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**Department of Defense  
Fiscal Year (FY) 2018 Budget Estimates**

May 2017



**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 Navy (DON) is \$20,488.

The estimated total cost for supporting the DON budget justification material is approximately \$1,142,960 for the 2017 fiscal year. This includes \$76,659 in supplies and \$1,066,301 in labor.

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## Department of Defense Appropriations Act, 2018

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### **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, \$1,017,932,000, to remain available for obligation until September 30, 2020.

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Department of the Navy  
 FY 2018 President's Budget Request  
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 Total Obligational Authority  
 (Dollars in Thousands)

Appropriation -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
Procurement of Ammo, Navy & MC	771,265	650,681	703,781
Total Department of the Navy	771,265	650,681	703,781

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Department of the Navy  
 FY 2018 President's Budget Request  
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 Total Obligational Authority  
 (Dollars in Thousands)

Appropriation -----	FY 2017 PB Request with CR Adj OCO -----	FY 2017 Total PB Requests* with CR Adj OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj OCO -----
Procurement of Ammo, Navy & MC	117,966	175,966		175,966
Total Department of the Navy	117,966	175,966		175,966

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Department of the Navy  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

Appropriation -----	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA -----	FY 2017 Total PB Requests* with CR Adj Base + OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj Base + OCO -----
Procurement of Ammo, Navy & MC	768,647	879,747		879,747
Total Department of the Navy	768,647	879,747		879,747

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Department of the Navy  
FY 2018 President's Budget Request  
Exhibit P-1 FY 2018 President's Budget Request  
Total Obligational Authority  
(Dollars in Thousands)

Appropriation -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
Procurement of Ammo, Navy & MC	792,345	225,587	1,017,932
Total Department of the Navy	792,345	225,587	1,017,932

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Department of the Navy  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

Appropriation: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
01. Proc Ammo, Navy	557,272	469,072	510,572
02. Proc Ammo, MC	213,993	195,296	206,896
20. Undistributed		-13,687	-13,687
Total Procurement of Ammo, Navy & MC	771,265	650,681	703,781

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Department of the Navy  
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Appropriation: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2017 PB Request with CR Adj OCO -----	FY 2017 Total PB Requests* with CR Adj OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj OCO -----
01. Proc Ammo, Navy	60,903	118,903		118,903
02. Proc Ammo, MC	5,326	5,326		5,326
20. Undistributed	51,737	51,737		51,737
Total Procurement of Ammo, Navy & MC	117,966	175,966		175,966

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Appropriation: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA -----	FY 2017 Total PB Requests* with CR Adj Base + OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj Base + OCO -----
01. Proc Ammo, Navy	529,975	629,475		629,475
02. Proc Ammo, MC	200,622	212,222		212,222
20. Undistributed	38,050	38,050		38,050
Total Procurement of Ammo, Navy & MC	768,647	879,747		879,747

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Appropriation: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
01. Proc Ammo, Navy	497,689	215,769	713,458
02. Proc Ammo, MC	294,656	9,818	304,474
20. Undistributed			
Total Procurement of Ammo, Navy & MC	792,345	225,587	1,017,932

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Department of the Navy  
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 (Dollars in Thousands)

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Proc Ammo, Navy									
-----									
Navy Ammunition									
1	General Purpose Bombs	A		101,895		91,659		91,659	U
2	JDAM	B							U
3	Airborne Rockets, All Types	A		82,497		65,759		107,259	U
4	Machine Gun Ammunition	A		19,802		8,152		8,152	U
5	Practice Bombs	A		39,365		41,873		41,873	U
6	Cartridges & Cart Actuated Devices	A		47,089		54,002		54,002	U
7	Air Expendable Countermeasures	A		56,933		57,034		57,034	U
8	JATOS	A		2,806		2,735		2,735	U
9	LRLAP 155MM Long Range Land Attack Projectile	A		4,540					U
10	5 Inch/54 Gun Ammunition	A		41,194		19,220		19,220	U
11	Intermediate Caliber Gun Ammunition	A		33,715		30,196		30,196	U
12	Other Ship Gun Ammunition	A		50,157		39,009		39,009	U
13	Small Arms & Landing Party Ammo	A		55,336		46,727		46,727	U
14	Pyrotechnic and Demolition	A		12,798		9,806		9,806	U
15	Cancelled Account Adjustments (87)	A		2					U
16	Ammunition Less Than \$5 Million	A		9,143		2,900		2,900	U
Total Proc Ammo, Navy				557,272		469,072		510,572	

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Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO		FY 2017 Total PB Requests* with CR Adj OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Proc Ammo, Navy											
-----											
Navy Ammunition											
1	General Purpose Bombs	A		40,366		98,366				98,366	U
2	JDAM	B									U
3	Airborne Rockets, All Types	A		8,860		8,860				8,860	U
4	Machine Gun Ammunition	A									U
5	Practice Bombs	A									U
6	Cartridges & Cart Actuated Devices	A									U
7	Air Expendable Countermeasures	A		7,060		7,060				7,060	U
8	JATOS	A									U
9	LRLAP 155MM Long Range Land Attack Projectile	A									U
10	5 Inch/54 Gun Ammunition	A									U
11	Intermediate Caliber Gun Ammunition	A									U
12	Other Ship Gun Ammunition	A									U
13	Small Arms & Landing Party Ammo	A									U
14	Pyrotechnic and Demolition	A		1,122		1,122				1,122	U
15	Cancelled Account Adjustments (87)	A									U
16	Ammunition Less Than \$5 Million	A		3,495		3,495				3,495	U
Total Proc Ammo, Navy				60,903		118,903				118,903	

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Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA		FY 2017 Total PB Requests* with CR Adj Base + OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj Base + OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Proc Ammo, Navy											
-----											
Navy Ammunition											
1	General Purpose Bombs	A		132,025		190,025			190,025		U
2	JDAM	B									U
3	Airborne Rockets, All Types	A		74,619		116,119			116,119		U
4	Machine Gun Ammunition	A		8,152		8,152			8,152		U
5	Practice Bombs	A		41,873		41,873			41,873		U
6	Cartridges & Cart Actuated Devices	A		54,002		54,002			54,002		U
7	Air Expendable Countermeasures	A		64,094		64,094			64,094		U
8	JATOS	A		2,735		2,735			2,735		U
9	LRLAP 155MM Long Range Land Attack Projectile	A									U
10	5 Inch/54 Gun Ammunition	A		19,220		19,220			19,220		U
11	Intermediate Caliber Gun Ammunition	A		30,196		30,196			30,196		U
12	Other Ship Gun Ammunition	A		39,009		39,009			39,009		U
13	Small Arms & Landing Party Ammo	A		46,727		46,727			46,727		U
14	Pyrotechnic and Demolition	A		10,928		10,928			10,928		U
15	Cancelled Account Adjustments (87)	A									U
16	Ammunition Less Than \$5 Million	A		6,395		6,395			6,395		U
Total Proc Ammo, Navy				529,975		629,475			629,475		

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Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Proc Ammo, Navy									
-----									
Navy Ammunition									
1	General Purpose Bombs	A		34,882		74,021		108,903	U
2	JDAM	B	2492	57,343	4717	106,941	7209	164,284	U
3	Airborne Rockets, All Types	A		79,318		1,184		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		65,908		15,700		81,608	U
8	JATOS	A		2,895		540		3,435	U
9	LRLAP 155MM Long Range Land Attack Projectile	A							U
10	5 Inch/54 Gun Ammunition	A		22,112				22,112	U
11	Intermediate Caliber Gun Ammunition	A		12,804				12,804	U
12	Other Ship Gun Ammunition	A		41,594		13,789		55,383	U
13	Small Arms & Landing Party Ammo	A		49,401		1,963		51,364	U
14	Pyrotechnic and Demolition	A		9,495		765		10,260	U
15	Cancelled Account Adjustments (87)	A							U
16	Ammunition Less Than \$5 Million	A		3,080		866		3,946	U
Total Proc Ammo, Navy				497,689		215,769		713,458	

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Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Proc Ammo, MC									
-----									
Marine Corps Ammunition									
17	Small Arms Ammunition			24,575		27,958		31,558	U
18	40 Mm, All Types	A				14,758		14,758	U
19	60mm, All Types	A		1,849		992		992	U
20	Mortars	A							U
21	81mm, All Types	A		1,000				7,000	U
22	120mm, All Types	A		4,826		16,757		16,757	U
23	Direct Support Munitions	A							U
24	Infantry Weapons Ammunition	A							U
25	Grenades, All Types	A		1,390		972		1,972	U
26	Rockets, All Types	A		18,960		14,186		14,186	U
27	Artillery, All Types	A		101,908		68,656		68,656	U
28	Demolition Munitions, All Types	A		518		1,700		1,700	U
29	Combat Support Munitions	A							U
30	Fuze, All Types	A		31,268		26,088		26,088	U
31	Non Lethals	B		3,868					U
32	Ammo Modernization	A		13,322		14,660		14,660	U
33	Artillery Munitions	A							U

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Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO		FY 2017 Total PB Requests* with CR Adj OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Proc Ammo, MC											
-----											
Marine Corps Ammunition											
17	Small Arms Ammunition			1,205		1,205				1,205	U
18	40 Mm, All Types	A		539		539				539	U
19	60mm, All Types	A		909		909				909	U
20	Mortars	A									U
21	81mm, All Types	A									U
22	120mm, All Types	A		530		530				530	U
23	Direct Support Munitions	A									U
24	Infantry Weapons Ammunition	A									U
25	Grenades, All Types	A									U
26	Rockets, All Types	A		469		469				469	U
27	Artillery, All Types	A		1,196		1,196				1,196	U
28	Demolition Munitions, All Types	A		261		261				261	U
29	Combat Support Munitions	A									U
30	Fuze, All Types	A		217		217				217	U
31	Non Lethals	B									U
32	Ammo Modernization	A									U
33	Artillery Munitions	A									U

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Department of the Navy  
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Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA		FY 2017 Total PB Requests* with CR Adj Base + OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj Base + OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Proc Ammo, MC											
-----											
Marine Corps Ammunition											
17	Small Arms Ammunition			29,163		32,763				32,763	U
18	40 Mm, All Types	A		15,297		15,297				15,297	U
19	60mm, All Types	A		1,901		1,901				1,901	U
20	Mortars	A									U
21	81mm, All Types	A				7,000				7,000	U
22	120mm, All Types	A		17,287		17,287				17,287	U
23	Direct Support Munitions	A									U
24	Infantry Weapons Ammunition	A									U
25	Grenades, All Types	A		972		1,972				1,972	U
26	Rockets, All Types	A		14,655		14,655				14,655	U
27	Artillery, All Types	A		69,852		69,852				69,852	U
28	Demolition Munitions, All Types	A		1,961		1,961				1,961	U
29	Combat Support Munitions	A									U
30	Fuze, All Types	A		26,305		26,305				26,305	U
31	Non Lethals	B									U
32	Ammo Modernization	A		14,660		14,660				14,660	U
33	Artillery Munitions	A									U

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Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Proc Ammo, MC									
-----									
Marine Corps Ammunition									
17	Small Arms Ammunition								U
18	40 Mm, All Types	A							U
19	60mm, All Types	A							U
20	Mortars	A		24,118		1,290		25,408	U
21	81mm, All Types	A							U
22	120mm, All Types	A							U
23	Direct Support Munitions	A		64,045		1,355		65,400	U
24	Infantry Weapons Ammunition	A		91,456		1,854		93,310	U
25	Grenades, All Types	A							U
26	Rockets, All Types	A							U
27	Artillery, All Types	A							U
28	Demolition Munitions, All Types	A							U
29	Combat Support Munitions	A		11,788				11,788	U
30	Fuze, All Types	A							U
31	Non Lethals	B							U
32	Ammo Modernization	A		17,862				17,862	U
33	Artillery Munitions	A		79,427		5,319		84,746	U

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 (Dollars in Thousands)

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S e c
			Base + OCO		PB Request with CR Adj Base		Total PB Requests* with CR Adj Base		
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
34	Items Less Than \$5 Million	A		10,509		8,569		8,569	U
Total Proc Ammo, MC				213,993		195,296		206,896	
Budget Activity 20: Undistributed									
Undistributed									
35	Adj to Match Continuing Resolution	A				-13,687		-13,687	U
Total Undistributed						-13,687		-13,687	
Total Procurement of Ammo, Navy & MC				771,265		650,681		703,781	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
34	Items Less Than \$5 Million	A									U
	Total Proc Ammo, MC			5,326		5,326				5,326	
Budget Activity 20: Undistributed											
Undistributed											
35	Adj to Match Continuing Resolution	A		51,737		51,737				51,737	U
	Total Undistributed			51,737		51,737				51,737	
	Total Procurement of Ammo, Navy & MC			117,966		175,966				175,966	

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 (Dollars in Thousands)

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			PB Requests** with CR Adj Base+OCO+SAA		PB Requests* with CR Adj Base + OCO		Div B P.L.114-254** OCO		with CR Adj Base + OCO		
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
34	Items Less Than \$5 Million	A		8,569		8,569				8,569	U
Total Proc Ammo, MC				200,622		212,222				212,222	
Budget Activity 20: Undistributed											
Undistributed											
35	Adj to Match Continuing Resolution	A		38,050		38,050				38,050	U
Total Undistributed				38,050		38,050				38,050	
Total Procurement of Ammo, Navy & MC				768,647		879,747				879,747	

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Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
34	Items Less Than \$5 Million	A		5,960				5,960	U
Total Proc Ammo, MC				294,656		9,818		304,474	
Budget Activity 20: Undistributed									
Undistributed									
35	Adj to Match Continuing Resolution	A							U
Total Undistributed									
Total Procurement of Ammo, Navy & MC				792,345		225,587		1,017,932	

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**Master Line Item Table of Contents (by Appropriation then Line Number)**

***Appropriation 1508N: Procurement of Ammo, Navy & MC***

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
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9	01	01	0198	LRLAP 155MM Long Range Land Attack Projectile.....	Volume 1 - 59
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11	01	01	0266	Intermediate Caliber Gun Ammo.....	Volume 1 - 73
12	01	01	0270	Other Ship Gun Ammunition.....	Volume 1 - 75
13	01	01	0335	Small Arms & Lndg Party Ammo.....	Volume 1 - 93
14	01	01	0340	Pyrotechnic and Demolition.....	Volume 1 - 117
16	01	01	0400	Ammunition less than \$5 million.....	Volume 1 - 119

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***Appropriation 1508N: Procurement of Ammo, Navy & MC***

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<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
17	02	01	1000	Small Arms Ammunition.....	Volume 1 - 121
18	02	01	1050	40 MM, All Types.....	Volume 1 - 123
19	02	01	1083	60 MM, All Types.....	Volume 1 - 125
20	02	01	1085	Mortars.....	Volume 1 - 127
21	02	01	1091	81 MM, All Types.....	Volume 1 - 133
22	02	01	1121	120 MM, All Types.....	Volume 1 - 135
23	02	01	1125	Direct Support Munitions.....	Volume 1 - 137
24	02	01	1350	Infantry Weapons Ammunition.....	Volume 1 - 149
25	02	01	1468	Grenades, All Types.....	Volume 1 - 165
26	02	01	1471	Rockets, All Types.....	Volume 1 - 167
27	02	01	1473	Artillery, All Types.....	Volume 1 - 169
28	02	01	1500	Demolition Munitions, All Types.....	Volume 1 - 171
29	02	01	1550	Combat Support Munitions.....	Volume 1 - 173
30	02	01	1625	Fuze, All Types.....	Volume 1 - 175
31	02	01	1628	Non Lethals.....	Volume 1 - 177
32	02	01	1630	Ammo Modernization.....	Volume 1 - 179

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<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
33	02	01	1650	Artillery Munitions.....	Volume 1 - 181
34	02	01	1660	Items less than \$5 million.....	Volume 1 - 191

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40 MM, All Types	1050	18	02	01.....	Volume 1 - 123
5 Inch/54 Gun Ammunition	0250	10	01	01.....	Volume 1 - 61
60 MM, All Types	1083	19	02	01.....	Volume 1 - 125
81 MM, All Types	1091	21	02	01.....	Volume 1 - 133
Air Expendable Countermeasures	0182	7	01	01.....	Volume 1 - 51
Airborne Rockets, All Types	0151	3	01	01.....	Volume 1 - 23
Ammo Modernization	1630	32	02	01.....	Volume 1 - 179
Ammunition less than \$5 million	0400	16	01	01.....	Volume 1 - 119
Artillery Munitions	1650	33	02	01.....	Volume 1 - 181
Artillery, All Types	1473	27	02	01.....	Volume 1 - 169
Cartridge Actuated Devices/Propellant Act Devices	0180	6	01	01.....	Volume 1 - 45
Combat Support Munitions	1550	29	02	01.....	Volume 1 - 173
Demolition Munitions, All Types	1500	28	02	01.....	Volume 1 - 171
Direct Support Munitions	1125	23	02	01.....	Volume 1 - 137
Fuze, All Types	1625	30	02	01.....	Volume 1 - 175
General Purpose Bombs	0145	1	01	01.....	Volume 1 - 1

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Intermediate Caliber Gun Ammo	0266	11	01	01.....	Volume 1 - 73
Items less than \$5 million	1660	34	02	01.....	Volume 1 - 191
JT Direct Attack Munition (JDAM)	0148	2	01	01.....	Volume 1 - 15
Jet Assisted Take Off (JATOs)	0194	8	01	01.....	Volume 1 - 57
LRLAP 155MM Long Range Land Attack Projectile	0198	9	01	01.....	Volume 1 - 59
Machine Gun Ammunition	0155	4	01	01.....	Volume 1 - 31
Mortars	1085	20	02	01.....	Volume 1 - 127
Non Lethals	1628	31	02	01.....	Volume 1 - 177
Other Ship Gun Ammunition	0270	12	01	01.....	Volume 1 - 75
Practice Bombs	0160	5	01	01.....	Volume 1 - 33
Pyrotechnic and Demolition	0340	14	01	01.....	Volume 1 - 117
Rockets, All Types	1471	26	02	01.....	Volume 1 - 167
Small Arms & Lndg Party Ammo	0335	13	01	01.....	Volume 1 - 93
Small Arms Ammunition	1000	17	02	01.....	Volume 1 - 121

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2	01	01	0148	JT Direct Attack Munition (JDAM).....	Volume 1 - 15
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4	01	01	0155	Machine Gun Ammunition.....	Volume 1 - 31
5	01	01	0160	Practice Bombs.....	Volume 1 - 33
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7	01	01	0182	Air Expendable Countermeasures.....	Volume 1 - 51
8	01	01	0194	Jet Assisted Take Off (JATOs).....	Volume 1 - 57
9	01	01	0198	LRLAP 155MM Long Range Land Attack Projectile.....	Volume 1 - 59
10	01	01	0250	5 Inch/54 Gun Ammunition.....	Volume 1 - 61
11	01	01	0266	Intermediate Caliber Gun Ammo.....	Volume 1 - 73
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13	01	01	0335	Small Arms & Lndg Party Ammo.....	Volume 1 - 93
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19	02	01	1083	60 MM, All Types.....	Volume 1 - 125
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21	02	01	1091	81 MM, All Types.....	Volume 1 - 133
22	02	01	1121	120 MM, All Types.....	Volume 1 - 135
23	02	01	1125	Direct Support Munitions.....	Volume 1 - 137
24	02	01	1350	Infantry Weapons Ammunition.....	Volume 1 - 149
25	02	01	1468	Grenades, All Types.....	Volume 1 - 165
26	02	01	1471	Rockets, All Types.....	Volume 1 - 167
27	02	01	1473	Artillery, All Types.....	Volume 1 - 169
28	02	01	1500	Demolition Munitions, All Types.....	Volume 1 - 171
29	02	01	1550	Combat Support Munitions.....	Volume 1 - 173
30	02	01	1625	Fuze, All Types.....	Volume 1 - 175
31	02	01	1628	Non Lethals.....	Volume 1 - 177
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60 MM, All Types	1083	19	02	01.....	Volume 1 - 125
81 MM, All Types	1091	21	02	01.....	Volume 1 - 133
Air Expendable Countermeasures	0182	7	01	01.....	Volume 1 - 51
Airborne Rockets, All Types	0151	3	01	01.....	Volume 1 - 23
Ammo Modernization	1630	32	02	01.....	Volume 1 - 179
Ammunition less than \$5 million	0400	16	01	01.....	Volume 1 - 119
Artillery Munitions	1650	33	02	01.....	Volume 1 - 181
Artillery, All Types	1473	27	02	01.....	Volume 1 - 169
Cartridge Actuated Devices/Propellant Act Devices	0180	6	01	01.....	Volume 1 - 45
Combat Support Munitions	1550	29	02	01.....	Volume 1 - 173
Demolition Munitions, All Types	1500	28	02	01.....	Volume 1 - 171
Direct Support Munitions	1125	23	02	01.....	Volume 1 - 137
Fuze, All Types	1625	30	02	01.....	Volume 1 - 175
General Purpose Bombs	0145	1	01	01.....	Volume 1 - 1

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<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
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Items less than \$5 million	1660	34	02	01.....	Volume 1 - 191
JT Direct Attack Munition (JDAM)	0148	2	01	01.....	Volume 1 - 15
Jet Assisted Take Off (JATOs)	0194	8	01	01.....	Volume 1 - 57
LRLAP 155MM Long Range Land Attack Projectile	0198	9	01	01.....	Volume 1 - 59
Machine Gun Ammunition	0155	4	01	01.....	Volume 1 - 31
Mortars	1085	20	02	01.....	Volume 1 - 127
Non Lethals	1628	31	02	01.....	Volume 1 - 177
Other Ship Gun Ammunition	0270	12	01	01.....	Volume 1 - 75
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Rockets, All Types	1471	26	02	01.....	Volume 1 - 167
Small Arms & Lndg Party Ammo	0335	13	01	01.....	Volume 1 - 93
Small Arms Ammunition	1000	17	02	01.....	Volume 1 - 121

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2,150.532	101.895	190.025	34.882	74.021	108.903	50.852	65.969	51.921	58.457	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2,150.532	101.895	190.025	34.882	74.021	108.903	50.852	65.969	51.921	58.457	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>2,150.532</b>	<b>101.895</b>	<b>190.025</b>	<b>34.882</b>	<b>74.021</b>	<b>108.903</b>	<b>50.852</b>	<b>65.969</b>	<b>51.921</b>	<b>58.457</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 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 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 is required to modify, produce and certify the BLU-109 PLGS configuration. The certification will include verification and validation of the hardware to include: First Article Testing, Carrier Suitability, Captive Carriage and Flight Testing, Live Drops, Integrated Logistics Assessments, System Verification and Production Readiness Reviews.

