	
	44	2018	NAVY	.048	.000	.048	-	-	-	-	-	.028	.020																		.000		
✓	44	2018	NAVY	.007	.000	.007	-	-	-	-	-	.007																			.000		
2) DA51 155mm HE Training Projectile M1122																																	
2.3) DA51 Load, Assemble & Pack (LAP)																																	
	45	2018	NAVY	.030	.000	.030	-	-	-	-	-	.005	.005	.005	.005	.005	.005															.000	
	46	2019	NAVY	.030	.000	.030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.004	.004	.004	.004	.004	.010		
3) DA54 155mm HE M795 W/IMX																																	
3.2) DA54 Load, Assemble, Pack (LAP)																																	
	47	2019	NAVY	.040	.000	.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.040		
✓	47	2019	NAVY	.023	.000	.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.023		
3.7) DA54 Explosive Fill IMX-101																																	
	48	2019	NAVY	1.310	.000	1.310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.250	1.060		
✓	48	2019	NAVY	.767	.000	.767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.250	.517		
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1650 / Artillery Munitions													Aggregated Items: Artillery, All Types ⁽¹⁾											
Items (Units in Millions, * = < 500)							Fiscal Year 2022												Fiscal Year 2023													BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023															
							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) D529 155mm HE M795 w/TNT																																		
1.1) D529 M795 Metal Parts																																		
	43	2018	NAVY		.049	.049	.000																											.000
✓	43	2018	NAVY		.003	.003	.000																											.000
1.2) D529 M795 LAP																																		
	44	2018	NAVY		.048	.048	.000																											.000
✓	44	2018	NAVY		.007	.007	.000																											.000
2) DA51 155mm HE Training Projectile M1122																																		
2.3) DA51 Load, Assemble & Pack (LAP)																																		
	45	2018	NAVY		.030	.030	.000																											.000
	46	2019	NAVY		.030	.020	.010	.005	.005																									.000
3) DA54 155mm HE M795 W/IMX																																		
3.2) DA54 Load, Assemble, Pack (LAP)																																		
	47	2019	NAVY		.040	.000	.040	-	-	-	-	-	-	-	.008	.025	.007																	.000
✓	47	2019	NAVY		.023	.000	.023	-	-	-	-	-	-	-	.010	.010	.003																	.000
3.7) DA54 Explosive Fill IMX-101																																		
	48	2019	NAVY	1.310	.250	1.060	.250	.250	.250	.250	.060																							.000
✓	48	2019	NAVY	.767	.250	.517	.250	.250	.017																									.000
							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: 1508N / 02 / 1				P-1 Line Item Number / Title: 1650 / Artillery Munitions				Aggregated Items: Artillery, All Types ⁽¹⁾			

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	TO BE SELECTED - TBD	10,000	35,000	50,000	11	11	24	35	6	6	18	24
2	AMERICAN ORDANCE - MIDDLETOWN, IA	10,000	35,000	50,000	11	11	24	35	6	6	24	30
3	CRANE ARMY AMMUNITION ACTIVITY - CRANE, IN	5,000	5,000	30,000	12	18	14	32	12	12	24	36
4	TO BE SELECTED - To Be Selected				0	0	0	0	0	0	0	0
5	AMERICAN ORDNANCE - MIDDLETOWN, IA	12,000,000	25,000,000	35,000,000	6	6	24	30	6	6	24	30
6	BAE ORDNANCE SYSTEMS - KINGSPORT, TN				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-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1650 / Artillery Munitions						Item Number / Title [DODIC]: 1 / Fuze, All Types								
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			0.000			20.326			13.596			0.000			13.596		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000			0.000			20.326			13.596			0.000			13.596		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				0.000			0.000			20.326			13.596			0.000			13.596		
(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 - N340 Fuze Point Detonating M739A1 Cost																					
Recurring Cost																					
1.1.1) N340 Complete Fuze ⁽¹⁾		-	-	0.000	-	-	0.000	86.01	5,458	0.469	-	-	0.000	-	-	0.000	-	-	0.000		
1.1.2) N340 Productiong Engineering		-	-	0.000	-	-	0.000	-	-	0.013	-	-	0.000	-	-	0.000	-	-	0.000		
1.1.3) N340 Acceptance Testing		-	-	0.000	-	-	0.000	-	-	0.020	-	-	0.000	-	-	0.000	-	-	0.000		
Subtotal: Recurring Cost		-	-	0.000	-	-	0.000	-	-	0.502	-	-	0.000	-	-	0.000	-	-	0.000		
Subtotal: Hardware - N340 Fuze Point Detonating M739A1 Cost		-	-	0.000	-	-	0.000	-	-	0.502	-	-	0.000	-	-	0.000	-	-	0.000		
Hardware - NA29 Precisiong Guided Kit (NPGK) Cost																					
Recurring Cost																					
2.1.1) NA29 Complete Fuze ⁽¹⁾ (2)		-	-	0.000	-	-	0.000	9,145.58	2,069	18.922	9,145.94	1,261	11.533	-	-	0.000	9,145.94	1,261	11.533		
2.1.2) NA29 Production Engineering		-	-	0.000	-	-	0.000	-	-	0.291	-	-	0.325	-	-	0.000	-	-	0.325		
2.1.3) NA29 Acceptance Testing		-	-	0.000	-	-	0.000	-	-	0.270	-	-	0.304	-	-	0.000	-	-	0.304		
2.1.4) NA29 Engineering Change Proposal		-	-	0.000	-	-	0.000	-	-	0.341	-	-	1.434	-	-	0.000	-	-	1.434		
Subtotal: Recurring Cost		-	-	0.000	-	-	0.000	-	-	19.824	-	-	13.596	-	-	0.000	-	-	13.596		

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Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1650 / Artillery Munitions						Item Number / Title [DODIC]: 1 / Fuze, All Types						
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)
	Subtotal: Hardware - NA29 Precision Guided Kit (NPGK) Cost	-	-	0.000	-	-	0.000	-	-	19.824	-	-	13.596	-	-	0.000	-	-
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	20.326	-	-	13.596	-	-	0.000	-	-	13.596

Remarks:

Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys.

(t) indicates the presence of a P-5a

Footnotes:

(2) The unit cost will fluctuate depending on the total of PGK (NA29) procurement.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1650 / Artillery Munitions					Item Number / Title [DODIC]: 1 / Fuze, All Types				
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
1.1.1) N340 Complete Fuze ^(†)		2018	TO BE SELECTED / TBD	C / FFP	PICATINNY ARSENAL	May 2018	May 2021	5,458	86.01	N	May 2022	
2.1.1) NA29 Complete Fuze ^(†)		2018	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Mar 2018	Mar 2020	1,984	9,145.58	Y		
2.1.1) NA29 Complete Fuze ^(†)	✓	2018	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Mar 2018	Mar 2020	85	9,145.58	Y		
2.1.1) NA29 Complete Fuze ^(†)		2019	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Mar 2019	Mar 2021	1,261	9,145.94	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018																							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1650 / Artillery Munitions												Item Number / Title [DODIC]: 1 / Fuze, All Types																							
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2018												Fiscal Year 2019												B A L A N C E											
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019																							
							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												
1.1.1) N340 Complete Fuze																																										
	1	2018	NAVY	5,458	0	5,458													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,458						
2.1.1) NA29 Complete Fuze ⁽²⁾																																										
	2	2018	NAVY	1,984	0	1,984													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,984						
✓	2	2018	NAVY	85	0	85													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85						
	2	2019	NAVY	1,261	0	1,261																									A -	-	-	-	-	-	-	-	-	-	-	1,261
							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: 1508N / 02 / 1							P-1 Line Item Number / Title: 1650 / Artillery Munitions															Item Number / Title [DODIC]: 1 / Fuze, All Types											
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2020												Fiscal Year 2021												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021														
							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			
1.1.1) N340 Complete Fuze																																	
	1	2018	NAVY	5,458	0	5,458	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,458		0		
2.1.1) NA29 Complete Fuze ⁽²⁾																																	
	2	2018	NAVY	1,984	0	1,984	-	-	-	-	-	175	175	175	175	170	168	168	168	168	168	168	168	106									0
✓	2	2018	NAVY	85	0	85	-	-	-	-	-	64	2	2	2	2	2	2	2	2	2	2	2	1									0
	2	2019	NAVY	1,261	0	1,261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50	50	50	50	50	50		911	
							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: 1508N / 02 / 1										P-1 Line Item Number / Title: 1650 / Artillery Munitions										Item Number / Title [DODIC]: 1 / Fuze, All Types											
Cost Elements (Units in Each)							Fiscal Year 2022										Fiscal Year 2023										BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP
1.1.1) N340 Complete Fuze																															
	1	2018	NAVY	5,458	5,458	0																									0
2.1.1) NA29 Complete Fuze ⁽²⁾																															
	2	2018	NAVY	1,984	1,984	0																									0
✓	2	2018	NAVY	85	85	0																									0
	2	2019	NAVY	1,261	350	911	100	200	200	200	211																			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: 1508N / 02 / 1					P-1 Line Item Number / Title: 1650 / Artillery Munitions				Item Number / Title [DODIC]: 1 / Fuze, All Types			
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	TO BE SELECTED - TBD	20,000	35,000	40,000	8	8	36	44	8	8	36	44
2	ALLIANT TECH SYSTEMS INC - PLYMOUTH, MN	333	1,100	2,200	13	9	27	36	3	6	24	30