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.

Beginning in FY2018 Joint Direct Attack Munition tail kit is procured separately in BLI 0148.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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			- / 2,150.532	- / 101.895	- / 190.025	- / 34.882	- / 74.021	- / 108.903
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 2,150.532</b>	<b>- / 101.895</b>	<b>- / 190.025</b>	<b>- / 34.882</b>	<b>- / 74.021</b>	<b>- / 108.903</b>

\*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 2018 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 2018 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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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>						<b>Date: May 2017</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1				<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs			<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				2,150.532	101.895	190.025	34.882	74.021	108.903
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				2,150.532	101.895	190.025	34.882	74.021	108.903
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>2,150.532</b>	<b>101.895</b>	<b>190.025</b>	<b>34.882</b>	<b>74.021</b>	<b>108.903</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Hardware - GP Bombs Cost</b>																		
Recurring Cost																		
1.1.1) Q2191 BLU-111 <sup>(1)</sup>	3,654.08	7,730	28.246	-	-	-	6,765.41	934	6.319	-	-	0.000	6,880.00	3,849	26.481	6,880.00	3,849	26.481
1.1.2) Q2192 BLU-110 <sup>(1)</sup>	11,488.55	131	1.505	-	-	-	-	-	-	-	-	0.000	12,960.86	605	7.841	12,960.86	605	7.841
1.1.3) Q2199 BLU-109 <sup>(1)</sup>	29,130.06	1,284	37.403	-	-	-	-	-	-	-	-	0.000	30,465.00	384	11.699	30,465.00	384	11.699
<i>Subtotal: Recurring Cost</i>	-	-	<i>67.154</i>	-	-	-	-	-	<i>6.319</i>	-	-	<i>0.000</i>	-	-	<i>46.021</i>	-	-	<i>46.021</i>
<i>Subtotal: Hardware - GP Bombs Cost</i>	-	-	<b>67.154</b>	-	-	-	-	-	<b>6.319</b>	-	-	<b>0.000</b>	-	-	<b>46.021</b>	-	-	<b>46.021</b>
<b>Hardware - Guided Bombs Cost Cost</b>																		
Recurring Cost																		
2.1.1) Q2186 Guided Bomb Tailkits <sup>(1) (1)</sup>	21,153.87	3,100	65.577	20,812.00	1,912	39.793	21,186.66	4,643	98.370	-	-	-	-	-	-	-	-	-
2.1.2) Q2200 Laser Capability DSU-38 <sup>(1) (2)</sup>	12,120.94	7,822	94.810	13,422.00	1,016	13.637	13,663.59	1,059	14.470	13,923.19	521	7.254	13,923.19	754	10.498	13,923.19	1,275	17.752
2.1.3) Q2220 Laser Capability DSU-42 <sup>(3)</sup>	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) Q2181 Laser Guided Bombs CCG (Raytheon) <sup>(1) (4)</sup>	10,000.00	1,296	12.960	-	-	-	14,274.00	400	5.710	8,674.00	420	3.643	8,674.00	117	1.015	8,674.00	537	4.658

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs						<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
2.1.5) Q2181 Laser Guided Bombs CCG (Lockheed) <sup>(†)</sup>	-	-	19.440	-	-	-	14,274.00	400	5.710	8,674.00	420	3.643	-	-	-	8,674.00	420	3.643
2.1.6) Q2187 Laser Guided Bombs AFG <sup>(†)</sup> <small>(5)</small>	-	-	-	-	-	-	4,417.00	2,552	11.272	-	-	0.000	4,699.00	117	0.550	4,699.00	117	0.550
2.1.7) Q2197 Bombs Subcomponents <sup>(6)</sup>	-	-	4.061	-	-	-	-	-	1.310	-	-	1.319	-	-	1.094	-	-	2.413
<b>Subtotal: Recurring Cost</b>	-	-	<b>196.849</b>	-	-	<b>53.430</b>	-	-	<b>136.842</b>	-	-	<b>15.859</b>	-	-	<b>13.157</b>	-	-	<b>29.016</b>
<b>Non Recurring Cost</b>																		
2.2.1) Q2895 DSU-42 Laser Capability Non Recurring <sup>(7)</sup>	-	-	-	-	-	20.980	-	-	20.596	-	-	-	-	-	-	-	-	-
<b>Subtotal: Non Recurring Cost</b>	-	-	-	-	-	<b>20.980</b>	-	-	<b>20.596</b>	-	-	-	-	-	-	-	-	-
<b>Subtotal: Hardware - Guided Bombs Cost Cost</b>	-	-	<b>196.849</b>	-	-	<b>74.410</b>	-	-	<b>157.438</b>	-	-	<b>15.859</b>	-	-	<b>13.157</b>	-	-	<b>29.016</b>
<b>Hardware - Fuzes Cost Cost</b>																		
<b>Recurring Cost</b>																		
3.1.1) Q2196 FMU-143	3,823.06	2,125	8.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(†)</sup>	1,199.64	47,456	56.930	2,193.19	987	2.165	2,237.05	6,000	13.422	2,281.79	6,359	14.510	2,281.79	4,838	11.039	2,281.79	11,197	25.549
3.1.3) Q2210 Hard Target Void Sensing Fuze <sup>(†)</sup>	22,320.00	50	1.116	19,493.33	450	8.772	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Recurring Cost</b>	-	-	<b>66.170</b>	-	-	<b>10.937</b>	-	-	<b>13.422</b>	-	-	<b>14.510</b>	-	-	<b>11.039</b>	-	-	<b>25.549</b>
<b>Non Recurring Cost</b>																		
3.2.1) Q2896 FUZE Non Recurring <sup>(8)</sup>	-	-	24.330	-	-	2.067	-	-	3.000	-	-	-	-	-	-	-	-	-
3.2.2) Q2861 Production Acceptance Test & Evaluation FUZE <sup>(9)</sup>	-	-	-	-	-	4.563	-	-	1.200	-	-	-	-	-	-	-	-	-
<b>Subtotal: Non Recurring Cost</b>	-	-	<b>24.330</b>	-	-	<b>6.630</b>	-	-	<b>4.200</b>	-	-	-	-	-	-	-	-	-
<b>Subtotal: Hardware - Fuzes Cost Cost</b>	-	-	<b>90.500</b>	-	-	<b>17.567</b>	-	-	<b>17.622</b>	-	-	<b>14.510</b>	-	-	<b>11.039</b>	-	-	<b>25.549</b>

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>														<b>Date:</b> May 2017				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs						<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 - Acceptance Testing - Guided Bombs Cost																		
Recurring Cost																		
4.1.1) Q2860 Production Acceptance Test & Evaluation Guided Bombs	-	-	23.534	-	-	0.222	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<b>23.534</b>	-	-	<b>0.222</b>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Acceptance Testing - Guided Bombs Cost</i>	-	-	<b>23.534</b>	-	-	<b>0.222</b>	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - Prior Years Cost																		
Non Recurring Cost																		
5.1.1) Prior Years Cumulative Funding	-	-	1,679.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<b>1,679.690</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Prior Years Cost</i>	-	-	<b>1,679.690</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Integrated Logistics Cost																		
6.1) Q2800 GP Bombs (10)	-	-	2.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) Q2800 Guided Bombs	-	-	2.517	-	-	0.309	-	-	0.313	-	-	0.069	-	-	-	-	-	0.069
6.3) Q2800 Fuzes	-	-	1.370	-	-	0.387	-	-	0.394	-	-	0.401	-	-	-	-	-	0.401
<i>Subtotal: Support - Integrated Logistics Cost</i>	-	-	<b>5.895</b>	-	-	<b>0.696</b>	-	-	<b>0.707</b>	-	-	<b>0.470</b>	-	-	-	-	-	<b>0.470</b>
Support - Production Engineering Cost																		
7.1) Q2830 GP Bombs (11)	-	-	20.608	-	-	-	-	-	1.524	-	-	0.000	-	-	2.355	-	-	2.355
7.2) Q2830 Guided Bombs (12)	-	-	27.182	-	-	3.959	-	-	3.385	-	-	0.815	-	-	0.603	-	-	1.418
7.3) Q2830 Fuzes (13)	-	-	16.421	-	-	4.162	-	-	2.136	-	-	2.214	-	-	0.846	-	-	3.060
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<b>64.211</b>	-	-	<b>8.121</b>	-	-	<b>7.045</b>	-	-	<b>3.029</b>	-	-	<b>3.804</b>	-	-	<b>6.833</b>
Support - Miscellaneous Support Cost																		
8.1) Q2850 Product Improvement Program (PIP) (14)	-	-	18.783	-	-	0.152	-	-	0.155	-	-	0.260	-	-	-	-	-	0.260

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
8.2) Q2892 Non-Standard Items	-	-	1.313	-	-	0.241	-	-	0.245	-	-	0.250	-	-	-	-	-	0.250
8.3) Q2893 Renovation Components	-	-	1.267	-	-	0.227	-	-	0.230	-	-	0.235	-	-	-	-	-	0.235
8.4) Q2894 Gaging	-	-	1.336	-	-	0.259	-	-	0.264	-	-	0.269	-	-	-	-	-	0.269
<i>Subtotal: Support - Miscellaneous Support Cost</i>	-	-	<b>22.699</b>	-	-	<b>0.879</b>	-	-	<b>0.894</b>	-	-	<b>1.014</b>	-	-	-	-	-	<b>1.014</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>2,150.532</b>	-	-	<b>101.895</b>	-	-	<b>190.025</b>	-	-	<b>34.882</b>	-	-	<b>74.021</b>	-	-	<b>108.903</b>

(†) indicates the presence of a P-5a

**Footnotes:**

- (1) Q2186 Guided Bomb Tailkits: Beginning in FY2018 JDAM Tail kits are procured separately under BLI 0148.
- (2) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) updated to Laser Capability DSU-38
- (3) Q2220 BLU-109 Laser Capability DSU-42 has been updated to Laser Capability DSU-42
- (4) Q2181 Laser Guided Bombs CCG quantity increases between FY2017 and FY2018 are a result of the Naval Munitions Requirements Process (NMRP) model, which addresses fleet inventory requirements. FY2018 unit cost is lower due to anticipated economies of scale.
- (5) Q2187 Laser Guided Bombs AFG will be procured with FY2017 Base and FY2018 OCO funding. The FY2017 unit cost is lower due to economy of scale achieved through multi-service procurements.
- (6) Q2197 Bomb sub-components 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).
- (7) Q2895 BLU-109 Laser Capability Non-recurring effort is required to modify, produce and certify the BLU-109 Precision Laser Guidance Set (PLGS) configuration. FY17 updated for actuals. The funding was re-aligned to Q2896 FUZE NRE to support the Government Test support NRE efforts.
- (8) Q2896 FUZE Non Recurring FY2016 was updated for actuals. The FY2017 increase was due to additional Systems Engineering Technical Review required for the implementation of FMU-139 D/B, and to support the qualification and aircraft integration support.
- (9) Q2861 Production Acceptance Test & Evaluation FUZE, FY17 increase was due to additional government qualification and aircraft integration support required to complete the Operational Test and Evaluation for the HTVSF program.
- (10) Q2800 GP Bombs Integrated Logistics baseline support is not required for FY2016, 2017, and 2018.
- (11) Q2830 GP Bombs Production Engineering funding realigned to procure additional Guided Bomb Tailkits and increase the Production Engineering in the Guided Bomb line based on increase support required for all Guided bomb procurements.
- (12) Q2830 Guided Bomb PES funding support increase from FY17 to FY18 is required for the increased Laser Guided Bomb CCG procurements.
- (13) Updated FY2016 for actuals, increase due to additional Systems Engineering Technical Review required for the implementation of FMU-139 D/B.
- (14) Q2850 Product Improvement Program (PIP) FY2018 - FY2020 increase due to Universal Armament Interface (UAI) updates incorporated in the fuze and guided bomb components.

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0145 / General Purpose Bombs					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 <sup>(t)</sup>		2017	General Dynamics BLU-111 / Garland, TX/MCAAP	C / FP	JMC Rock Island, IL	May 2017	May 2020	934	6,765.41	Y		Jun 2014
1.1.1) Q2191 BLU-111 <sup>(t)</sup>	✓	2018	General Dynamics BLU-111 / Garland, TX/MCAAP	C / FP	JMC Rock Island, IL	May 2018	May 2021	3,849	6,880.00	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
1.1.3) Q2199 BLU-109 <sup>(t)</sup>		2013	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	May 2014	Oct 2017	106	31,250.00	Y		Dec 2013
1.1.3) Q2199 BLU-109 <sup>(t)</sup>		2014	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	May 2014	Oct 2017	196	25,510.00	Y		Dec 2013
1.1.3) Q2199 BLU-109 <sup>(t)</sup>		2015	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	Feb 2016	Jul 2019	77	25,995.00	Y		Dec 2014
1.1.3) Q2199 BLU-109 <sup>(t)</sup>	✓	2018	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	Feb 2018	Feb 2021	384	30,465.00	Y		Dec 2014
2.1.1) Q2186 Guided Bomb Tailkits		2016	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / IDIQ	Hill AFB, UT	Feb 2016	Feb 2017	1,912	20,812.00	Y		Oct 2014
2.1.1) Q2186 Guided Bomb Tailkits		2017	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / IDIQ	Hill AFB, UT	Feb 2017	Feb 2018	4,643	21,186.66	Y		Oct 2014
2.1.2) Q2200 Laser Capability DSU-38 <sup>(t)</sup>		2015	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Dec 2015	Jan 2017	2,052	11,370.00	Y		Oct 2008
2.1.2) Q2200 Laser Capability DSU-38 <sup>(t)</sup>		2016	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2016	Mar 2017	1,016	13,422.00	Y		Mar 2015
2.1.2) Q2200 Laser Capability DSU-38 <sup>(t)</sup>		2017	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2017	Mar 2018	1,059	13,663.59	Y		Mar 2015
2.1.2) Q2200 Laser Capability DSU-38 <sup>(t)</sup>		2018	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2018	Mar 2019	521	13,923.19	Y		Mar 2015
2.1.2) Q2200 Laser Capability DSU-38 <sup>(t)</sup>	✓	2018	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2018	Mar 2019	754	13,923.19	Y		Mar 2015
2.1.4) 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
2.1.4) Q2181 Laser Guided Bombs CCG (Raytheon)		2018	Raytheon Missile Systems LGB (Raytheon) / Tucson, AZ	C / IDIQ	Hill AFB, UT	Jul 2018	Mar 2020	420	8,674.00	Y		Jan 2014
2.1.4) 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 (Lockheed)		2017	Lockheed Martin Corporation LGB / Archbald, PA	C / IDIQ	Hill AFB, UT	Jul 2017	Mar 2019	400	14,274.00	Y		Jan 2014
2.1.5) Q2181 Laser Guided Bombs CCG (Lockheed)		2018	Lockheed Martin Corporation LGB / Archbald, PA	C / IDIQ	Hill AFB, UT	Jul 2018	Mar 2020	420	8,674.00	Y		Jan 2014

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.6) 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
2.1.6) 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
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(t)</sup>	✓	2013	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Sep 2014	Mar 2017	4,970	2,400.00	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(t)</sup>		2014	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2015	Mar 2017	2,178	2,027.21	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(t)</sup>	✓	2014 <sup>(15)</sup>	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Sep 2014	Mar 2017	527	2,400.00	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(t)</sup>	✓	2015	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2015	Mar 2017	3,746	2,027.21	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(t)</sup>		2016	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2017	Mar 2019	987	2,193.19	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(t)</sup>		2017	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2017	Mar 2019	6,000	2,237.05	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(t)</sup>		2018	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2018	Mar 2020	6,359	2,281.79	Y		Mar 2015
3.1.2) Q2032 FMU-139 Electrical Fuze <sup>(t)</sup>	✓	2018	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2018	Mar 2020	4,838	2,281.79	Y		Mar 2015
3.1.3) Q2210 Hard Target Void Sensing Fuze		2016 <sup>(16)</sup>	ATK Tactical Systems (HTVSF) / Keyser, WV	C / FFP	Eglin AFB, FL	Jun 2017	Jun 2018	450	19,493.33	Y		Nov 2012

<sup>(t)</sup> indicates the presence of a P-21

**Footnotes:**

<sup>(15)</sup> Q2032 FMU-139 Electrical Fuze has failed Lot Acceptance Testing. This will delay first delivery by 6 months.

<sup>(16)</sup> FY2016 contract award updated from July 2016 to June 2017 due to delay in the Air Force lead Multiservice Operational Test and Evaluation (MOT&E). The USN will procure total inventory requirement of 450 in a single contract effort.