"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: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1660 / Items less than \$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>)	57.663	8.116	5.960	6.239	0.000	6.239	7.021	7.381	7.835	7.990	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	57.663	8.116	5.960	6.239	0.000	6.239	7.021	7.381	7.835	7.990	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	57.663	8.116	5.960	6.239	0.000	6.239	7.021	7.381	7.835	7.990	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2019 funding request was reduced by \$0.061 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.

Items Less Than \$5 Million (LT5M) supports Marine Corps Units that have niche ammunition requirements. The LT5M line item includes the Marine Corps (MC) Competition Shooting Team with ammunition loading equipment and unique precision ammunition components through small purchase orders and the small arms small purchase credit card. This line also includes First Destination Transportation Charge (FDTC) funds that are utilized for the distribution of Marine Corps' ammunition end items from manufacturing plants assembly points. The Marine Security Guard Battalion (MSGB) funds the Marine Security Guard Battalion ammunition requirements which are procured through the U.S. State Department. Counter-Drug Interdiction funds are provided by Office of the Secretary of Defense (OSD) to the Marine Corps in the year of execution to support drug interdiction requirements.

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Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition						P-1 Line Item Number / Title: 1660 / Items less than \$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 less than \$5 million				- / 57.663	- / 8.116	- / 5.960	- / 6.239	- / -	- / 6.239
P-40	Total Gross/Weapon System Cost				- / 57.663	- / 8.116	- / 5.960	- / 6.239	- / 0.000	- / 6.239
*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: FY 2019 Baseline funds will procure match ammunition and components for the Marine Corps Rifle Team. Funds will also provide First Destination Transportation (FDT) of items delivering in FY 2019 and MSGB ammunition requirements procured through the U.S. State Department.										

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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: 1508N / 02 / 1						P-1 Line Item Number / Title: 1660 / Items less than \$5 million						Aggregated Items Title: Items less than \$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) Items Less than \$5M																				
1.1) A001, RIFLE TEAM AMMUNITION	A		-	-	0.623	-	-	0.226	-	-	0.232	-	-	0.241	-	-	-	-	-	0.241
1.2) DRUG INT, DRUG INTERDICTION	A		-	-	4.439	-	-	3.547	-	-	-	-	-	-	-	-	-	-	-	-
1.3) FDTC, FIRST DESTINATION TRANSPORTATION CHARGE			-	-	44.389	-	-	2.846	-	-	4.558	-	-	4.833	-	-	-	-	-	4.833
1.4) MSGB, MARINE SECURITY GUARD BATTALION AMMO	A		-	-	4.012	-	-	1.497	-	-	1.170	-	-	1.165	-	-	-	-	-	1.165
1.5) NON-DISTR, Special Purpose MAGTF-Crisis Response	A		-	-	4.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Items Less than \$5M			-	-	57.663	-	-	8.116	-	-	5.960	-	-	6.239	-	-	-	-	-	6.239
Total			-	-	57.663	-	-	8.116	-	-	5.960	-	-	6.239	-	-	-	-	-	6.239

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

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