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2014													Fiscal Year 2015													BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) Q2191 BLU-111																																	
Prior Years Deliveries: 7730																																	
	1	2017	NAVY	934	0	934																							934				
✓	1	2018	NAVY	3,849	0	3,849																							3,849				
1.1.3) Q2199 BLU-109																																	
Prior Years Deliveries: 905																																	
	2	2013	NAVY	106 <sup>(17)</sup>	0	106																							106				
	2	2014	NAVY	196	0	196																							196				
	2	2015	NAVY	77	0	77																							77				
✓	2	2018	NAVY	384	0	384																							384				
2.1.2) Q2200 Laser Capability DSU-38 <sup>(2)</sup>																																	
Prior Years Deliveries: 5770																																	
	3	2015	NAVY	2,052	0	2,052																							2,052				
	3	2016	NAVY	1,016	0	1,016																							1,016				
	3	2017	NAVY	1,059	0	1,059																							1,059				
	3	2018	NAVY	521	0	521																							521				
✓	3	2018	NAVY	754	0	754																							754				
3.1.2) Q2032 FMU-139 Electrical Fuze																																	
Prior Years Deliveries: 36035																																	
✓	4	2013	NAVY	4,970 <sup>(18)</sup>	0	4,970																							4,970				
	4	2014	NAVY	2,178	0	2,178																							2,178				
✓	4	2014	NAVY	527	0	527																							527				
✓	4	2015	NAVY	3,746	0	3,746																							3,746				
	4	2016	NAVY	987	0	987																							987				
	4	2017	NAVY	6,000	0	6,000																							6,000				
	4	2018	NAVY	6,359	0	6,359																							6,359				
✓	4	2018	NAVY	4,838	0	4,838																							4,838				
							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: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016													Fiscal Year 2017													BALANCE		
O 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			
1.1.1) Q2191 BLU-111																																	
Prior Years Deliveries: 7730																																	
	1	2017	NAVY	934	0	934																							934				
✓	1	2018	NAVY	3,849	0	3,849																							3,849				
1.1.3) Q2199 BLU-109																																	
Prior Years Deliveries: 905																																	
	2	2013	NAVY	106 <sup>(17)</sup>	0	106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106				
	2	2014	NAVY	196	0	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	196				
	2	2015	NAVY	77	0	77																							77				
✓	2	2018	NAVY	384	0	384																							384				
2.1.2) Q2200 Laser Capability DSU-38 <sup>(2)</sup>																																	
Prior Years Deliveries: 5770																																	
	3	2015	NAVY	2,052	0	2,052																							513				
	3	2016	NAVY	1,016	0	1,016																							400				
	3	2017	NAVY	1,059	0	1,059																							1,059				
	3	2018	NAVY	521	0	521																							521				
✓	3	2018	NAVY	754	0	754																							754				
3.1.2) Q2032 FMU-139 Electrical Fuze																																	
Prior Years Deliveries: 36035																																	
✓	4	2013	NAVY	4,970 <sup>(18)</sup>	0	4,970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	4	2014	NAVY	2,178	0	2,178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000				
✓	4	2014	NAVY	527	0	527	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
✓	4	2015	NAVY	3,746	0	3,746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600				
	4	2016	NAVY	987	0	987																							987				
	4	2017	NAVY	6,000	0	6,000																							6,000				
	4	2018	NAVY	6,359	0	6,359																							6,359				
✓	4	2018	NAVY	4,838	0	4,838																							4,838				
							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: FY 2018 Navy** **Date:** May 2017

**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 2018													Fiscal Year 2019													BALANCE		
O 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) Q2191 BLU-111																																	
Prior Years Deliveries: 7730																																	
	1	2017	NAVY	934	0	934	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	934					
✓	1	2018	NAVY	3,849	0	3,849								A	-	-	-	-	-	-	-	-	-	-	-	-	-	3,849					
1.1.3) Q2199 BLU-109																																	
Prior Years Deliveries: 905																																	
	2	2013	NAVY	106 <sup>(17)</sup>	0	106	106																					0					
	2	2014	NAVY	196	0	196	196																					0					
	2	2015	NAVY	77	0	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	0						
✓	2	2018	NAVY	384	0	384								A	-	-	-	-	-	-	-	-	-	-	-	-	-	384					
2.1.2) Q2200 Laser Capability DSU-38 <sup>(2)</sup>																																	
Prior Years Deliveries: 5770																																	
	3	2015	NAVY	2,052	1,539	513	171	171	171																			0					
	3	2016	NAVY	1,016	616	400	80	80	80	80	80																	0					
	3	2017	NAVY	1,059	0	1,059	-	-	-	-	-	93	120	120	120	120	120	61	61	61	61	61	61					0					
	3	2018	NAVY	521	0	521																						215					
✓	3	2018	NAVY	754	0	754																						320					
3.1.2) Q2032 FMU-139 Electrical Fuze																																	
Prior Years Deliveries: 36035																																	
✓	4	2013	NAVY	4,970 <sup>(18)</sup>	4,970	0																						0					
	4	2014	NAVY	2,178	1,178	1,000	200	200	200	200	200																	0					
✓	4	2014	NAVY	527	527	0																						0					
✓	4	2015	NAVY	3,746	2,146	1,600	400	400	400	400																		0					
	4	2016	NAVY	987	0	987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	413					
	4	2017	NAVY	6,000	0	6,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,500					
	4	2018	NAVY	6,359	0	6,359																						6,359					
✓	4	2018	NAVY	4,838	0	4,838																						4,838					
							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: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021												BALANCE		
O 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) Q2191 BLU-111																																
Prior Years Deliveries: 7730																																
	1	2017	NAVY	934	0	934	-	-	-	-	-	-	-	77	79	79	79	79	78	77	77	77	77	77	78				0			
✓	1	2018	NAVY	3,849	0	3,849	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	329	320	320	320	320	2,240	
1.1.3) Q2199 BLU-109																																
Prior Years Deliveries: 905																																
	2	2013	NAVY	106 <sup>(17)</sup>	106	0																							0			
	2	2014	NAVY	196	196	0																							0			
	2	2015	NAVY	77	77	0																							0			
✓	2	2018	NAVY	384	0	384	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	80	80	80	64	0			
2.1.2) Q2200 Laser Capability DSU-38 <sup>(2)</sup>																																
Prior Years Deliveries: 5770																																
	3	2015	NAVY	2,052	2,052	0																							0			
	3	2016	NAVY	1,016	1,016	0																							0			
	3	2017	NAVY	1,059	1,059	0																							0			
	3	2018	NAVY	521	306	215	43	43	43	43	43																		0			
✓	3	2018	NAVY	754	434	320	62	62	62	62	72																		0			
3.1.2) Q2032 FMU-139 Electrical Fuze																																
Prior Years Deliveries: 36035																																
✓	4	2013	NAVY	4,970 <sup>(18)</sup>	4,970	0																							0			
	4	2014	NAVY	2,178	2,178	0																							0			
✓	4	2014	NAVY	527	527	0																							0			
✓	4	2015	NAVY	3,746	3,746	0																							0			
	4	2016	NAVY	987	574	413	82	82	82	82	85																		0			
	4	2017	NAVY	6,000	3,500	2,500	500	500	500	500	500																		0			
	4	2018	NAVY	6,359	0	6,359	-	-	-	-	-	529	529	529	529	529	529	529	526	529	529	529	529	543					0			
✓	4	2018	NAVY	4,838	0	4,838	-	-	-	-	-	405	403	403	403	403	403	403	403	403	403	403	403	403					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: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							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	934	934	0																						0			
✓	1	2018	NAVY	3,849	1,609	2,240	320	320	320	320	320	320	320															0			
1.1.3) Q2199 BLU-109																															
Prior Years Deliveries: 905																															
	2	2013	NAVY	106 <sup>(17)</sup>	106	0																						0			
	2	2014	NAVY	196	196	0																						0			
	2	2015	NAVY	77	77	0																						0			
✓	2	2018	NAVY	384	384	0																						0			
2.1.2) Q2200 Laser Capability DSU-38 <sup>(2)</sup>																															
Prior Years Deliveries: 5770																															
	3	2015	NAVY	2,052	2,052	0																						0			
	3	2016	NAVY	1,016	1,016	0																						0			
	3	2017	NAVY	1,059	1,059	0																						0			
	3	2018	NAVY	521	521	0																						0			
✓	3	2018	NAVY	754	754	0																						0			
3.1.2) Q2032 FMU-139 Electrical Fuze																															
Prior Years Deliveries: 36035																															
✓	4	2013	NAVY	4,970 <sup>(18)</sup>	4,970	0																						0			
	4	2014	NAVY	2,178	2,178	0																						0			
✓	4	2014	NAVY	527	527	0																						0			
✓	4	2015	NAVY	3,746	3,746	0																						0			
	4	2016	NAVY	987	987	0																						0			
	4	2017	NAVY	6,000	6,000	0																						0			
	4	2018	NAVY	6,359	6,359	0																						0			
✓	4	2018	NAVY	4,838	4,838	0																						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: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0145 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> 1 / GP Bomb
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	National Forge BLU-109 - Irving, PA/MCAPP	1,344	2,232	6,480	0	12	24	36	0	5	36	41
3	The Boeing Company - St. Charles, MO	1,200	4,800	5,760	0	14	12	26	0	6	12	18
4	L-3 FUZING & ORDNANCE SYSTEMS INC - CINCINATTI, OH	6,000	10,000	20,000	0	0	0	0	0	5	24	29

"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:**

<sup>(17)</sup> Fluctuations and gaps in delivery schedules for the BLU-109 are due to Multi-Service deliveries.

<sup>(18)</sup> Fluctuations and gaps in delivery schedules for the FMU-139 FUZES are due to Multi-Service deliveries.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0148 / JT Direct Attack Munition (JDAM)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** 503

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	2,492	4,717	7,209	2,286	2,244	2,242	2,250	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	57.343	106.941	164.284	53.922	54.055	54.999	56.520	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	57.343	106.941	164.284	53.922	54.055	54.999	56.520	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>57.343</b>	<b>106.941</b>	<b>164.284</b>	<b>53.922</b>	<b>54.055</b>	<b>54.999</b>	<b>56.520</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

This program is not a new start. This line breaks out Joint Direct Attack Munition (JDAM) tail kits separately from 0145 General Purpose Bombs. JDAM tail kits have not been procured as a separate line item since 2009. In FY2018 Navy expects to procure 7,209 JDAM tail kits.

The Joint Direct Attack Munition (JDAM) program is a joint Air Force/Navy program with the Air Force as the lead service. As a guidance system, JDAM upgrades the existing inventory of general purpose bombs (MK 84, BLU-109/B, MK83, BLU-109, BLU-126, and MK82) by integrating them with a guidance kit consisting of a global positioning system aided inertial navigation system (GPS/INS). JDAM provides an accurate (13 meters) adverse weather capability that is integrated on the B-52, B-2, B-1B, F-16, F/A-18C/D/E/F, F-15E, F-22, A-10, and AV-8B.

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).

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

**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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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	- / 0.000	2,492 / 57.343	4,717 / 106.941	7,209 / 164.284
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>2,492 / 57.343</b>	<b>4,717 / 106.941</b>	<b>7,209 / 164.284</b>

\*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:**  
FY2018 baseline funding is required to meet Naval Munitions Requirements Process (NMRP) inventory requires. Baseline funds procure a total of 2,492 JDAM tail kits.

OCO:  
FY 2018 Overseas Contingency Operations (OCO) funding is required to replenish JDAM that were expended in direct support of combat operations in theater. These operations were in support of Operation Inherent Resolve. The OCO funds procures 4,717 JDAM tail kits.

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0148 / JT Direct Attack Munition (JDAM)	<b>Item Number / Title [DODIC]:</b> 1 / JT Direct Attack Munition (JDAM) Tail Kit

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	2,492	4,717	7,209
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	57.343	106.941	164.284
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	57.343	106.941	164.284
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>57.343</b>	<b>106.941</b>	<b>164.284</b>

*(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> )	-	-	-	23,010.83	22,671.40	22,788.74

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
1.1.1) JDAM Tail Kit <sup>(†)</sup> (1)	-	-	-	-	-	-	-	-	-	21,589.09	2,492	53.800	21,589.20	4,717	101.836	21,589.12	7,209	155.636
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	53.800	-	-	101.836	-	-	155.636
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	53.800	-	-	101.836	-	-	155.636
<b>Support Cost</b>																		
2.1) Support - Integrated Logistics	-	-	-	-	-	-	-	-	-	-	-	0.250	-	-	-	-	-	0.250
2.2) Support - Production Engineering	-	-	-	-	-	-	-	-	-	-	-	3.158	-	-	5.105	-	-	8.263
2.3) Support - Miscellaneous Support	-	-	-	-	-	-	-	-	-	-	-	0.135	-	-	-	-	-	0.135
<i>Subtotal: Support Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.543	-	-	5.105	-	-	8.648
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	0.000	23,010.83	2,492	57.343	22,671.40	4,717	106.941	22,788.74	7,209	164.284

(†) indicates the presence of a P-5a

**Footnotes:**

(1) Q2186 JDAM Tail Kit procurement in FY2018 (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.

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<b>Exhibit P-5a, Procurement History and Planning: FY 2018 Navy</b>								<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1			<b>P-1 Line Item Number / Title:</b> 0148 / JT Direct Attack Munition (JDAM)					<b>Item Number / Title [DODIC]:</b> 1 / JT Direct Attack Munition (JDAM) Tail Kit				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
1.1.1) JDAM Tail Kit <sup>(†)</sup>		2018	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / IDIQ	Hill AFB, UT	Feb 2018	Feb 2019	2,492	21,589.09	Y		Oct 2014
1.1.1) JDAM Tail Kit <sup>(†)</sup>	✓	2018	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / IDIQ	Hill AFB, UT	Feb 2018	Feb 2019	4,717	21,589.20	Y		Oct 2014

<sup>(†)</sup> indicates the presence of a P-21



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<b>Exhibit P-21, Production Schedule: FY 2018 Navy</b>															<b>Date: May 2017</b>														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1										<b>P-1 Line Item Number / Title:</b> 0148 / JT Direct Attack Munition (JDAM)										<b>Item Number / Title [DODIC]:</b> 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

1.1.1) JDAM Tail Kit <sup>(1)</sup>

1	2018	NAVY	2,492	1,748	744	186	186	186	186																	0	
✓	1	2018	NAVY	4,717	3,144	1,573	393	393	393	394																	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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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1		<b>P-1 Line Item Number / Title:</b> 0148 / JT Direct Attack Munition (JDAM)
		<b>Item Number / Title [DODIC]:</b> 1 / JT Direct Attack Munition (JDAM) Tail Kit

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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 Guided Bombs (Tailkits) - St. Charles, MO	4,000	10,000	36,000	0	12	12	24	0	5	12	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:** FY 2018 Navy **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	863.931	82.497	116.119	79.318	1.184	80.502	81.798	87.375	90.722	93.355	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	863.931	82.497	116.119	79.318	1.184	80.502	81.798	87.375	90.722	93.355	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>863.931</b>	<b>82.497</b>	<b>116.119</b>	<b>79.318</b>	<b>1.184</b>	<b>80.502</b>	<b>81.798</b>	<b>87.375</b>	<b>90.722</b>	<b>93.355</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

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 weaponing 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.

Miscellaneous Items provides for procurement of various rocket components not to exceed a total cost of 500K per year per component.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		<b>P-1 Line Item Number / Title:</b> 0151 / Airborne Rockets, All Types
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0204162N, 0206138M
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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.</p>		

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

**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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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				- / 863.931	- / 82.497	- / 116.119	- / 79.318	- / 1.184	- / 80.502
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 863.931</b>	<b>- / 82.497</b>	<b>- / 116.119</b>	<b>- / 79.318</b>	<b>- / 1.184</b>	<b>- / 80.502</b>

\*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 2018 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 and AV-8B 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.

MK-66 rocket motor inventory requirements are increasing due to current combat operations and pre deployment training primarily driven by increased platform usage. FY 2018 procurement quantities increase from FY 2017 to ensure inventory is maintained.

LAU-61 G/A and LAU-68 F/A launcher inventory requirements are increasing for both combat operations and pre deployment training primarily driven by increased platform usage. FY 2018 procurement quantities increase to ensure inventory is maintained.

In addition, FY 2018 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.

OCO:  
 FY 2018 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 Freedom's Sentinel.

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.

APKWS OCO funding is required to replenish inventory that has been expended in combat operations and will challenge the Navy and Marine Corp's ability to effectively counter the FAC/FIAC threat.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		<b>P-1 Line Item Number / Title:</b> 0151 / Airborne Rockets, All Types
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0204162N, 0206138M
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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 FAC/FIAC threat.</p>		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy																Date: May 2017				
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>1) Rockets Hardware</b>																				
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) (1)	A		988.14	329,836	325.925	457.76	26,479	12.121	495.23	41,411	20.508	505.14	45,718	23.094	505.14	380	0.192	505.14	46,098	23.286
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	A		685.34	5,800	3.975	-	-	-	167.51	2,000	0.335	170.86	2,000	0.342	-	-	-	170.86	2,000	0.342
<b>Subtotal: 1) Rockets Hardware</b>			-	-	<b>386.781</b>	-	-	<b>12.121</b>	-	-	<b>20.843</b>	-	-	<b>23.436</b>	-	-	<b>0.192</b>	-	-	<b>23.628</b>
<b>2) Rocket Warheads</b>																				
2.1) (Q5030) WTU1/B INERT WARHEAD (2)	A		153.03	127,572	19.522	95.18	7,649	0.728	97.08	7,643	0.742	99.02	7,624	0.755	-	-	-	99.02	7,624	0.755
2.2) (Q5080) MK 146 HE WARHEAD	A		18,431.82	1,100	20.275	-	-	-	1,669.57	541	0.903	1,702.96	541	0.921	-	-	-	1,702.96	541	0.921
2.3) (Q5090) MK 149 WARHEAD (3)	A		22,968.57	509	11.691	-	-	-	599.79	1,490	0.894	611.79	1,191	0.729	-	-	-	611.79	1,191	0.729
2.4) (Q5897) WTU-11/ B WARHEAD	A		-	-	1.025	-	-	-	434.11	500	0.217	442.79	500	0.221	-	-	-	442.79	500	0.221
2.5) (Q5898) M282 MULTI-PURPOSE PENETRATOR (MPP) (4)	A		3,349.61	5,426	18.175	-	-	1.362	3,518.70	40	0.141	3,589.07	39	0.140	-	-	-	3,589.07	39	0.140
2.6) (Q5899) MK 152 WARHEAD	A		1,398.12	53,949	75.427	-	-	-	1,630.50	100	0.163	1,663.00	100	0.166	1,663.00	37	0.062	1,663.00	137	0.228
<b>Subtotal: 2) Rocket Warheads</b>			-	-	<b>146.115</b>	-	-	<b>2.090</b>	-	-	<b>3.060</b>	-	-	<b>2.932</b>	-	-	<b>0.062</b>	-	-	<b>2.994</b>
<b>3) Rocket Launchers</b>																				
3.1) (Q5895) LAU-68 F/A (2.75") (5)	A		19,374.57	1,455	28.190	17,895.83	48	0.859	18,264.71	102	1.863	18,620.97	184	3.426	-	-	-	18,620.97	184	3.426
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER (6)	A		57,129.63	162	9.255	58,470.48	29	1.696	60,827.16	81	4.927	62,049.34	110	6.825	-	-	-	62,049.34	110	6.825
<b>Subtotal: 3) Rocket Launchers</b>			-	-	<b>37.445</b>	-	-	<b>2.555</b>	-	-	<b>6.790</b>	-	-	<b>10.251</b>	-	-	-	-	-	<b>10.251</b>
<b>4) APKWS</b>																				
4.1) (Q5896) APKWS G&C SECTIONS (7)	A		28,043.31	6,304	176.785	28,704.21	1,929	55.370	29,278.30	2,165	63.388	29,863.86	1,179	35.209	29,863.44	31	0.926	29,863.64	1,210	36.135
<b>Subtotal: 4) APKWS</b>			-	-	<b>176.785</b>	-	-	<b>55.370</b>	-	-	<b>63.388</b>	-	-	<b>35.209</b>	-	-	<b>0.926</b>	-	-	<b>36.135</b>
<b>5) Other</b>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy** **Date:** May 2017

**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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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) (Q5871) MISCELLANEOUS ITEMS	A		-	-	7.646	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
5.2) (Q5870) CONTAINERS	A		-	-	24.960	-	-	0.992	-	-	1.176	-	-	1.247	-	-	-	-	-	1.247
<b>Subtotal: 5) Other</b>			-	-	<b>32.606</b>	-	-	<b>1.092</b>	-	-	<b>1.276</b>	-	-	<b>1.347</b>	-	-	-	-	-	<b>1.347</b>
<b>6) (Q5800) Integrated Logistics Support (ILS)</b>																				
6.1) ROCKET WARHEADS-ILS	A		-	-	3.365	-	-	0.172	-	-	0.175	-	-	0.182	-	-	-	-	-	0.182
6.2) ROCKET LAUNCHERS-ILS	A		-	-	0.622	-	-	0.101	-	-	0.103	-	-	0.107	-	-	-	-	-	0.107
6.3) APKWS-ILS	A		-	-	0.296	-	-	0.049	-	-	0.350	-	-	0.052	-	-	-	-	-	0.052
6.4) OTHER-ILS	A		-	-	0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: 6) (Q5800) Integrated Logistics Support (ILS)</b>			-	-	<b>4.319</b>	-	-	<b>0.322</b>	-	-	<b>0.628</b>	-	-	<b>0.341</b>	-	-	-	-	-	<b>0.341</b>
<b>7) (Q5850) Product Improvement (PIP)</b>																				
7.1) ROCKET MOTORS - PIP	A		-	-	-	-	-	0.049	-	-	0.002	-	-	0.052	-	-	-	-	-	0.052
7.2) ROCKET WARHEADS-PIP	A		-	-	13.916	-	-	0.200	-	-	0.203	-	-	0.221	-	-	-	-	-	0.221
7.3) ROCKET LAUNCHERS-PIP	A		-	-	0.020	-	-	0.500	-	-	0.002	-	-	0.553	-	-	-	-	-	0.553
7.4) APKWS-PIP <sup>(8)</sup>	A		-	-	5.657	-	-	3.813	-	-	14.871	-	-	2.291	-	-	-	-	-	2.291
<b>Subtotal: 7) (Q5850) Product Improvement (PIP)</b>			-	-	<b>19.593</b>	-	-	<b>4.562</b>	-	-	<b>15.078</b>	-	-	<b>3.117</b>	-	-	-	-	-	<b>3.117</b>
<b>8) (Q5830) Production Engineering Support (PES)</b>																				
8.1) ROCKET MOTORS-PES	A		-	-	12.945	-	-	0.646	-	-	0.659	-	-	0.714	-	-	-	-	-	0.714
8.2) ROCKET WARHEADS-PES	A		-	-	26.600	-	-	2.916	-	-	0.686	-	-	0.723	-	-	-	-	-	0.723
8.3) ROCKET LAUNCHERS-PES	A		-	-	6.358	-	-	0.179	-	-	0.182	-	-	0.197	-	-	-	-	-	0.197
8.4) APKWS-PES <sup>(9)</sup>	A		-	-	14.384	-	-	0.644	-	-	3.529	-	-	1.051	-	-	0.004	-	-	1.055
<b>Subtotal: 8) (Q5830) Production Engineering Support (PES)</b>			-	-	<b>60.287</b>	-	-	<b>4.385</b>	-	-	<b>5.056</b>	-	-	<b>2.685</b>	-	-	<b>0.004</b>	-	-	<b>2.689</b>
<b>Total</b>			-	-	<b>863.931</b>	-	-	<b>82.497</b>	-	-	<b>116.119</b>	-	-	<b>79.318</b>	-	-	<b>1.184</b>	-	-	<b>80.502</b>

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

**Footnotes:**

<sup>(1)</sup> (Q5040) MK 66 ROCKET MOTOR (MOD 4): Pricing is provided by the Army and incorporates other customer buys. The unit price fluctuates depending on the total procurement.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy</b>	<b>Date: May 2017</b>
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0151 / Airborne Rockets, All Types	<b>Aggregated Items Title:</b> Airborne Rockets, All Types
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- <sup>(2)</sup> (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.
- <sup>(3)</sup> (Q5090) MK 149 WARHEAD: Pricing provided by the Army and incorporates other services' buys.
- <sup>(4)</sup> (Q5898) M282 MULTI-PURPOSE PENETRATOR: Pricing provided by the Army and incorporates other services' buys.
- <sup>(5)</sup> (Q5895) LAU-68 F/A (2.75 inch): Unit cost may vary due to procurement of several components (such as launcher skin material, thermal coat material, safety switches, intervalometers and/or detent mechanisms).
- <sup>(6)</sup> (Q5900) LAU-61 G/A (2.75"): Unit cost may vary due to procurement of several components (such as launcher skin material, thermal coat material, safety switches, launcher electronics components and/or detent mechanisms).
- <sup>(7)</sup> (Q5896) APKWS G&C SECTIONS: Pricing is provided by the Navy and depends on other customer buys. The unit price fluctuates depending on the total procurement. (Q5896) APKWS G&C SECTIONS: FY17 In the FY17 Amended Budget Submission FY17 funding was added to support the procurement of Advanced Precision Kill Weapons System (APKWS). Additional funding and quantity was added for Blue in Support of Green (BISOG) APKWS II F/A-18A-D Capability and to address a Joint Urgent Operational Need (JUON) requirement for APKWS in support of direct warfighter readiness requirements.
- <sup>(8)</sup> (Q5850) APKWS-PIP: FY17 was increased above inflation to execute verification flights to collect, analyze and review data in support of APKWS F/A-18A-D Flight Clearance Issuance.
- <sup>(9)</sup> (Q5830) APKWS-PES: FY17 was increased above inflation to verify APKWS Capability on F/A-18A-D.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0155 / Machine Gun Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	628.947	19.802	8.152	14.112	0.000	14.112	11.528	13.961	11.928	12.168	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	628.947	19.802	8.152	14.112	0.000	14.112	11.528	13.961	11.928	12.168	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>628.947</b>	<b>19.802</b>	<b>8.152</b>	<b>14.112</b>	<b>0.000</b>	<b>14.112</b>	<b>11.528</b>	<b>13.961</b>	<b>11.928</b>	<b>12.168</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

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.

**Justification:**

FY2018 baseline funding is required to support 20MM TP requirements. Provides procurement of 20MM ammunition that supports various aircraft gun systems for several Type/Model/Series (T/M/S) aircraft.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0160 / Practice Bombs
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	819.701	39.365	41.873	47.027	0.000	47.027	49.973	52.212	54.048	55.394	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	819.701	39.365	41.873	47.027	0.000	47.027	49.973	52.212	54.048	55.394	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>819.701</b>	<b>39.365</b>	<b>41.873</b>	<b>47.027</b>	<b>0.000</b>	<b>47.027</b>	<b>49.973</b>	<b>52.212</b>	<b>54.048</b>	<b>55.394</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 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 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 a NAVAIR contract.

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 BLU-109 Inert is a full-scale 2,000lb inert Practice Bomb. Bomb body is filled with an inert material and has the same weight, size, center of gravity and ballistics of the live bomb.

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, Arming Wires, 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:** FY 2018 Navy **Date:** May 2017

**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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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			- / 819.701	- / 39.365	- / 41.873	- / 47.027	- / 0.000	- / 47.027
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 819.701</b>	<b>- / 39.365</b>	<b>- / 41.873</b>	<b>- / 47.027</b>	<b>- / 0.000</b>	<b>- / 47.027</b>

\*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:**

FY2018 funds the program's base requirements. The increase in FY2018 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.

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.

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.

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>													<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0160 / Practice Bombs						<b>Item Number / Title [DODIC]:</b> 1 / Practice Bombs						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>FY 2018 Base</b>		<b>FY 2018 OCO</b>		<b>FY 2018 Total</b>				
Procurement Quantity ( <i>Units in Each</i> )				-		-		-		-		-		-				
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				819.701		39.365		41.873		47.027		0.000		47.027				
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-		-		-		-		-		-				
Net Procurement (P-1) ( <i>\$ in Millions</i> )				819.701		39.365		41.873		47.027		0.000		47.027				
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-		-		-		-		-		-				
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				<b>819.701</b>		<b>39.365</b>		<b>41.873</b>		<b>47.027</b>		<b>0.000</b>		<b>47.027</b>				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares ( <i>\$ in Millions</i> )				-		-		-		-		-		-				
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - Practice Bombs Cost																		
Recurring Cost																		
1.1.1) Q1010 MK-76 <sup>(†)</sup> (1)	71.62	114,272	8.184	71.56	107,853	7.718	72.84	128,459	9.357	74.22	97,157	7.211	-	-	-	74.22	97,157	7.211
1.1.2) Q1040 MK-82 INERT <sup>(†)</sup>	2,254.11	8,768	19.764	-	-	-	-	-	-	2,672.68	2,538	6.783	-	-	-	2,672.68	2,538	6.783
1.1.3) Q1050 BLU-109 INERT <sup>(†)</sup> (2)	-	-	-	24,072.00	80	1.926	24,545.00	110	2.700	25,036.00	71	1.778	-	-	-	25,036.00	71	1.778
<i>Subtotal: Recurring Cost</i>	-	-	27.948	-	-	9.644	-	-	12.057	-	-	15.772	-	-	-	-	-	15.772
<i>Subtotal: Hardware - Practice Bombs Cost</i>	-	-	27.948	-	-	9.644	-	-	12.057	-	-	15.772	-	-	-	-	-	15.772
Hardware - Precision Guided Practice Bombs Cost																		
Recurring Cost																		
2.1.1) Q1300 LGTR <sup>(†)</sup>	3,116.56	39,953	124.516	3,489.20	7,410	25.855	3,558.00	7,300	25.973	3,629.00	7,482	27.152	-	-	-	3,629.00	7,482	27.152
<i>Subtotal: Recurring Cost</i>	-	-	124.516	-	-	25.855	-	-	25.973	-	-	27.152	-	-	-	-	-	27.152
<i>Subtotal: Hardware - Precision Guided Practice Bombs Cost</i>	-	-	124.516	-	-	25.855	-	-	25.973	-	-	27.152	-	-	-	-	-	27.152
Hardware - Miscellaneous Cost																		
Recurring Cost																		
3.1.1) Q1062 Miscellaneous Items	-	-	3.671	-	-	0.944	-	-	0.962	-	-	1.008	-	-	-	-	-	1.008
<i>Subtotal: Recurring Cost</i>	-	-	3.671	-	-	0.944	-	-	0.962	-	-	1.008	-	-	-	-	-	1.008

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0160 / Practice Bombs	<b>Item Number / Title [DODIC]:</b> 1 / Practice Bombs

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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: Hardware - Miscellaneous Cost</i>	-	-	3.671	-	-	0.944	-	-	0.962	-	-	1.008	-	-	-	-	-	1.008
<b>Hardware - Prior Years Cost</b>																		
Non Recurring Cost																		
4.1.1) Prior Years	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Prior Years Cost</i>	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - Integrated Logistics Cost</b>																		
5.1) Q1800 Practice Bombs ILS	-	-	0.367	-	-	0.066	-	-	0.067	-	-	0.068	-	-	-	-	-	0.068
5.2) Q1800 Precision Guided Practice Bombs ILS	-	-	0.682	-	-	0.120	-	-	0.122	-	-	0.124	-	-	-	-	-	0.124
<i>Subtotal: Support - Integrated Logistics Cost</i>	-	-	1.049	-	-	0.186	-	-	0.189	-	-	0.192	-	-	-	-	-	0.192
<b>Support - Production Engineering Cost</b>																		
6.1) Q1830 Practice Bombs PES	-	-	5.223	-	-	1.032	-	-	1.043	-	-	1.121	-	-	-	-	-	1.121
6.2) Q1830 Precision Guided Practice Bombs PES	-	-	10.988	-	-	0.851	-	-	0.866	-	-	0.983	-	-	-	-	-	0.983
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	16.211	-	-	1.883	-	-	1.909	-	-	2.104	-	-	-	-	-	2.104
<b>Support - Miscellaneous Support Cost</b>																		
7.1) Q1850 Product Improvement Program (PIP)	-	-	9.150	-	-	0.576	-	-	0.501	-	-	0.510	-	-	-	-	-	0.510
7.2) Q1894 Gaging	-	-	1.561	-	-	0.277	-	-	0.282	-	-	0.289	-	-	-	-	-	0.289
<i>Subtotal: Support - Miscellaneous Support Cost</i>	-	-	10.711	-	-	0.853	-	-	0.783	-	-	0.799	-	-	-	-	-	0.799
<b>Gross/Weapon System Cost</b>	-	-	819.701	-	-	39.365	-	-	41.873	-	-	47.027	-	-	0.000	-	-	47.027

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

**Footnotes:**

(1) Q1010 MK-76 unit cost increase is based off actual FY16 contract award. FY17 though FY22 are updated cost estimates based of contact.

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<b>Exhibit P-5, Cost Analysis:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0160 / Practice Bombs	<b>Item Number / Title [DODIC]:</b> 1 / Practice Bombs
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>	
<sup>(2)</sup> Q1050 BLU-109 INERT supports a newly established inventory baseline for fleet expenditures to meet Non-Combat Expenditure Allocation (NCEA) requirements.		

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date: May 2017**

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0160 / Practice Bombs	<b>Item Number / Title [DODIC]:</b> 1 / Practice Bombs
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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
1.1.1) Q1010 MK-76		2013 <sup>(3)</sup>	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		2017	Delfasco, LLC / Afton, TN	C / FFP	JMC, Rock Island, IL	Mar 2017	Mar 2019	128,459	72.84	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
1.1.2) Q1040 MK-82 INERT		2013	General Dynamics / Garland, TX / MCAAP	SS / FP	JMC, Rock Island, IL	Apr 2013	Apr 2016	1,229	2,469.00	Y		Nov 2012
1.1.2) Q1040 MK-82 INERT		2014	General Dynamics / Garland, TX / MCAAP	SS / FP	JMC, Rock Island, IL	Apr 2014	Apr 2017	738	2,521.04	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	2,538	2,672.68	Y		Nov 2013
1.1.3) Q1050 BLU-109 INERT		2016	EIIWood 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	EIIWood National Forge / Irvine, PA/MCAAP	C / FFP	JMC, Rock Island, IL	Jan 2017	Jan 2020	110	24,545.00	Y		Apr 2015
1.1.3) Q1050 BLU-109 INERT		2018	EIIWood National Forge / Irvine, PA/MCAAP	C / FFP	JMC, Rock Island, IL	Jan 2018	Jan 2021	71	25,036.00	Y		Apr 2015
2.1.1) Q1300 LGTR <sup>(†)</sup>		2013	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Nov 2013	Apr 2015	4,321	3,391.34	Y		Apr 2013
2.1.1) Q1300 LGTR <sup>(†)</sup>		2014	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2014	Jul 2015	8,029	3,334.00	Y		Apr 2013
2.1.1) Q1300 LGTR <sup>(†)</sup>		2015	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2015	Jul 2016	6,747	3,440.00	Y		Apr 2013
2.1.1) Q1300 LGTR <sup>(†)</sup>		2016	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2016	Jul 2017	7,410	3,489.20	Y		Apr 2013
2.1.1) Q1300 LGTR <sup>(†)</sup>		2017	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2017	Jul 2018	7,300	3,558.00	Y		Feb 2015
2.1.1) Q1300 LGTR <sup>(†)</sup>		2018	Lockheed Martin Corporation LGTR / Archbald, PA	SS / IDIQ	NAVAIR, Pax River	Mar 2018	Jul 2019	7,482	3,629.00	Y		Feb 2015

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

<sup>(3)</sup> 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, actual award date was Jan 7, 2016.

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date:** May 2017

**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 Each)</i>						Fiscal Year 2013												Fiscal Year 2014												BALANCE	
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
2.1.1) Q1300 LGTR																															
Prior Years Deliveries: 20856																															
	1	2013	NAVY	4,321 (4)	0	4,321																							4,321		
	1	2014	NAVY	8,029	0	8,029																							8,029		
	1	2015	NAVY	6,747	0	6,747																							6,747		
	1	2016	NAVY	7,410	0	7,410																							7,410		
	1	2017	NAVY	7,300	0	7,300																							7,300		
	1	2018	NAVY	7,482	0	7,482																							7,482		

O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date: May 2017**

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0160 / Practice Bombs	<b>Item Number / Title [DODIC]:</b> 1 / Practice Bombs
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2015													Fiscal Year 2016													BALANCE					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																
							O 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) Q1300 LGTR																																				
Prior Years Deliveries: 20856																																				
1		2013	NAVY	4,321 <sup>(4)</sup>	0	4,321	-	-	-	-	-	-	300	450	450	450	450	450	450	450	450	450	450	450	450	450	450	118	-	-	-	-	-	-	-	303
1		2014	NAVY	8,029	0	8,029	-	-	-	-	-	-	-	-	-	332	450	725	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	582	0	
1		2015	NAVY	6,747	0	6,747							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	417	417	417	5,496	
1		2016	NAVY	7,410	0	7,410																					A	-	-	-	-	-	-	-	7,410	
1		2017	NAVY	7,300	0	7,300																													7,300	
1		2018	NAVY	7,482	0	7,482																													7,482	

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0160 / Practice Bombs	<b>Item Number / Title [DODIC]:</b> 1 / Practice Bombs
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018													BALANCE		
O C C #	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			
2.1.1) Q1300 LGTR																																	
Prior Years Deliveries: 20856																																	
1		2013	NAVY	4,321 (4)	4,018	303	-	-	-	-	-	-	303																	0			
1		2014	NAVY	8,029	8,029	0																							0				
1		2015	NAVY	6,747	1,251	5,496	417	606	639	639	639	639	639	639															0				
1		2016	NAVY	7,410	0	7,410	-	-	-	-	-	-	-	-	618	618	618	618	618	618	617	617	617	617	617	617	617		0				
1		2017	NAVY	7,300	0	7,300																							5,500				
1		2018	NAVY	7,482	0	7,482																							7,482				

O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	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: FY 2018 Navy** **Date:** May 2017

**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 Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
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 D U E A S O F 1 O C T	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) Q1300 LGTR																															
Prior Years Deliveries: 20856																															
1		2013	NAVY	4,321 (4)	4,321	0																									0
1		2014	NAVY	8,029	8,029	0																									0
1		2015	NAVY	6,747	6,747	0																									0
1		2016	NAVY	7,410	7,410	0																									0
1		2017	NAVY	7,300	1,800	5,500	600	600	600	600	600	625	625	625	625													0			
1		2018	NAVY	7,482	0	7,482	-	-	-	-	-	-	-	-	-	624	623	623	623	623	623	623	623	628	623	623	623	623	623	623	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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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Navy	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0160 / Practice Bombs	<b>Item Number / Title [DODIC]:</b> 1 / Practice Bombs
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	Lockheed Martin Corporation LGTR - Archbald, PA	4,000	8,400	22,000	0	0	0	0	0	0	6	16	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).

**Footnotes:**

<sup>(4)</sup> Due to PDOCs limitations the QTY of 303 reflected in March 2017 will deliver in April 2017 QTY of 273 and May 2017 QTY 30 in accordance with the contract delivery schedule. The additional 303 units were awarded with the FY2015 contract.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0180 / Cartridge Actuated Devices/Propellant Act Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	712.127	47.089	54.002	57.718	0.000	57.718	57.197	57.819	58.986	60.171	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	712.127	47.089	54.002	57.718	0.000	57.718	57.197	57.819	58.986	60.171	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>712.127</b>	<b>47.089</b>	<b>54.002</b>	<b>57.718</b>	<b>0.000</b>	<b>57.718</b>	<b>57.197</b>	<b>57.819</b>	<b>58.986</b>	<b>60.171</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

Cartridge Actuated Devices/Propellant Act Devices (CAD/PAD) program's mission is to procure 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) AII 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.

Hardware-Stores Release: Stores Release cartridges are utilized to release weapons and other stores from aircraft. The JAU-22/B impulse cartridge is utilized to eject sonobuoys. 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.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0180 / Cartridge Actuated Devices/Propellant Act Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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				- / 712.127	- / 47.089	- / 54.002	- / 57.718	- / -	- / 57.718
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 712.127</b>	<b>- / 47.089</b>	<b>- / 54.002</b>	<b>- / 57.718</b>	<b>- / 0.000</b>	<b>- / 57.718</b>

\*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 2018 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 lot acceptance testing regarding needed change-outs and service life extensions. 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.

FY 2018 funding increased from PB2017 above inflation rate for 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 growth in the number of active aircraft reported in the OPNAV A-II report that CAD/PAD supports directly correlates to an increase in requirements to ensure adequate assets are available for Fleet support and operational readiness.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1					<b>P-1 Line Item Number / Title:</b> 0180 / Cartridge Actuated Devices/Propellant Act Devices										<b>Aggregated Items Title:</b> Cartridge Actuated Devices/Propellant Act Devices				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>1) Hardware-Stores Release</b>																				
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) <sup>(1)</sup>	A		25.12	333,000	8.366	39.16	9,960	0.390	33.40	14,760	0.493	-	-	-	-	-	-	-	-	
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92)	A		8.34	610,000	5.087	10.73	19,760	0.212	8.30	19,760	0.164	8.46	40,000	0.338	-	-	-	8.46	40,000	0.338
1.3) (Q8201) CCU-45 Impulse CTG (MD65) <sup>(2)</sup>	A		8.28	379,043	3.137	17.50	16,575	0.290	9.21	16,576	0.153	9.38	19,576	0.184	-	-	-	9.38	19,576	0.184
<b>Subtotal: 1) Hardware-Stores Release</b>			-	-	<b>16.590</b>	-	-	<b>0.892</b>	-	-	<b>0.810</b>	-	-	<b>0.522</b>	-	-	-	-	-	<b>0.522</b>
<b>2) Hardware Safety</b>																				
2.1) (Q8060) Thermal Battery (CWDR)	A		4,606.12	1,112	5.122	4,602.51	200	0.921	4,602.51	200	0.921	4,788.45	200	0.958	-	-	-	4,788.45	200	0.958
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30) - NSWC, Indian Head <sup>(3)</sup>	A		1,915.00	1,800	3.447	2,046.67	300	0.614	2,085.56	300	0.626	-	-	-	-	-	-	-	-	
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29/JN30)	A		3,488.98	4,082	14.242	4,226.00	500	2.113	4,310.52	691	2.979	4,280.13	921	3.942	-	-	-	4,280.13	921	3.942
2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30)	A		9,574.66	221	2.116	9,875.00	88	0.869	10,083.33	24	0.242	10,277.78	18	0.185	-	-	-	10,277.78	18	0.185
2.5) (Q8081) MK 124 Underseat RCKT Motor (MT31)	A		9,393.22	295	2.771	9,877.86	131	1.294	10,081.08	37	0.373	10,285.71	28	0.288	-	-	-	10,285.71	28	0.288
2.6) (Q8140) FLU-8/9/12 Inflators (FW98/BY81JL09) <sup>(4)</sup>	A		-	-	13.977	-	-	1.300	-	-	1.500	-	-	1.530	-	-	-	-	-	1.530
2.7) (Q8160) JAU-74 INIT/CCU-146 CTG (WB15/16) <sup>(5)</sup>	A		-	-	12.117	-	-	2.054	-	-	1.854	-	-	1.737	-	-	-	-	-	1.737
2.8) (Q8180) F-18 DIFRS (SR95/WB19)	A		-	-	8.743	-	-	1.418	-	-	0.945	-	-	1.012	-	-	-	-	-	1.012
2.9) (Q8300) Navy Aircrew Common Ejection Seats	A		-	-	9.679	-	-	2.237	-	-	1.964	-	-	1.719	-	-	-	-	-	1.719
2.10) (Q8301) F-18E/F/G & V-22 Fire Suppression Gas <sup>(6)</sup>	A		-	-	15.753	-	-	2.403	-	-	2.410	-	-	3.526	-	-	-	-	-	3.526

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy																	Date: May 2017			
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
2.11) (Q8302) T-6A (JPATS) CAD/PADs (7)	A		-	-	23.590	-	-	9.600	-	-	10.600	-	-	10.812	-	-	-	-	-	10.812
<b>Subtotal: 2) Hardware Safety</b>			-	-	<b>111.557</b>	-	-	<b>24.823</b>	-	-	<b>24.414</b>	-	-	<b>25.709</b>	-	-	-	-	-	<b>25.709</b>
<b>3) Hardware-Misc. Devices</b>																				
3.1) Misc. Devices Under \$500k (8)	A		-	-	90.375	-	-	8.416	-	-	15.603	-	-	18.080	-	-	-	-	-	18.080
<b>Subtotal: 3) Hardware-Misc. Devices</b>			-	-	<b>90.375</b>	-	-	<b>8.416</b>	-	-	<b>15.603</b>	-	-	<b>18.080</b>	-	-	-	-	-	<b>18.080</b>
<b>4) (Q8800) Intergrated Logistics Support</b>																				
4.1) Stores Release ILS	A		-	-	1.184	-	-	0.249	-	-	0.254	-	-	0.259	-	-	-	-	-	0.259
4.2) Safety ILS	A		-	-	4.261	-	-	0.810	-	-	0.825	-	-	0.841	-	-	-	-	-	0.841
4.3) Misc. Devices ILS	A		-	-	2.217	-	-	0.295	-	-	0.300	-	-	0.306	-	-	-	-	-	0.306
<b>Subtotal: 4) (Q8800) Intergrated Logistics Support</b>			-	-	<b>7.662</b>	-	-	<b>1.354</b>	-	-	<b>1.379</b>	-	-	<b>1.406</b>	-	-	-	-	-	<b>1.406</b>
<b>5) (Q8820) Reliability Life</b>																				
5.1) Stores Release Reliability Life	A		-	-	0.671	-	-	0.130	-	-	0.132	-	-	0.135	-	-	-	-	-	0.135
5.2) Safety Reliability Life	A		-	-	2.298	-	-	0.304	-	-	0.307	-	-	0.302	-	-	-	-	-	0.302
5.3) Misc. Devices Reliability Life	A		-	-	1.341	-	-	0.156	-	-	0.159	-	-	0.162	-	-	-	-	-	0.162
<b>Subtotal: 5) (Q8820) Reliability Life</b>			-	-	<b>4.310</b>	-	-	<b>0.590</b>	-	-	<b>0.598</b>	-	-	<b>0.599</b>	-	-	-	-	-	<b>0.599</b>
<b>6) (Q8830) Production Engineering</b>																				
6.1) Stores Release PES	A		-	-	4.902	-	-	1.105	-	-	1.126	-	-	1.149	-	-	-	-	-	1.149
6.2) Safety PES	A		-	-	17.069	-	-	3.348	-	-	3.414	-	-	3.479	-	-	-	-	-	3.479
6.3) Misc. Devices PES	A		-	-	6.905	-	-	0.755	-	-	0.769	-	-	0.784	-	-	-	-	-	0.784
<b>Subtotal: 6) (Q8830) Production Engineering</b>			-	-	<b>28.876</b>	-	-	<b>5.208</b>	-	-	<b>5.309</b>	-	-	<b>5.412</b>	-	-	-	-	-	<b>5.412</b>
<b>7) (Q8840) Quality Assurance</b>																				
7.1) Stores Release QA	A		-	-	0.649	-	-	0.135	-	-	0.136	-	-	0.138	-	-	-	-	-	0.138
7.2) Safety QA	A		-	-	2.426	-	-	0.429	-	-	0.435	-	-	0.442	-	-	-	-	-	0.442
7.3) Misc. Devices QA	A		-	-	1.212	-	-	0.162	-	-	0.165	-	-	0.168	-	-	-	-	-	0.168
<b>Subtotal: 7) (Q8840) Quality Assurance</b>			-	-	<b>4.287</b>	-	-	<b>0.726</b>	-	-	<b>0.736</b>	-	-	<b>0.748</b>	-	-	-	-	-	<b>0.748</b>
<b>8) (Q8850) Product Improvement</b>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0180 / Cartridge Actuated Devices/Propellant Act Devices	<b>Aggregated Items Title:</b> Cartridge Actuated Devices/Propellant Act Devices
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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) Stores Release PIP	A		-	-	2.822	-	-	0.590	-	-	0.602	-	-	0.611	-	-	-	-	-	0.611
8.2) Safety PIP	A		-	-	10.516	-	-	2.040	-	-	2.054	-	-	2.085	-	-	-	-	-	2.085
8.3) Misc. Devices PIP	A		-	-	5.286	-	-	0.693	-	-	0.707	-	-	0.721	-	-	-	-	-	0.721
<b>Subtotal: 8) (Q8850) Product Improvement</b>			-	-	<b>18.624</b>	-	-	<b>3.323</b>	-	-	<b>3.363</b>	-	-	<b>3.417</b>	-	-	-	-	-	<b>3.417</b>
<b>9) (Q8860) Acceptance Testing</b>																				
9.1) Stores Release Acceptance Testing	A		-	-	2.653	-	-	0.450	-	-	0.458	-	-	0.467	-	-	-	-	-	0.467
9.2) Safety Acceptance Testing	A		-	-	8.941	-	-	0.756	-	-	0.770	-	-	0.785	-	-	-	-	-	0.785
9.3) Misc. Devices Acceptance Testing	A		-	-	5.620	-	-	0.551	-	-	0.562	-	-	0.573	-	-	-	-	-	0.573
<b>Subtotal: 9) (Q8860) Acceptance Testing</b>			-	-	<b>17.214</b>	-	-	<b>1.757</b>	-	-	<b>1.790</b>	-	-	<b>1.825</b>	-	-	-	-	-	<b>1.825</b>
<b>10) Prior Years</b>																				
10.1) Prior Years Cumulative Funding	A		-	-	412.632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: 10) Prior Years</b>			-	-	<b>412.632</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	<b>712.127</b>	-	-	<b>47.089</b>	-	-	<b>54.002</b>	-	-	<b>57.718</b>	-	-	-	-	-	<b>57.718</b>

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

**Footnotes:**

- (1) FY18-FY22 requirement removed due to the planned sun-downing of the P-3 and S-3 aircraft, sufficient inventory on hand to support through sun-downing and item usage rates.
- (2) FY18 requirement of 19,579 units is based on historical item usage rates which determine sufficient inventory on hand to support effort.
- (3) 2.2 and 2.3 (Q2070) MK-122 Parachute Deployment Rocket Motor (MT29) requirements are produced organically and procured commercially. This component is scheduled to be replaced with improved devices. The current production of 300 MT-29's will be modified to reduce risk associated with the introduction of the new fleet asset. The JN30 is the replacement for the MT29.
- (4) 2.8) (Q8140) 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.
- (5) 2.9) (Q8160) JAU-74 INIT / CCU-146 CTG (WB15/16) cost element funds 2 items. Fluctuations in the requirements are based on active aircraft, platform availability and component service life.
- (6) 2.12)(Q8301) F-18/E/F/G and V-22 Fire Suppression Gas - the number of active aircraft in the OPNAV A-II report increased for the F/A-18/F from 260 to 264 and the MV-22B from 277 to 295. This increase directly correlates to an increase in requirements to ensure adequate assets are available for Fleet support and operational readiness.
- (7) 2.13) (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.
- (8) 3.1) Misc. Devices Under \$500k cost element - FY 2018 funding increased above the inflation rate from FY 2017 for 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 growth in the number of active aircraft reported in the OPNAV A-II report that CAD/PAD supports directly correlates to an increase in requirements to ensure adequate assets are available for Fleet support and operational readiness.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0182 / Air Expendable Countermeasures
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604270N, 0604279N
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**Line Item MDAP/MAIS Code:** 418

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,194.955	56.933	64.094	65.908	15.700	81.608	67.432	68.754	70.176	71.615	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,194.955	56.933	64.094	65.908	15.700	81.608	67.432	68.754	70.176	71.615	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1,194.955</b>	<b>56.933</b>	<b>64.094</b>	<b>65.908</b>	<b>15.700</b>	<b>81.608</b>	<b>67.432</b>	<b>68.754</b>	<b>70.176</b>	<b>71.615</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 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. 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. The GEN-X active RF decoy is dispensed from the ALE-47 system and protects all Navy and Marine Corps fixed wing aircraft from modern surface-to-air and air-to-air threats.

**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 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.

**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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		<b>P-1 Line Item Number / Title:</b> 0182 / Air Expendable Countermeasures
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604270N, 0604279N
<b>Line Item MDAP/MAIS Code:</b> 418		
F-35 COUNTERMEASURES: 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. MJU-69 and CCU-168 were removed from the F-35 countermeasure suite and funding re-aligned to MJU-68 to support inventory objectives.		

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

**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, 0604279N

**Line Item MDAP/MAIS Code:** 418

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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				- / 1,194.955	- / 56.933	- / 64.094	- / 65.908	- / 15.700	- / 81.608
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 1,194.955</b>	<b>- / 56.933</b>	<b>- / 64.094</b>	<b>- / 65.908</b>	<b>- / 15.700</b>	<b>- / 81.608</b>

\*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 2018 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.

OCO:  
FY 2018 Overseas Contingency Operations (OCO) funding supports requirements set forth in a Joint Urgent Operational Need Statement (JUONS) 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). Without this minimum level of funding, Fleet readiness will be impacted.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy																Date: May 2017				
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 <sup>(1)</sup>								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>1) ACTIVE JAMMERS</b>																				
1.1) ALE-50 (AAED)	A		-	-	54.095	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) ALE-55 (FOTD) (2)	A		85,487.09	1,704	145.670	70,788.00	284	20.104	73,762.45	261	19.252	72,534.88	301	21.833	-	-	-	72,534.88	301	21.833
1.3) TECHNICAL SUPPORT (ACTIVE JAMMER)	A		-	-	1.458	-	-	0.836	-	-	0.852	-	-	0.864	-	-	-	-	-	0.864
<b>Subtotal: 1) ACTIVE JAMMERS</b>			-	-	<b>201.223</b>	-	-	<b>20.940</b>	-	-	<b>20.104</b>	-	-	<b>22.697</b>	-	-	-	-	-	<b>22.697</b>
<b>2) IR DECOYS</b>																				
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		342.92	214,699	73.625	124.85	15,840	1.978	126.54	8,376	1.060	129.07	7,962	1.028	129.07	8,266	1.067	129.07	16,228	2.095
2.6) MJU-61	A		90.72	45,669	4.143	60.00	32,074	1.924	67.38	28,080	1.892	68.72	27,197	1.869	68.72	17,127	1.177	68.72	44,324	3.046
2.7) MJU-64 <sup>(3)</sup>	A		90.78	147,835	13.421	97.31	15,330	1.492	97.85	828	0.081	99.70	1,284	0.128	-	-	-	99.70	1,284	0.128
2.8) MJU-66 <sup>(4)</sup>	A		128.69	58,078	7.474	134.27	19,044	2.557	136.82	19,003	2.600	-	-	-	-	-	-	-	-	-
2.9) MJU-67	A		394.69	26,327	10.391	-	-	-	431.45	29,059	12.538	439.64	10,423	4.582	439.64	18,355	8.070	439.64	28,778	12.652
2.10) SM875	A		37.49	1,396,756	52.359	23.00	514,641	11.837	23.44	132,252	3.100	23.88	68,299	1.631	23.88	195,687	4.673	23.88	263,986	6.304
<b>Subtotal: 2) IR DECOYS</b>			-	-	<b>485.568</b>	-	-	<b>19.788</b>	-	-	<b>21.271</b>	-	-	<b>9.238</b>	-	-	<b>14.987</b>	-	-	<b>24.225</b>
<b>3) IMPULSE CARTRIDGES</b>																				
3.1) CCU-136	A		9.10	5,365,860	48.830	3.90	618,714	2.413	3.97	401,007	1.592	4.04	400,496	1.618	-	-	-	4.04	400,496	1.618
3.2) CCU-145	A		6.58	1,367,105	8.992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: 3) IMPULSE CARTRIDGES</b>			-	-	<b>57.822</b>	-	-	<b>2.413</b>	-	-	<b>1.592</b>	-	-	<b>1.618</b>	-	-	-	-	-	<b>1.618</b>
<b>4) CHAFF COUNTERMEASURES</b>																				
4.1) RR-129	A		12.42	343,196	4.263	13.15	135,589	1.783	13.92	39,224	0.546	14.18	130,395	1.849	-	-	-	14.18	130,395	1.849
4.2) RR-144	A		31.47	639,195	20.113	15.58	36,393	0.567	-	-	-	-	-	-	-	-	-	-	-	-
4.3) RR-170	A		9.72	58,646	0.570	4.14	28,261	0.117	-	-	-	-	-	-	-	-	-	-	-	-
4.4) RR-188	A		-	-	0.121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: 4) CHAFF COUNTERMEASURES</b>			-	-	<b>25.067</b>	-	-	<b>2.467</b>	-	-	<b>0.546</b>	-	-	<b>1.849</b>	-	-	-	-	-	<b>1.849</b>
<b>5) F-35 COUNTERMEASURES</b>																				
5.1) ALE-70 <sup>(5)</sup>	A		56,474.66	592	33.433	-	-	-	56,850.58	72	4.093	55,088.21	252	13.882	-	-	-	55,088.21	252	13.882
5.2) MJU-68 <sup>(6)</sup>	A		2,490.82	6,318	15.737	-	-	-	2,899.95	2,332	6.763	2,955.04	2,247	6.640	-	-	-	2,955.04	2,247	6.640
5.3) MJU-69 <sup>(7)</sup>	A		2,242.67	2,081	4.667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) CCU-168 <sup>(8)</sup>	A		327.87	2,257	0.740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy																Date: May 2017				
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 <sup>(1)</sup>								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Subtotal: 5) F-35 COUNTERMEASURES</b>			-	-	54.577	-	-	-	-	-	10.856	-	-	20.522	-	-	-	-	-	20.522
<b>6) INTEGRATED LOGISTICS SUPPORT</b>																				
6.1) ACTIVE JAMMERS	A		-	-	2.873	-	-	0.218	-	-	0.230	-	-	0.232	-	-	-	-	-	0.232
6.2) IR DECOYS	A		-	-	19.261	-	-	2.040	-	-	1.373	-	-	1.399	-	-	-	-	-	1.399
6.3) IMPULSE CARTRIDGES	A		-	-	1.510	-	-	0.050	-	-	0.098	-	-	0.100	-	-	-	-	-	0.100
6.4) CHAFF COUNTERMEASURES	A		-	-	1.112	-	-	0.040	-	-	0.054	-	-	0.055	-	-	-	-	-	0.055
6.5) F-35 COUNTERMEASURES	A		-	-	1.015	-	-	-	-	-	0.586	-	-	0.597	-	-	-	-	-	0.597
<b>Subtotal: 6) INTEGRATED LOGISTICS SUPPORT</b>			-	-	25.771	-	-	2.348	-	-	2.341	-	-	2.383	-	-	-	-	-	2.383
<b>7) PRODUCTION ENGINEERING SUPPORT</b>																				
7.1) ACTIVE JAMMERS	A		-	-	30.012	-	-	0.565	-	-	0.571	-	-	0.605	-	-	-	-	-	0.605
7.2) IR DECOYS	A		-	-	66.882	-	-	2.484	-	-	1.648	-	-	1.674	-	-	-	-	-	1.674
7.3) IMPULSE CARTRIDGES	A		-	-	5.219	-	-	0.150	-	-	0.167	-	-	0.170	-	-	-	-	-	0.170
7.4) CHAFF COUNTERMEASURES	A		-	-	2.759	-	-	0.080	-	-	0.067	-	-	0.068	-	-	-	-	-	0.068
7.5) F-35 COUNTERMEASURES	A		-	-	7.693	-	-	-	-	-	0.844	-	-	0.860	-	-	-	-	-	0.860
<b>Subtotal: 7) PRODUCTION ENGINEERING SUPPORT</b>			-	-	112.565	-	-	3.279	-	-	3.297	-	-	3.377	-	-	-	-	-	3.377
<b>8) PRODUCT IMPROVEMENT PROGRAM</b>																				
8.1) IR DECOYS	A		-	-	92.979	-	-	0.850	-	-	1.009	-	-	1.028	-	-	-	-	-	1.028
8.2) IMPULSE CARTRIDGES	A		-	-	12.191	-	-	0.100	-	-	0.238	-	-	0.243	-	-	-	-	-	0.243
8.3) CHAFF COUNTERMEASURES	A		-	-	0.703	-	-	0.030	-	-	0.015	-	-	0.015	-	-	-	-	-	0.015
8.4) F-35 COUNTERMEASURES	A		-	-	-	-	-	-	-	-	0.409	-	-	-	-	-	-	-	-	-
<b>Subtotal: 8) PRODUCT IMPROVEMENT PROGRAM</b>			-	-	105.873	-	-	0.980	-	-	1.671	-	-	1.286	-	-	-	-	-	1.286
<b>9) ACCEPTANCE TEST &amp; EVALUATION <sup>(9)</sup></b>																				
9.1) IR DECOYS	A		-	-	105.055	-	-	4.052	-	-	1.753	-	-	1.949	-	-	0.713	-	-	2.662
9.2) IMPULSE CARTRIDGES	A		-	-	15.696	-	-	0.175	-	-	0.162	-	-	0.165	-	-	-	-	-	0.165
9.3) CHAFF COUNTERMEASURES	A		-	-	5.135	-	-	0.040	-	-	0.041	-	-	0.042	-	-	-	-	-	0.042

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0182 / Air Expendable Countermeasures	<b>Aggregated Items Title:</b> Air Expendable Countermeasures <sup>(1)</sup>
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 (10)	A		-	-	0.603	-	-	0.451	-	-	0.460	-	-	0.782	-	-	-	-	-	0.782
<b>Subtotal: 9) ACCEPTANCE TEST &amp; EVALUATION</b>			-	-	<b>126.489</b>	-	-	<b>4.718</b>	-	-	<b>2.416</b>	-	-	<b>2.938</b>	-	-	<b>0.713</b>	-	-	<b>3.651</b>
<b>Total</b>			-	-	<b>1,194.955</b>	-	-	<b>56.933</b>	-	-	<b>64.094</b>	-	-	<b>65.908</b>	-	-	<b>15.700</b>	-	-	<b>81.608</b>

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

**Footnotes:**

- <sup>(1)</sup> (a) Unit cost for hardware in FY 2018 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.
- <sup>(2)</sup> ALE-55 FY 2018 (Full-Rate Production 6-9) ALE-55 unit prices and technical support reflect negotiated contract values. FY 2018 unit cost reduction from FY 2017 due to the increase in ALE-55 quantities (FY17-Qty. 261, FY18-Qty. 301) resulting in a lower unit price.
- <sup>(3)</sup> MJU-64 FY 2018 unit price increase is based on inflation.
- <sup>(4)</sup> MJU-66 FY 2018 quantities reduced to align to funding profile in accordance with Navy priorities.
- <sup>(5)</sup> ALE-70 FY 2018 funds increased to ensure operational squadrons have sufficient countermeasures per operational aircraft. Unit cost decreased due to anticipated 5 percent material savings realized from increased procurements.
- <sup>(6)</sup> MJU-68 FY 2018 unit cost is based on inflation. Quantities increased based on countermeasure effectiveness test results and subsequent elimination of MJU-69 and CCU-168 from F-35 countermeasure suite. MJU-68 Quantity increase supports F-35C IOC requirement and builds inventory towards Naval Munitions Requirements Process for Combat Requirement.
- <sup>(7)</sup> MJU-69 funds re-aligned to MJU-68 due to elimination from F-35 countermeasure suite based on effectiveness test results.
- <sup>(8)</sup> CCU-168 funds re-aligned to MJU-68 due to elimination from F-35 countermeasure suite based on effectiveness test results.
- <sup>(9)</sup> 9 (ATE) Funding varies annually based on countermeasure production schedules and type of Lot Acceptance Testing required.
- <sup>(10)</sup> 9.4 (ATE F-35 Countermeasures) FY 2018 through FY 2022 increase above inflation to support increased F-35 Countermeasures procurement.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0194 / Jet Assisted Take Off (JATOs)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	61.711	2.806	2.735	2.895	0.540	3.435	2.973	3.033	3.098	3.161	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	61.711	2.806	2.735	2.895	0.540	3.435	2.973	3.033	3.098	3.161	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>61.711</b>	<b>2.806</b>	<b>2.735</b>	<b>2.895</b>	<b>0.540</b>	<b>3.435</b>	<b>2.973</b>	<b>3.033</b>	<b>3.098</b>	<b>3.161</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

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.

Beginning in FY2018, the program will begin procurement of the Mk-85 RATO to support the introduction of the BQM-177 Subsonic Aerial Target (SSAT) operations. The program will begin a transition throughout the FYDP from the Mk-117 JATO to the Mk-85 RATO to support the change in requirement.

**Justification:**

The FY 2018 baseline funding is required for Mk-117 procurement to enable continued BQM-74 target operations. Funding supports deliveries to match the anticipated expenditures to support the Navy surface fleet to conduct pre-deployment training. In addition, starting in FY2018, procurements for the Mk-85 Rocket Assisted Take Offs (RATOs) will begin. 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 support to include production engineering support, integrated logistics support, and reliability life (i.e. safety and product improvement program, and quality assurance and acceptance testing). During the Mk-117/Mk-85 transition, production support costs will increase to support both variants.

**OCO:**

FY 2018 Overseas Contingency Operations (OCO) is required to procure MK 117 JATOs used in pre-deployment combat qualification exercises in support of Operation Freedom's Sentinel, replenishing actual supply levels.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0198 / LRLAP 155MM Long Range Land Attack Projectile
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0204202N
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	116.224	4.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	116.224	4.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>116.224</b>	<b>4.540</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

Long Range Land Attack Projectile (LRLAP) supported MK 51 Gun Weapon System (GWS) munitions requirements for the DDG-1000 Class destroyer.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	213.585	41.194	19.220	22.112	0.000	22.112	29.468	28.709	29.492	30.085	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	213.585	41.194	19.220	22.112	0.000	22.112	29.468	28.709	29.492	30.085	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>213.585</b>	<b>41.194</b>	<b>19.220</b>	<b>22.112</b>	<b>0.000</b>	<b>22.112</b>	<b>29.468</b>	<b>28.709</b>	<b>29.492</b>	<b>30.085</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

Program provides 5"/54 ammunition fired from Cruiser and Destroyer combatant ships against air, surface, and shore targets. Program procures multiple types of ammunition including propelling charges, high-explosive projectiles and training rounds.

This program supports the procurement of 5"/54 Ammunition Hardware which includes components, load and assemble complete rounds and provides funds to conduct 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.

Additionally funding supports Product Improvement 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. Renovation components used to upgrade unserviceable rounds into ready-for-issue condition are also supported along with production engineering for engineering services to support new acquisition and in production ammunition.

Lastly Gauge Requirements are supported 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. 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-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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			- / 213.585	- / 41.194	- / 19.220	- / 22.112	- / 0.000	- / 22.112
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 213.585</b>	<b>- / 41.194</b>	<b>- / 19.220</b>	<b>- / 22.112</b>	<b>- / 0.000</b>	<b>- / 22.112</b>

\*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 2018 baseline funding is required to procure 5"/54 ammunition, including propelling charges, and training projectiles. 5"/54 ammunition is used in conjunction with the MK34 Gun Weapon System on DDG51 and CG47 platforms to provide Naval Surface Fire Support, Anti Air Warfare, Anti Surface Warfare, and Fast Attack Craft/Fast In-Shore Attack Craft (FAC/FIAC) defense.

Baseline program also funds Production Engineering and Gauge requirements for all 5"/54 ammunition. FY 2018 Product Improvement Program will address cartridge case obsolescence for the 5"/54 propelling charge.

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**Exhibit P-5, Cost Analysis: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	213.585	41.194	19.220	22.112	0.000	22.112
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	213.585	41.194	19.220	22.112	0.000	22.112
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>213.585</b>	<b>41.194</b>	<b>19.220</b>	<b>22.112</b>	<b>0.000</b>	<b>22.112</b>

*(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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Hardware - AC100 5"/54 AMMUNITION HARDWARE Cost</b>																		
<b>Recurring Cost</b>																		
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) <sup>(†)</sup>	907.12	65,322	59.255	925.93	9,005	8.338	944.42	8,385	7.919	-	-	-	-	-	-	-	-	-
1.1.3) 5"/54 CHG, PROP, FULL (DA65) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	998.62	13,719	13.700	-	-	-	998.62	13,719	13.700
1.1.4) 5"54 PROJ, BLP/T (D349) <sup>(†)</sup>	426.30	28,264	12.049	442.78	13,659	6.048	465.61	6,912	3.218	479.56	7,872	3.775	-	-	-	479.56	7,872	3.775
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48) <sup>(†)</sup>	1,941.27	28,944	56.188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.6) TRANSPORTATION ACCT CODE	-	-	2.108	-	-	0.240	-	-	0.289	-	-	0.290	-	-	-	-	-	0.290
1.1.7) PE/QA SMCA	-	-	1.235	-	-	0.039	-	-	0.050	-	-	0.025	-	-	-	-	-	0.025
1.1.8) PRIOR YEARS CUMULATIVE FUNDING	-	-	25.388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	156.757	-	-	14.665	-	-	11.476	-	-	17.790	-	-	-	-	-	17.790
<i>Subtotal: Hardware - AC100 5"/54 AMMUNITION HARDWARE Cost</i>	-	-	156.757	-	-	14.665	-	-	11.476	-	-	17.790	-	-	-	-	-	17.790

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition						<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Hardware - AC850 PRODUCT IMPROVEMENT Cost</b>																		
Recurring Cost																		
2.1.1) PRODUCT IMPROVEMENT (1)	-	-	15.185	-	-	1.933	-	-	0.939	-	-	0.830	-	-	-	-	-	0.830
<i>Subtotal: Recurring Cost</i>	-	-	15.185	-	-	1.933	-	-	0.939	-	-	0.830	-	-	-	-	-	0.830
<b>Subtotal: Hardware - AC850 PRODUCT IMPROVEMENT Cost</b>	-	-	<b>15.185</b>	-	-	<b>1.933</b>	-	-	<b>0.939</b>	-	-	<b>0.830</b>	-	-	-	-	-	<b>0.830</b>
<b>Hardware - AC893 RENOVATION COMPONENTS Cost</b>																		
Recurring Cost																		
3.1.1) RENOVATION COMPONENTS	-	-	12.294	-	-	21.222	-	-	3.375	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	12.294	-	-	21.222	-	-	3.375	-	-	-	-	-	-	-	-	-
<b>Subtotal: Hardware - AC893 RENOVATION COMPONENTS Cost</b>	-	-	<b>12.294</b>	-	-	<b>21.222</b>	-	-	<b>3.375</b>	-	-	-	-	-	-	-	-	-
<b>Hardware - AC894 GAUGE REQUIREMENTS Cost</b>																		
Recurring Cost																		
4.1.1) GAUGE REQUIREMENTS	-	-	2.758	-	-	0.270	-	-	0.340	-	-	0.350	-	-	-	-	-	0.350
<i>Subtotal: Recurring Cost</i>	-	-	2.758	-	-	0.270	-	-	0.340	-	-	0.350	-	-	-	-	-	0.350
<b>Subtotal: Hardware - AC894 GAUGE REQUIREMENTS Cost</b>	-	-	<b>2.758</b>	-	-	<b>0.270</b>	-	-	<b>0.340</b>	-	-	<b>0.350</b>	-	-	-	-	-	<b>0.350</b>
<b>Hardware - ACG86 Overseas Contingency Operations (OCO) Cost</b>																		
Non Recurring Cost																		
5.1.1) Overseas Contingency Operations (OCO)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Hardware - ACG86 Overseas Contingency Operations (OCO) Cost</b>	-	-	<b>0.001</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - AC830 PRODUCTION ENGINEERING Cost</b>																		
6.1) PRODUCTION ENGINEERING	-	-	26.590	-	-	3.104	-	-	3.090	-	-	3.142	-	-	-	-	-	3.142
<i>Subtotal: Support - AC830 PRODUCTION ENGINEERING Cost</i>	-	-	26.590	-	-	3.104	-	-	3.090	-	-	3.142	-	-	-	-	-	3.142

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition						<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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	-	-	213.585	-	-	41.194	-	-	19.220	-	-	22.112	-	-	0.000	-	-	22.112

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

**Footnotes:**

(1) FY 2018 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: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.2) 5/54 CHG, PROP, FULL (D326)		2014	MCALESTER AAP1 / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Jun 2014	May 2017	15,881	889.30	Y		Nov 2013
1.1.2) 5/54 CHG, PROP, FULL (D326)		2015	MCALESTER AAP3 / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Mar 2015	Jan 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
1.1.2) 5/54 CHG, PROP, FULL (D326)		2017	MCALESTER AAP2 / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Mar 2017	Sep 2018	8,385	944.42	Y		Nov 2016
1.1.3) 5"/54 CHG, PROP, FULL (DA65) <sup>(t)</sup>		2018	TBD / TBD	C / FFP	NSWC IH	Mar 2018	Jun 2019	13,719	998.62	N	Apr 2017	Nov 2017
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	6,912	465.61	Y		Oct 2016
1.1.4) 5"54 PROJ, BLP/T (D349)		2018	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2018	Sep 2019	7,872	479.56	N	Apr 2017	Nov 2017
1.1.5) 5"/54 PROJ, MULTI OPTION FUZE (DA48)		2011	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Aug 2011	Jul 2017	13,488	1,882.78	Y		Nov 2010
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

<sup>(t)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date: May 2017**

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2011												Fiscal Year 2012												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011												Calendar Year 2012												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																															
1		2018	NAVY	13.719	.000	13.719																								13.719	
							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: FY 2018 Navy** **Date: May 2017**

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2013												Fiscal Year 2014												BALANCE	
O C C #	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
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																															
1		2018	NAVY	13.719	.000	13.719																							13.719		
							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: FY 2018 Navy** **Date: May 2017**

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE	
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
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																															
	1	2018	NAVY	13.719	.000	13.719																								13.719	
							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: FY 2018 Navy** **Date:** May 2017

**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 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																															
1		2018	NAVY	13.719	.000	13.719																							A - - - - - - -	13.719	
							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: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
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
1.1.3) 5"/54 CHG, PROP, FULL (DA65)																															
	1	2018	NAVY	13.719	.000	13.719	-	-	-	-	-	-	-	-	6.000	7.719														.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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<b>Exhibit P-21, Production Schedule: FY 2018 Navy</b>									<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1					<b>P-1 Line Item Number / Title:</b> 0250 / 5 Inch/54 Gun Ammunition					<b>Item Number / Title [DODIC]:</b> 1 / 5 Inch/54 Gun Ammunition			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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 - TBD	5,000	60,000	120,000	6	6	18	24	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:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0266 / Intermediate Caliber Gun Ammo
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	101.685	33.715	30.196	12.804	0.000	12.804	14.449	37.569	38.277	39.045	-	307.740
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	101.685	33.715	30.196	12.804	0.000	12.804	14.449	37.569	38.277	39.045	-	307.740
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>101.685</b>	<b>33.715</b>	<b>30.196</b>	<b>12.804</b>	<b>0.000</b>	<b>12.804</b>	<b>14.449</b>	<b>37.569</b>	<b>38.277</b>	<b>39.045</b>	<b>-</b>	<b>307.740</b>

*(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:**

Program provides for 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.

**Justification:**

FY18 baseline funding procures 57MM high explosive and training ammunition. 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-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** 000

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	165.139	50.157	39.009	41.594	13.789	55.383	42.695	41.819	42.674	43.534	-	480.410
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	165.139	50.157	39.009	41.594	13.789	55.383	42.695	41.819	42.674	43.534	-	480.410
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>165.139</b>	<b>50.157</b>	<b>39.009</b>	<b>41.594</b>	<b>13.789</b>	<b>55.383</b>	<b>42.695</b>	<b>41.819</b>	<b>42.674</b>	<b>43.534</b>	<b>-</b>	<b>480.410</b>

*(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:**

Program provides Other Ship Gun Ammunition which consists of medium caliber types (20MM, 25MM, 30MM, 40MM). This supports Navy ships, and active and reserve ashore warfare forces including Naval Expeditionary Combat Command (NECC), Mobile Security Forces (MSF), fleet combat readiness groups, inshore undersea warfare groups and several other type of operational units. Program includes support for emergent anti-terrorism/force protection and homeland defense requirements.

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Navy	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	50.100	38.956	41.538	13.789	55.327	42.638	41.764	42.618	43.477
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.057	0.053	0.056	-	0.056	0.057	0.055	0.056	0.057
<b>Total:</b>	<b>Quantity</b>	<b>-</b>								
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>50.157</b>	<b>39.009</b>	<b>41.594</b>	<b>13.789</b>	<b>55.383</b>	<b>42.695</b>	<b>41.819</b>	<b>42.674</b>	<b>43.534</b>

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

**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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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			- / 153.684	- / 41.725	- / 35.242	- / 37.687	- / 0.000	- / 37.687
P-5	2 / Naval Special Warfare	P-5a			- / 11.455	- / 8.432	- / 3.767	- / 3.907	- / 13.789	- / 17.696
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 165.139</b>	<b>- / 50.157</b>	<b>- / 39.009</b>	<b>- / 41.594</b>	<b>- / 13.789</b>	<b>- / 55.383</b>

\*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 2018 baseline funding procures 20MM ammunition used for ship defense in MK15 Close-In Weapon System, 25MM ammunition used for FAC/FIAC defense in MK38 MOD 2 Machine Gun System on all platforms other than LPD & 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 2018 baseline funding procures Naval Special Warfare (NSW) low velocity 40MM grenades for hand held grenade launchers, high velocity, linked 40MM grenades for automatic grenade launchers, and components. Baseline program funds are also necessary for production engineering as required by DoD and Navy safety and acquisition regulations.

OCO:  
FY 2018 Overseas Contingency Operations (OCO) funding is required to replenish service common munitions expended by Naval Special Warfare (NSW) in combat operations in theater and pre-deployment training in support of Operation Inherent Resolve (OIR). A significant portion of the NSW inventory of stand-off and anti-armored vehicle weapons were depleted in order to meet urgent combat operation requirements in theater. These systems deliver a critical force protection capability and the ability to provide responsive fire for US Navy SEAL Teams deployed in critical areas of operation.

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>						<b>Date: May 2017</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1				<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition			<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				153.684	41.725	35.242	37.687	0.000	37.687
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				153.684	41.725	35.242	37.687	0.000	37.687
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>153.684</b>	<b>41.725</b>	<b>35.242</b>	<b>37.687</b>	<b>0.000</b>	<b>37.687</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Hardware - 25MM - (AG100) CARTRIDGES Cost</b>																		
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) <sup>(†)</sup>	-	-	6.223	25.27	133,680	3.378	25.78	111,225	2.867	26.29	121,950	3.206	-	-	0.000	26.29	121,950	3.206
Subtotal: Recurring Cost	-	-	10.454	-	-	3.378	-	-	2.867	-	-	3.206	-	-	0.000	-	-	3.206
Subtotal: Hardware - 25MM - (AG100) CARTRIDGES Cost	-	-	<b>10.454</b>	-	-	<b>3.378</b>	-	-	<b>2.867</b>	-	-	<b>3.206</b>	-	-	<b>0.000</b>	-	-	<b>3.206</b>
<b>Hardware - 30MM - (AG100) CARTRIDGES Cost</b>																		
Recurring Cost																		
2.1.1) CART., 30MM APFSDS-T (AB51) <sup>(†)</sup>	405.73	59,796	24.261	-	-	0.000	365.58	14,812	5.415	376.72	26,224	9.879	-	-	0.000	376.72	26,224	9.879
2.1.2) CART., 30MM TP-T LKD (AA90) <sup>(†)</sup>	48.56	36,860	1.790	55.34	112,992	6.253	-	-	0.000	53.49	27,519	1.472	-	-	0.000	53.49	27,519	1.472
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) <sup>(†)</sup>	95.37	187,138	17.848	159.76	82,020	13.104	146.75	30,800	4.520	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	43.899	-	-	19.357	-	-	9.935	-	-	11.351	-	-	0.000	-	-	11.351
Subtotal: Hardware - 30MM - (AG100) CARTRIDGES Cost	-	-	<b>43.899</b>	-	-	<b>19.357</b>	-	-	<b>9.935</b>	-	-	<b>11.351</b>	-	-	<b>0.000</b>	-	-	<b>11.351</b>
<b>Hardware - 40MM - (AG100) CARTRIDGES Cost</b>																		

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition						<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Recurring Cost</b>																		
3.1.1) CTG 40MM HEDP (B546) <sup>(†)</sup>	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) <sup>(†)</sup>	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) <sup>(†)</sup>	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
<i>Subtotal: Recurring Cost</i>	-	-	27.466	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - 40MM - (AG100) CARTRIDGES Cost</i>	-	-	27.466	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Hardware - OTHER - (AG100) CARTRIDGES Cost</b>																		
<b>Recurring Cost</b>																		
4.1.1) TRANSPORTATION ACCT CODE	-	-	2.240	-	-	0.332	-	-	0.458	-	-	0.312	-	-	0.000	-	-	0.312
4.1.2) PE/QA SMCA	-	-	1.596	-	-	0.179	-	-	0.183	-	-	0.186	-	-	0.000	-	-	0.186
<i>Subtotal: Recurring Cost</i>	-	-	3.836	-	-	0.511	-	-	0.641	-	-	0.498	-	-	0.000	-	-	0.498
<i>Subtotal: Hardware - OTHER - (AG100) CARTRIDGES Cost</i>	-	-	3.836	-	-	0.511	-	-	0.641	-	-	0.498	-	-	0.000	-	-	0.498
<b>Hardware - (AG200) CARTRIDGES Cost</b>																		
<b>Recurring Cost</b>																		
5.1.1) CART., 20MM DUMMY, M51A4N (AA20) <sup>(†)</sup>	11.42	262,240	2.995	14.06	21,050	0.296	-	-	0.000	14.66	20,800	0.305	-	-	0.000	14.66	20,800	0.305
5.1.2) CART., 20MM MK 244 ELC (AA61) <sup>(†)</sup>	31.94	1,874,159	59.857	32.63	476,155	15.537	32.31	591,953	19.126	32.79	599,150	19.646	-	-	0.000	32.79	599,150	19.646
<i>Subtotal: Recurring Cost</i>	-	-	62.852	-	-	15.833	-	-	19.126	-	-	19.951	-	-	0.000	-	-	19.951

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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: Hardware - (AG200) CARTRIDGES Cost</i>	-	-	62.852	-	-	15.833	-	-	19.126	-	-	19.951	-	-	0.000	-	-	19.951
Hardware - OTHER - (AG200) CARTRIDGES Cost																		
Recurring Cost																		
6.1.1) PE/QA SMCA-AG200	-	-	0.841	-	-	0.194	-	-	0.200	-	-	0.207	-	-	0.000	-	-	0.207
<i>Subtotal: Recurring Cost</i>	-	-	0.841	-	-	0.194	-	-	0.200	-	-	0.207	-	-	0.000	-	-	0.207
<i>Subtotal: Hardware - OTHER - (AG200) CARTRIDGES Cost</i>	-	-	0.841	-	-	0.194	-	-	0.200	-	-	0.207	-	-	0.000	-	-	0.207
Hardware - (AG894) GAUGE REQUIREMENTS Cost																		
Recurring Cost																		
7.1.1) GAUGE REQUIREMENTS	-	-	0.317	-	-	0.108	-	-	0.037	-	-	0.038	-	-	0.000	-	-	0.038
<i>Subtotal: Recurring Cost</i>	-	-	0.317	-	-	0.108	-	-	0.037	-	-	0.038	-	-	0.000	-	-	0.038
<i>Subtotal: Hardware - (AG894) GAUGE REQUIREMENTS Cost</i>	-	-	0.317	-	-	0.108	-	-	0.037	-	-	0.038	-	-	0.000	-	-	0.038
Support - (AG830) PRODUCTION ENGINEERING Cost																		
8.1) PRODUCTION ENGINEERING	-	-	4.019	-	-	2.344	-	-	2.436	-	-	2.436	-	-	0.000	-	-	2.436
<i>Subtotal: Support - (AG830) PRODUCTION ENGINEERING Cost</i>	-	-	4.019	-	-	2.344	-	-	2.436	-	-	2.436	-	-	0.000	-	-	2.436
<b>Gross/Weapon System Cost</b>	-	-	<b>153.684</b>	-	-	<b>41.725</b>	-	-	<b>35.242</b>	-	-	<b>37.687</b>	-	-	<b>0.000</b>	-	-	<b>37.687</b>

**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.

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
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	Mar 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	Mar 2017	Apr 2018	111,225	25.78	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
2.1.1) CART., 30MM APFSDS-T (AB51)		2014	GENERAL DYNAMICS OTS / MARION, IL	SS / FFP	NSWC IHD	May 2015	Mar 2017	19,097	460.28	Y		May 2014
2.1.1) CART., 30MM APFSDS-T (AB51)		2017	TBD / TBD	C / FFP	ACC-NJ	Sep 2017	Dec 2018	14,812	365.58	Y		Jun 2015
2.1.1) CART., 30MM APFSDS-T (AB51)		2018	TBD / TBD	C / FFP	ACC-NJ	Mar 2018	Jun 2019	26,224	376.72	Y		Jun 2015
2.1.2) CART., 30MM TP-T LKD (AA90)		2016	GENERAL DYNAMICS OTS / MARION, IL	C / FFP	JMC ROCK ISLAND	Mar 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		Sep 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)		2011	ORBITAL ATK / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Jan 2013	Nov 2016	112,200	102.08	Y		Jul 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)		2014	ORBITAL ATK / RADFORD, VA	C / FFP	JMC ROCK ISLAND	May 2014	Jun 2017	38,428	142.66	Y		Jul 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)		2015	ORBITAL ATK1 / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Jul 2015	Jun 2017	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	Jul 2016	Jun 2018	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	Jul 2017	Aug 2018	30,800	146.75	Y		Jul 2016
3.1.1) CTG 40MM HEDP (B546)		2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2013	Mar 2015	56,554	41.42	Y		Nov 2012
3.1.1) CTG 40MM HEDP (B546)	✓	2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Jul 2014	Jun 2015	10,440	50.85	Y		Feb 2013
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576)		2014	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Sep 2014	Jun 2016	162,016	15.71	Y		Nov 2013
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576)	✓	2014	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Sep 2014	Jun 2016	26,016	15.72	Y		Nov 2013
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576)	✓	2015	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Jun 2016	Apr 2017	49,984	18.39	Y		Nov 2013
3.1.3) CTG, 40MM, BLANK, SAL 200 GRAMS BRASS (B650)		2012	MCALESTER AAP / MCALESTER, OK	MIPR	NO PCO	Oct 2013	Oct 2016	7,182	44.02	Y		Aug 2011
3.1.3) CTG, 40MM, BLANK, SAL 200 GRAMS BRASS (B650)		2013	MCALESTER AAP / MCALESTER, OK	MIPR	NO PCO	Oct 2013	Oct 2016	20,736	43.64	Y		Aug 2011

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date: May 2017**

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2014	MAST TECHNOLOGY. / INDEPENDENCE, MO	C / FFP	NSWC IHD	Sep 2014	Apr 2017	60,000	13.53	Y		Jan 2013
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2015	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	NSWC IHD	Sep 2015	Mar 2017	43,840	13.80	Y		Jan 2013
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2016	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	NSWC IHD	Sep 2016	Mar 2018	21,050	14.06	Y		Jan 2013
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2018	MAST TECHNOLOGY. / INDEPENDENCE, MO	C / FFP	NSWC IHD	Mar 2018	Mar 2019	20,800	14.66	Y		Jan 2013
5.1.2) CART., 20MM MK 244 ELC (AA61) <sup>(†)</sup>		2014	ORBITAL ATK / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND	Sep 2014	Mar 2017	621,619	30.89	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) <sup>(†)</sup>		2015	ORBITAL ATK / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND	Jul 2015	Nov 2016	1,024,208	31.36	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) <sup>(†)</sup>		2016 <sup>(1)</sup>	GD-OTS AND ORBITAL ATK / MARION, IL AND LAKE CITY, MO	C / FFP	JMC ROCK ISLAND	Jul 2016	Jul 2018	476,155	32.63	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) <sup>(†)</sup>		2017	GD-OTS AND ORBITAL ATK / MARION, IL AND LAKE CITY, MO	C / FFP	JMC ROCK ISLAND	Jun 2017	Nov 2018	591,953	32.31	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) <sup>(†)</sup>		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Jul 2019	599,150	32.79	Y		Dec 2012

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

<sup>(1)</sup> 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: FY 2018 Navy** **Date:** May 2017

**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 Millions, * = &lt; 500)</i>					Fiscal Year 2015													Fiscal Year 2016													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O 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			
5.1.2) CART., 20MM MK 244 ELC (AA61)																																	
Prior Years Deliveries: 228332																																	
	2	2014	NAVY	.622	.000	.622	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.622
	2	2015	NAVY	1.024	.000	1.024																										1.024	
	3	2016	NAVY	.476	.000	.476																										.476	
	3	2017	NAVY	.592	.000	.592																										.592	
	1	2018	NAVY	.599	.000	.599																										.599	

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date: May 2017**

**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 Millions, * = &lt; 500)</i>					Fiscal Year 2017													Fiscal Year 2018													BALANCE		
O C C #	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			
5.1.2) CART., 20MM MK 244 ELC (AA61)																																	
Prior Years Deliveries: 228332																																	
2	2014	NAVY		.622	.000	.622	-	-	-	-	-	.200	.207	.215																.000			
2	2015	NAVY		1.024	.000	1.024	-	.200	.200	.200	.200	.224																		.000			
3	2016	NAVY		.476	.000	.476	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.200	.200	.076	.000				
3	2017	NAVY		.592	.000	.592								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.592				
1	2018	NAVY		.599	.000	.599																			A -	-	-	-	.599				

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date:** May 2017

**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 Millions, * = &lt; 500)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
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 D U E A S O F 1 O C T	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			
5.1.2) CART., 20MM MK 244 ELC (AA61)																																	
Prior Years Deliveries: 228332																																	
	2	2014	NAVY	.622	.622	.000																								.000			
	2	2015	NAVY	1.024	1.024	.000																								.000			
	3	2016	NAVY	.476	.476	.000																								.000			
	3	2017	NAVY	.592	.000	.592	-	.250	.200	.142																				.000			
	1	2018	NAVY	.599	.000	.599	-	-	-	-	-	-	-	-	.200	.200	.199													.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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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Navy	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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 - TBD	70	840,000	1,700,000	6	6	16	22	6	6	21	27
2	ORBITAL ATK - LAKE CITY, MO	70	840,000	1,700,000	6	6	16	22	6	6	21	27
3	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

"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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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>											<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition					<b>Item Number / Title [DODIC]:</b> 2 / Naval Special Warfare				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>FY 2018 Base</b>		<b>FY 2018 OCO</b>		<b>FY 2018 Total</b>	
Procurement Quantity (Units in Each)				-		-		-		-		-		-	
Gross/Weapon System Cost (\$ in Millions)				11.455		8.432		3.767		3.907		13.789		17.696	
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Net Procurement (P-1) (\$ in Millions)				11.455		8.432		3.767		3.907		13.789		17.696	
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				<b>11.455</b>		<b>8.432</b>		<b>3.767</b>		<b>3.907</b>		<b>13.789</b>		<b>17.696</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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	-	-	0.000	-	-	0.000	-	-	0.086	-	-	0.091	-	-	0.177
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.086	-	-	0.091	-	-	0.177
<i>Subtotal: Hardware - AGNSW PE/QA SMCA Cost</i>																		
-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.086	-	-	0.091	-	-	0.177	
Hardware - NSW Hardware Cost																		
Recurring Cost																		
2.1.1) CTG., 40MM PRACTICE M781 f/ M203 Gren Launcher (B519) <sup>(f)</sup>	4.09	85,000	0.348	4.78	60,000	0.287	-	-	0.000	4.49	60,000	0.269	-	-	0.000	4.49	60,000	0.269
2.1.2) CTG., 40MM ILLUM, WHITE STAR CLUSTER M585 (B536) <sup>(f)</sup>	62.00	10,032	0.622	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.3) CTG 40MM PRACTICE M395A1 (B576) <sup>(f)</sup>	15.64	78,836	1.233	19.15	40,000	0.766	20.48	26,432	0.541	-	-	0.000	-	-	0.000	-	-	0.000
2.1.4) CTG., 40MM PRACTICE Mk281 Mod 0 (BA12) <sup>(f)</sup>	32.38	46,976	1.521	-	-	0.000	33.68	76,158	2.565	-	-	0.000	-	-	0.000	-	-	0.000
2.1.5) CTG., 40MM PRACTICE, DAY/	-	-	0.000	34.05	57,269	1.950	-	-	0.000	39.38	67,968	2.677	-	-	0.000	39.38	67,968	2.677

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition						<b>Item Number / Title [DODIC]:</b> 2 / Naval Special Warfare					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
NIGHT MARKER MK281 (BA21) <sup>(†)</sup>																		
2.1.6) CTG, 60 MM HE-PD M88 M935 (B643) <sup>(†)</sup>	500.00	816	0.408	442.76	11,709	5.184	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.7) CTG, 60MM ILLUMINATION (B647) <sup>(†)</sup>	-	-	0.000	-	-	0.000	588.87	1,024	0.603	-	-	0.000	-	-	0.000	-	-	0.000
2.1.8) CTG, 60 MM HE MAPAM, XM1061, W/FUZE M734A1 (BA29) <sup>(†)</sup>	1,536.75	1,660	2.551	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.9) CTG, MORTAR, 81MM HE M821A2 SERIES (CA61) <sup>(†) (2)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	1,363.86	3,000	4.092	1,363.86	3,000	4.092
2.1.10) CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE (CA63) <sup>(†) (3)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	736.17	1,000	0.736	736.17	1,000	0.736
2.1.11) ROCKET 66MM HE M72A7 W/GRAZE LAW (HA29) <sup>(†)</sup>	2,124.18	1,973	4.191	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.14) JAVELIN BLOCK 1 FGM148F (PMC1) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	192,000.00	44	8.448	192,000.00	44	8.448
2.1.15) JAVELIN COMPONENTS <sup>(4)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.422	-	-	0.422
<i>Subtotal: Recurring Cost</i>	-	-	10.874	-	-	8.187	-	-	3.709	-	-	2.946	-	-	13.698	-	-	16.644
<i>Subtotal: Hardware - NSW Hardware Cost</i>	-	-	10.874	-	-	8.187	-	-	3.709	-	-	2.946	-	-	13.698	-	-	16.644

<b>Hardware - AGNSW TRANSPORTATION CODE Cost</b>																		
<b>Recurring Cost</b>																		

3.1.1) AGNSW TAC CODE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.500
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.500

<i>Subtotal: Hardware - AGNSW TRANSPORTATION CODE Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.500
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<b>Support - (NS830) PRODUCTION ENGINEERING Cost</b>																		
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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition						<b>Item Number / Title [DODIC]:</b> 2 / Naval Special Warfare					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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) Production Engineering	-	-	0.581	-	-	0.245	-	-	0.058	-	-	0.375	-	-	0.000	-	-	0.375
<i>Subtotal: Support - (NS830) PRODUCTION ENGINEERING Cost</i>	-	-	<b>0.581</b>	-	-	<b>0.245</b>	-	-	<b>0.058</b>	-	-	<b>0.375</b>	-	-	<b>0.000</b>	-	-	<b>0.375</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>11.455</b>	-	-	<b>8.432</b>	-	-	<b>3.767</b>	-	-	<b>3.907</b>	-	-	<b>13.789</b>	-	-	<b>17.696</b>

**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: FY 2018 Navy								Date: May 2017				
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., 40MM PRACTICE M781 f/M203 Gren Launcher (B519)		2016	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2016	Apr 2017	60,000	4.78	Y		Oct 2015
2.1.1) 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
2.1.2) CTG., 40MM ILLUM, WHITE STAR CLUSTER M585 (B536)		2015	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Apr 2015	Apr 2016	10,032	61.97	Y		Dec 2013
2.1.3) 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
2.1.3) CTG 40MM PRACTICE M395A1 (B576)		2017	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2017	Aug 2018	26,432	20.48	Y		Dec 2016
2.1.4) CTG., 40MM PRACTICE Mk281 Mod 0 (BA12)		2015	RHEINMETALL / GERMANY	C / FFP	JMC ROCK ISLAND	Apr 2015	Oct 2016	46,976	32.38	Y		Dec 2013
2.1.4) CTG., 40MM PRACTICE Mk281 Mod 0 (BA12)		2017	RHEINMETALL / GERMANY	C / FFP	JMC ROCK ISLAND	Dec 2016	Jun 2018	76,158	33.68	Y		Dec 2013
2.1.5) 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
2.1.5) 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
2.1.6) CTG, 60 MM HE-PD M88 M935 (B643)		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2016	816	500.00	Y		Dec 2014
2.1.6) 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
2.1.6) 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
2.1.7) CTG, 60MM ILLUMINATION (B647)		2017	TBD / TBD	C / TBD	TBD	Sep 2017	Sep 2018	1,024	588.87	Y		Jan 2017
2.1.8) CTG, 60 MM HE MAPAM, XM1061, W/FUZE M734A1 (BA29)		2014	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	NSWC CRANE	Jun 2014	Dec 2015	260	1,576.92	Y		Dec 2011
2.1.9) 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		
2.1.10) 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		
2.1.11) ROCKET 66MM HE M72A7 W/GRAZE LAW (HA29)		2013	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	JMC ROCK ISLAND	Mar 2013	Mar 2015	973	1,224.05	Y		Oct 2011
2.1.11) ROCKET 66MM HE M72A7 W/GRAZE LAW (HA29)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2017	1,000	3,000.00	Y		Oct 2011

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<b>Exhibit P-5a, Procurement History and Planning: FY 2018 Navy</b>							<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1			<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition				<b>Item Number / Title [DODIC]:</b> 2 / Naval Special Warfare					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
2.1.14) JAVELIN BLOCK 1 FGM148F (PMC1)	✓	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-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	303.987	55.336	46.727	49.401	1.963	51.364	50.528	51.121	51.533	52.365	-	662.961
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	303.987	55.336	46.727	49.401	1.963	51.364	50.528	51.121	51.533	52.365	-	662.961
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>303.987</b>	<b>55.336</b>	<b>46.727</b>	<b>49.401</b>	<b>1.963</b>	<b>51.364</b>	<b>50.528</b>	<b>51.121</b>	<b>51.533</b>	<b>52.365</b>	<b>-</b>	<b>662.961</b>

*(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:**

Program provides 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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Navy	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	54.975	46.303	49.045	1.963	51.008	50.116	50.657	51.060
NR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.361	0.424	0.356	-	0.356	0.412	0.464	0.473
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>							
	<b>Total Obligation Authority</b>	<b>55.336</b>	<b>46.727</b>	<b>49.401</b>	<b>1.963</b>	<b>51.364</b>	<b>50.528</b>	<b>51.121</b>	<b>51.533</b>

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

**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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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			- / 219.936	- / 35.673	- / 28.509	- / 30.472	- / 0.000	- / 30.472
P-5	2 / Naval Special Warfare (NSW)	P-5a			- / 84.051	- / 19.663	- / 18.218	- / 18.929	- / 1.963	- / 20.892
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 303.987</b>	<b>- / 55.336</b>	<b>- / 46.727</b>	<b>- / 49.401</b>	<b>- / 1.963</b>	<b>- / 51.364</b>

\*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 2018 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 Product Improvement Programs to improve producibility of smoke grenades, renovation of grenade fuzes for fragmentation, and Production Engineering and Gauge requirements for Small Arms Ammunition, Grenades, and Mines.

FY 2018 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.

OCO:  
 FY 2018 OCO funding is required for reset of munitions expended by Naval Special Warfare (NSW) in combat and operations in support of Operation Inherent Resolve (OIR) and Operation Freedom's Sentinel (OFS). This funding supports the replenishment high use munitions including .50 caliber ammunition and .300 Winchester Magnum sniper ammunition.

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**Exhibit P-5, Cost Analysis: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo	<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	219.936	35.673	28.509	30.472	0.000	30.472
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	219.936	35.673	28.509	30.472	0.000	30.472
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>219.936</b>	<b>35.673</b>	<b>28.509</b>	<b>30.472</b>	<b>0.000</b>	<b>30.472</b>

*(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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Hardware - (AH100) PE/QA SMCA Cost</b>																		
Recurring Cost																		
1.1.1) PE/QA SMCA (1)	-	-	6.715	-	-	1.514	-	-	1.215	-	-	1.558	-	-	0.000	-	-	1.558
<i>Subtotal: Recurring Cost</i>	-	-	6.715	-	-	1.514	-	-	1.215	-	-	1.558	-	-	0.000	-	-	1.558
<i>Subtotal: Hardware - (AH100) PE/QA SMCA Cost</i>	-	-	6.715	-	-	1.514	-	-	1.215	-	-	1.558	-	-	0.000	-	-	1.558
<b>Hardware - (AH100) TRANSPORTATION ACCOUNT CODE (TAC) Cost</b>																		
Recurring Cost																		
2.1.1) TRANSPORTATION ACCOUNT CODE (TAC)	-	-	5.411	-	-	0.000	-	-	1.200	-	-	1.300	-	-	0.000	-	-	1.300
<i>Subtotal: Recurring Cost</i>	-	-	5.411	-	-	0.000	-	-	1.200	-	-	1.300	-	-	0.000	-	-	1.300
<i>Subtotal: Hardware - (AH100) TRANSPORTATION ACCOUNT CODE (TAC) Cost</i>	-	-	5.411	-	-	0.000	-	-	1.200	-	-	1.300	-	-	0.000	-	-	1.300
<b>Hardware - (AH100) .40 CAL CARTRIDGES Cost</b>																		
Recurring Cost																		
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW) <sup>(†)</sup>	0.29	2,093,400	0.615	0.30	280,800	0.084	0.32	100,000	0.032	0.32	200,000	0.064	-	-	0.000	0.32	200,000	0.064

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo						<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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) CARTRIDGE .40 CALS&W (DWGX) <sup>(f)</sup>	0.29	634,063	0.184	0.27	140,400	0.038	0.30	200,000	0.060	0.30	400,000	0.120	-	-	0.000	0.30	400,000	0.120
3.1.3) CARTRIDGE, .40 CALIBER, S&W FRANGIBLE, MK 326 MOD 0 (CWRD) <sup>(f)</sup>	-	-	0.000	0.42	785,129	0.329	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.799	-	-	0.451	-	-	0.092	-	-	0.184	-	-	0.000	-	-	0.184
<i>Subtotal: Hardware - (AH100) .40 CAL CARTRIDGES Cost</i>	-	-	0.799	-	-	0.451	-	-	0.092	-	-	0.184	-	-	0.000	-	-	0.184
Hardware - (AH100) 50 CAL CARTRIDGES Cost																		
Recurring Cost																		
4.1.1) .50 CAL BLANK (A598) <sup>(f)</sup>	1.41	1,676,758	2.366	1.09	245,200	0.268	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.2) CTG, .50 LINKED (A576) <sup>(f)</sup>	2.38	4,676,916	11.140	1.78	1,187,200	2.117	1.99	800,000	1.592	1.98	600,000	1.188	-	-	0.000	1.98	600,000	1.188
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) <sup>(f)</sup>	1.94	10,318,800	19.975	1.60	1,139,200	1.819	1.71	1,305,400	2.236	1.74	1,477,586	2.571	-	-	0.000	1.74	1,477,586	2.571
4.1.5) CTG, 50 CAL, LKD & TRACER (A557) <sup>(f)</sup>	1.86	24,768,514	46.114	1.64	4,968,176	8.153	1.75	4,096,000	7.185	1.79	3,854,190	6.899	-	-	0.000	1.79	3,854,190	6.899
<i>Subtotal: Recurring Cost</i>	-	-	85.580	-	-	12.357	-	-	11.013	-	-	10.658	-	-	0.000	-	-	10.658
<i>Subtotal: Hardware - (AH100) 50 CAL CARTRIDGES Cost</i>	-	-	85.580	-	-	12.357	-	-	11.013	-	-	10.658	-	-	0.000	-	-	10.658
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) <sup>(f)</sup>	0.26	50,062,299	12.908	0.21	14,093,646	2.925	0.24	8,200,000	1.968	0.24	8,472,000	2.033	-	-	0.000	0.24	8,472,000	2.033
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

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Exhibit P-5, Cost Analysis: FY 2018 Navy														Date: May 2017				
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
5.1.4) 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) <sup>(†)</sup>	-	-	0.000	-	-	0.000	1.24	254,000	0.315	1.26	319,000	0.402	-	-	0.000	1.26	319,000	0.402
<i>Subtotal: Recurring Cost</i>	-	-	30.110	-	-	2.925	-	-	2.283	-	-	2.435	-	-	0.000	-	-	2.435
<i>Subtotal: Hardware - (AH100) 5.56MM CARTRIDGES Cost</i>	-	-	<b>30.110</b>	-	-	<b>2.925</b>	-	-	<b>2.283</b>	-	-	<b>2.435</b>	-	-	<b>0.000</b>	-	-	<b>2.435</b>
Hardware - (AH100) 7.62MM CARTRIDGES Cost																		
Recurring Cost																		
6.1.1) CTG, 7.62MM (A257) <sup>(†)</sup>	0.50	2,097,000	1.058	0.44	462,000	0.201	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) <sup>(†)</sup>	1.10	1,572,460	1.723	0.55	157,320	0.086	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.3) CTG, 7.62MM, SRTA, BALL, LINKED M973 (AB60) <sup>(†)</sup>	1.86	4,300	0.008	1.91	601,530	1.150	1.79	200,000	0.357	1.82	200,000	0.364	-	-	0.000	1.82	200,000	0.364
6.1.4) CTG, 7.62MM, LKD, BALL AND TR (A131) <sup>(†)</sup>	0.96	27,769,277	26.733	0.47	7,654,400	3.579	0.54	6,500,000	3.510	0.54	6,500,000	3.510	-	-	0.000	0.54	6,500,000	3.510
6.1.5) CTG, 7.62MM, BALL, M80, LKD (A143) <sup>(†)</sup>	0.66	7,889,846	5.176	0.45	1,168,000	0.523	0.53	850,000	0.451	0.52	900,000	0.468	-	-	0.000	0.52	900,000	0.468
6.1.6) CTG, 7.62MM, LKD (A165) <sup>(†)</sup>	0.64	27,103,702	17.429	0.45	4,693,500	2.121	0.48	2,000,000	0.960	0.48	2,500,000	1.200	-	-	0.000	0.48	2,500,000	1.200
<i>Subtotal: Recurring Cost</i>	-	-	52.127	-	-	7.660	-	-	5.446	-	-	5.710	-	-	0.000	-	-	5.710
<i>Subtotal: Hardware - (AH100) 7.62MM CARTRIDGES Cost</i>	-	-	<b>52.127</b>	-	-	<b>7.660</b>	-	-	<b>5.446</b>	-	-	<b>5.710</b>	-	-	<b>0.000</b>	-	-	<b>5.710</b>
Hardware - (AH100) 38CAL CARTRIDGES Cost																		
Recurring Cost																		
7.1.1) CTG, .38 BLANK (A403) <sup>(†)</sup>	0.27	52,000	0.014	0.28	10,750	0.003	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.014	-	-	0.003	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - (AH100) 38CAL CARTRIDGES Cost</i>	-	-	<b>0.014</b>	-	-	<b>0.003</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
Hardware - (AH100) 45 CAL CARTRIDGES Cost																		

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>													<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1							<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo						<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Recurring Cost</b>																		
8.1.1) CTG, .45 CAL BALL (A475)	0.27	384,000	0.102	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.102	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - (AH100) 45 CAL CARTRIDGES Cost</i>	-	-	0.102	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Hardware - (AH100) 9MM CARTRIDGES Cost</b>																		
<b>Recurring Cost</b>																		
9.1.1) CTG, 9MM, BALL (A363) <sup>(†)</sup>	0.18	69,045,648	12.678	0.17	12,748,000	2.198	0.16	9,000,000	1.440	0.16	11,800,000	1.888	-	-	0.000	0.16	11,800,000	1.888
9.1.2) CTG, 9MM, FRANGIBLE (AA16) <sup>(†)</sup>	0.28	1,037,200	0.290	0.31	2,648,285	0.821	0.31	2,500,000	0.775	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	-	-	0.000	-	-	0.000	-	-	0.000
9.1.4) (AB14) CTG, 9MM, FX, MARKING, RED (AB14) <sup>(†)</sup>	0.54	3,408,000	1.851	0.57	1,070,000	0.615	0.61	650,000	0.397	0.63	800,000	0.504	-	-	0.000	0.63	800,000	0.504
<i>Subtotal: Recurring Cost</i>	-	-	15.785	-	-	3.634	-	-	2.612	-	-	3.192	-	-	0.000	-	-	3.192
<i>Subtotal: Hardware - (AH100) 9MM CARTRIDGES Cost</i>	-	-	15.785	-	-	3.634	-	-	2.612	-	-	3.192	-	-	0.000	-	-	3.192
<b>Hardware - (AH100) GRENADES Cost</b>																		
<b>Recurring Cost</b>																		
10.1.1) FUZE, DELAY M228 (G878) <sup>(†)</sup>	5.89	27,486	0.162	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
10.1.2) GRENADE, VEHICLE LAUNCHED I/R/S (GG42) <sup>(†)</sup>	790.04	281	0.222	213.07	7,420	1.581	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
10.1.3) GRENADE, HND, SMK, GREEN (G940) <sup>(†)</sup>	34.52	20,048	0.692	32.00	5,000	0.160	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
10.1.4) GRENADE, HND, SMK, VIOLET (G955)	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
10.1.5) GRENADE, HND, SMK, YELLOW (G945) <sup>(†)</sup>	35.16	14,646	0.515	32.00	5,000	0.160	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo	<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems
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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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
10.1.6 GRENADE, HND, SMK, WHITE (G982) <sup>(†)</sup>	29.30	10,000	0.293	32.00	5,000	0.160	-	-	0.000	31.00	10,000	0.310	-	-	0.000	31.00	10,000	0.310
10.1.7 GRENADE, HND, SMK, RED (G950) <sup>(†)</sup>	-	-	0.000	-	-	0.000	54.00	10,000	0.540	-	-	0.000	-	-	0.000	-	-	0.000
10.1.8 GRENADE, HAND, FRAG, DELAY, M67 (G881) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	37.15	30,000	1.115	-	-	0.000	37.15	30,000	1.115
<i>Subtotal: Recurring Cost</i>	-	-	1.885	-	-	2.061	-	-	0.540	-	-	1.425	-	-	0.000	-	-	1.425
<i>Subtotal: Hardware - (AH100) GRENADES Cost</i>	-	-	1.885	-	-	2.061	-	-	0.540	-	-	1.425	-	-	0.000	-	-	1.425
<b>Hardware - (AH100) MINES Cost</b>																		
Recurring Cost																		
11.1.1 RIOT CNTRL, CS (K765) <sup>(†)</sup>	0.40	22,280	0.009	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.009	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - (AH100) MINES Cost</i>	-	-	0.009	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Hardware - (AH100) SHOTGUN CARTRIDGES Cost</b>																		
Recurring Cost																		
12.1.1 CTG, 12 GA NO. 00 (A011) <sup>(†)</sup>	0.54	1,248,920	0.672	0.55	823,680	0.454	0.52	750,000	0.390	0.53	800,000	0.424	-	-	0.000	0.53	800,000	0.424
12.1.2 CTG, 12 GA, FRANGIBLE (AA86) <sup>(†)</sup>	1.09	1,244,770	1.357	0.65	998,400	0.649	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	2.029	-	-	1.103	-	-	0.390	-	-	0.424	-	-	0.000	-	-	0.424
<i>Subtotal: Hardware - (AH100) SHOTGUN CARTRIDGES Cost</i>	-	-	2.029	-	-	1.103	-	-	0.390	-	-	0.424	-	-	0.000	-	-	0.424
<b>Hardware - (AH350) MATCH AMMO Cost</b>																		
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

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**Exhibit P-5, Cost Analysis: FY 2018 Navy** **Date:** May 2017

**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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
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
<i>Subtotal: Recurring Cost</i>	-	-	0.481	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - (AH350) MATCH AMMO Cost</i>	-	-	0.481	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Hardware - (AH850) PRODUCT IMPROVEMENT Cost</b>																		
<i>Recurring Cost</i>																		
14.1.1) PRODUCT IMPROVEMENT (2)	-	-	0.569	-	-	0.486	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.569	-	-	0.486	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - (AH850) PRODUCT IMPROVEMENT Cost</i>	-	-	0.569	-	-	0.486	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Hardware - (AH893) RENOVATION COMPONENTS Cost</b>																		
<i>Recurring Cost</i>																		
15.1.1) RENOVATION COMPONENTS (3)	-	-	1.517	-	-	0.722	-	-	0.638	-	-	0.459	-	-	0.000	-	-	0.459
<i>Subtotal: Recurring Cost</i>	-	-	1.517	-	-	0.722	-	-	0.638	-	-	0.459	-	-	0.000	-	-	0.459
<i>Subtotal: Hardware - (AH893) RENOVATION COMPONENTS Cost</i>	-	-	1.517	-	-	0.722	-	-	0.638	-	-	0.459	-	-	0.000	-	-	0.459
<b>Hardware - (AH894) GAUGE REQUIREMENTS Cost</b>																		
<i>Recurring Cost</i>																		
16.1.1) GAUGE REQUIREMENTS (4)	-	-	0.040	-	-	0.036	-	-	0.020	-	-	0.020	-	-	0.000	-	-	0.020
<i>Subtotal: Recurring Cost</i>	-	-	0.040	-	-	0.036	-	-	0.020	-	-	0.020	-	-	0.000	-	-	0.020
<i>Subtotal: Hardware - (AH894) GAUGE REQUIREMENTS Cost</i>	-	-	0.040	-	-	0.036	-	-	0.020	-	-	0.020	-	-	0.000	-	-	0.020
<b>Hardware - (AH895) NON-STANDARD Cost</b>																		
<i>Recurring Cost</i>																		
17.1.1) NON-STANDARD (5)	-	-	0.450	-	-	0.347	-	-	0.600	-	-	0.608	-	-	0.000	-	-	0.608
<i>Subtotal: Recurring Cost</i>	-	-	0.450	-	-	0.347	-	-	0.600	-	-	0.608	-	-	0.000	-	-	0.608
<i>Subtotal: Hardware - (AH895) NON-STANDARD Cost</i>	-	-	0.450	-	-	0.347	-	-	0.600	-	-	0.608	-	-	0.000	-	-	0.608

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo						<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - (AH830) PRODUCTION ENGINEERING Cost																		
18.1) PRODUCTION ENGINEERING <sup>(6)</sup>	-	-	13.480	-	-	2.374	-	-	2.460	-	-	2.499	-	-	0.000	-	-	2.499
<i>Subtotal: Support - (AH830) PRODUCTION ENGINEERING Cost</i>	-	-	<b>13.480</b>	-	-	<b>2.374</b>	-	-	<b>2.460</b>	-	-	<b>2.499</b>	-	-	<b>0.000</b>	-	-	<b>2.499</b>
Support - Prior Year Funding Cost																		
19.1) Prior Year Funding	-	-	2.833	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support - Prior Year Funding Cost</i>	-	-	<b>2.833</b>	-	-	<b>0.000</b>												
<b>Gross/Weapon System Cost</b>	-	-	<b>219.936</b>	-	-	<b>35.673</b>	-	-	<b>28.509</b>	-	-	<b>30.472</b>	-	-	<b>0.000</b>	-	-	<b>30.472</b>

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

**Footnotes:**

- (1) [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.
- (2) [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.
- (3) [P5 / (AH893) RENOVATION COMPONENTS]: Provides for renovation components used to upgrade unserviceable rounds to ready-for-issue condition.
- (4) [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.
- (5) [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.
- (6) [P5 / (AH830) PRODUCTION ENGINEERING]: Provides for production engineering services to support new acquisition and in production ammunition.

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
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)		2016	FEDERAL CARTRIDGE / MINNESOTA...	C / FFP	NSWC CRANE	Jul 2016	Nov 2017	280,800	0.30	Y		Aug 2012
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW)		2017	FEDERAL CARTRIDGE / MINNESOTA...	C / FFP	NSWC CRANE	Jul 2017	Aug 2018	100,000	0.32	Y		Aug 2012
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	N	Apr 2017	Oct 2017
3.1.2) CARTRIDGE .40 CALS&W (DWGX)		2016	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Jul 2016	Nov 2016	140,400	0.27	Y		Aug 2012
3.1.2) CARTRIDGE .40 CALS&W (DWGX)		2017	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Jul 2017	Sep 2018	200,000	0.30	Y		Aug 2012
3.1.2) CARTRIDGE .40 CALS&W (DWGX)		2018	TBD / TBD	C / FFP	NSWC CRANE	Mar 2018	Apr 2019	400,000	0.30	N	Apr 2017	Oct 2017
3.1.3) CARTRIDGE, .40 CALIBER, S&W FRANGIBLE, MK 326 MOD 0 (CWRD)		2016	OLIN CORP / ILLINOIS	C / FFP	NSWC CRANE	Sep 2016	Jan 2017	785,129	0.42	Y		Oct 2010
4.1.1) .50 CAL BLANK (A598)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2015	May 2017	250,000	1.32	Y		Oct 2011
4.1.1) .50 CAL BLANK (A598)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2017	245,200	1.09	Y		Oct 2011
4.1.2) CTG, .50 LINKED (A576)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2015	Apr 2017	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	May 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	Apr 2018	800,000	1.99	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	N	Apr 2017	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	Apr 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	N	Apr 2017	Oct 2017
4.1.5) CTG, 50 CAL, LKD & TRACER (A557)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2015	Apr 2017	5,678,286	1.75	Y		Oct 2011
4.1.5) CTG, 50 CAL, LKD & TRACER (A557)	✓	2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Apr 2017	355,428	1.75	Y		Oct 2011
4.1.5) CTG, 50 CAL, LKD & TRACER (A557)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	May 2018	4,382,200	1.64	Y		Oct 2011
4.1.5) CTG, 50 CAL, LKD & TRACER (A557)	✓	2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	May 2018	585,976	1.64	Y		Oct 2011
4.1.5) CTG, 50 CAL, LKD & TRACER (A557)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	Jul 2018	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	N	Apr 2017	Oct 2017

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0335 / Small Arms & Lndg Party Ammo					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) CTG, 5.56MM M855 (A059)		2016	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	11,679,360	0.21	Y		Oct 2011
5.1.2) CTG, 5.56MM M855 (A059)	✓	2016	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	2,414,286	0.21	Y		Oct 2011
5.1.2) CTG, 5.56MM M855 (A059)		2017	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jul 2017	Feb 2019	8,200,000	0.24	Y		Oct 2011
5.1.2) CTG, 5.56MM M855 (A059)		2018	TBD / TBD	C / FFP	JMC	Mar 2018	Apr 2019	8,472,000	0.24	N	Apr 2017	Oct 2017
5.1.5) CTG, 5.56MM, SRTR AMMO (AB67)		2017	GDOTS CANADA / CANADA	SS / FFP	JMC ROCK ISLAND	Jul 2017	Jul 2018	254,000	1.24	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	319,000	1.26	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	350,000	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	N	Apr 2017	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, SRTA, 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, SRTA, BALL, LINKED M973 (AB60)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Jul 2017	Jul 2018	200,000	1.79	Y		Oct 2016
6.1.3) CTG, 7.62MM, SRTA, BALL, LINKED M973 (AB60)		2018	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2018	Mar 2019	200,000	1.82	Y		Oct 2016
6.1.4) 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	6,500,000	0.54	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	N	Apr 2017	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	850,000	0.53	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	N	Apr 2017	Oct 2013
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	N	Apr 2017	Oct 2017
7.1.1) CTG, .38 BLANK (A403)		2016	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Feb 2016	Jul 2017	10,750	0.28	Y		Oct 2015

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0335 / Small Arms & Lndg Party Ammo					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
9.1.1) CTG, 9MM, BALL (A363)		2015	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2015	Sep 2016	10,930,564	0.14	Y		Oct 2013
9.1.1) CTG, 9MM, BALL (A363)	✓	2015	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Jan 2016	Jun 2017	3,266,000	0.14	Y		Oct 2013
9.1.1) CTG, 9MM, BALL (A363)		2016	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Feb 2016	May 2017	12,748,000	0.17	Y		Oct 2015
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
9.1.2) 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
9.1.4) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)		2016	ULTIMATE TRAINING MUNITIONS / CANADA	SS / FFP	ACC-PICATINNY, NJ	Jul 2016	Sep 2017	1,070,000	0.57	Y		Oct 2015
9.1.4) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)		2017	TBD / TBD	SS / FFP	ACC-PICATINNY, NJ	Jul 2017	Mar 2018	650,000	0.61	Y		Oct 2015
9.1.4) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)		2018	TBD / TBD	TBD	TBD	Mar 2018	Oct 2018	800,000	0.63	N	Apr 2017	Oct 2017
10.1.1) FUZE, DELAY M228 (G878)		2015	MARTIN ELECTRONICS, INC. / PERRY, FL	C / FFP	JMC ROCK ISLAND	Oct 2015	Apr 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
10.1.3) GRENADE, HND, SMK, GREEN (G940)		2015	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP QUANTICO	May 2015	Apr 2017	10,000	31.20	Y		Oct 2013
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
10.1.5) GRENADE, HND, SMK, YELLOW (G945)		2015	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP QUANTICO	May 2015	Apr 2017	10,000	33.10	Y		Oct 2012
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)		2015	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP QUANTICO	Jul 2015	Dec 2017	10,000	29.30	Y		Jun 2009
10.1.6) GRENADE, HND, SMK, WHITE (G982)		2016	RHEINMETALL / GERMANY	C / TBD	** NO PCO **	Oct 2015	Oct 2016	5,000	32.00	N		
10.1.7) GRENADE, HND, SMK, RED (G950)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	MIPR	NO PCO	Jul 2017	Jan 2019	10,000	54.00	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	N	Apr 2017	Oct 2017
11.1.1) RIOT CNTRL, CS (K765)		2015	JMC ROCK ISLAND / ROCK ISLAND, IL	C / FFP	JMC ROCK ISLAND	May 2015	Jan 2017	15,780	0.40	Y		Oct 2014

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo	<b>Item Number / Title [DODIC]:</b> 1 / Integrated Warfare Systems
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
12.1.1) CTG, 12 GA NO. 00 (A011)		2016	OLIN CORP / ILLINOIS.	C / FFP	JMC ROCK ISLAND	Mar 2016	Apr 2017	823,680	0.55	Y		Oct 2013
12.1.1) CTG, 12 GA NO. 00 (A011)		2017	OLIN CORP / ILLINOIS.	C / FFP	JMC ROCK ISLAND	Oct 2016	Nov 2017	750,000	0.52	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	N	Apr 2017	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

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>											<b>Date:</b> May 2017						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo					<b>Item Number / Title [DODIC]:</b> 2 / Naval Special Warfare (NSW)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :											<b>MDAP/MAIS Code:</b>						
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>FY 2018 Base</b>		<b>FY 2018 OCO</b>		<b>FY 2018 Total</b>			
Procurement Quantity (Units in Each)				-		-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				84.051		19.663		18.218		18.929		1.963		20.892			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				84.051		19.663		18.218		18.929		1.963		20.892			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
<b>Total Obligation Authority (\$ in Millions)</b>				<b>84.051</b>		<b>19.663</b>		<b>18.218</b>		<b>18.929</b>		<b>1.963</b>		<b>20.892</b>			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>Hardware - (AHNSW) SMCA Cost</b>																		
Recurring Cost																		
1.1.1) (AHNSW) SMCA	-	-	0.000	-	-	0.735	-	-	0.708	-	-	1.108	-	-	0.000	-	-	1.108
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.735	-	-	0.708	-	-	1.108	-	-	0.000	-	-	1.108
<i>Subtotal: Hardware - (AHNSW) SMCA Cost</i>	-	-	0.000	-	-	0.735	-	-	0.708	-	-	1.108	-	-	0.000	-	-	1.108
<b>Hardware - (AHNSW) GRENADES Cost</b>																		
Recurring Cost																		
2.1.1) GRENADE,HAND,SMOKE GREEN (G940) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	54.11	14,992	0.811	-	-	0.000	54.11	14,992	0.811
2.1.2) GRENADE, 66MM SMOKE SCREENING (GG24) <sup>(†)</sup>	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) <sup>(†)</sup>	9.30	23,660	0.220	-	-	0.000	12.01	20,360	0.245	9.64	20,360	0.196	-	-	0.000	9.64	20,360	0.196
2.1.4) GRENADE, VEHICLE LAUNCHED IR/S (GG42) <sup>(†)</sup>	-	-	0.000	-	-	0.000	253.80	2,004	0.509	-	-	0.000	-	-	0.000	-	-	0.000
2.1.5) GRENADE, HAND, FRAG (G881) <sup>(†)</sup>	36.33	6,000	0.218	-	-	0.000	-	-	0.000	38.82	6,000	0.233	-	-	0.000	38.82	6,000	0.233

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**Exhibit P-5, Cost Analysis: FY 2018 Navy** **Date:** May 2017

**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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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) <sup>(†)</sup>	50.47	10,700	0.540	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
2.1.7) GRENADE, HAND, SMOKE, RED (G950)	41.77	35,000	1.462	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	2.910	-	-	0.000	-	-	0.754	-	-	1.240	-	-	0.000	-	-	1.240
<i>Subtotal: Hardware - (AHNSW) GRENADES Cost</i>	-	-	2.910	-	-	0.000	-	-	0.754	-	-	1.240	-	-	0.000	-	-	1.240
<b>Hardware - (AHNSW) 9MM CARTRIDGES Cost</b>																		
<b>Recurring Cost</b>																		
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14) <sup>(†)</sup>	0.56	1,089,285	0.610	0.57	1,056,140	0.602	0.62	990,064	0.614	0.63	920,634	0.580	-	-	0.000	0.63	920,634	0.580
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13) <sup>(†)</sup>	0.56	1,089,285	0.610	0.59	1,000,000	0.590	0.60	1,003,000	0.602	0.58	1,000,000	0.580	-	-	0.000	0.58	1,000,000	0.580
3.1.3) CTG, 9MM BALL (A363) <sup>(†)</sup>	0.17	44,660,027	7.655	0.17	6,564,705	1.116	0.16	6,141,168	0.983	0.18	6,000,000	1.080	-	-	0.000	0.18	6,000,000	1.080
3.1.4) CTG, 9MM REDUCED RICOCHETTE, LOW PEN (AA16) <sup>(†)</sup>	0.47	500,000	0.235	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	9.110	-	-	2.308	-	-	2.199	-	-	2.240	-	-	0.000	-	-	2.240
<i>Subtotal: Hardware - (AHNSW) 9MM CARTRIDGES Cost</i>	-	-	9.110	-	-	2.308	-	-	2.199	-	-	2.240	-	-	0.000	-	-	2.240
<b>Hardware - (AHNSW) 7.62MM CARTRIDGES Cost</b>																		
<b>Recurring Cost</b>																		
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37) <sup>(†)</sup>	0.86	4,000,000	3.420	0.89	2,497,042	2.222	0.88	2,388,204	2.102	2.17	1,200,000	2.604	-	-	0.000	2.17	1,200,000	2.604
4.1.2) CTG, 7.62MM, M993 AP, W/M62 Std Tracer (AA36) <sup>(†)</sup>	2.57	180,000	0.463	0.00	700,500	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
4.1.3) CTG, 7.62MM BLANK, LINKED (A111) <sup>(†)</sup>	0.54	4,800,000	2.608	0.39	3,116,215	1.215	0.39	4,011,897	1.565	0.39	2,372,800	0.925	-	-	0.000	0.39	2,372,800	0.925

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo						<b>Item Number / Title [DODIC]:</b> 2 / Naval Special Warfare (NSW)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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) <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.53	991,000	0.525	-	-	0.000	-	-	0.000	-	-	0.000
4.1.5) CTG, 7.62MM LINKED 9:1 DIM TRACER F/MK 44 (A257) <sup>(†)</sup>	0.52	8,716,641	4.531	0.44	522,727	0.230	0.48	2,127,083	1.023	-	-	0.000	-	-	0.000	-	-	0.000
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) <sup>(†)</sup>	0.62	32,557,447	20.042	0.47	6,682,978	3.141	0.54	4,557,000	2.461	0.54	3,700,000	1.998	-	-	0.000	0.54	3,700,000	1.998
<i>Subtotal: Recurring Cost</i>	-	-	31.065	-	-	6.808	-	-	7.676	-	-	5.527	-	-	0.000	-	-	5.527
<i>Subtotal: Hardware - (AHNSW) 7.62MM CARTRIDGES Cost</i>	-	-	31.065	-	-	6.808	-	-	7.676	-	-	5.527	-	-	0.000	-	-	5.527
<b>Hardware - (AHNSW) 5.56MM CARTRIDGES Cost</b>																		
<b>Recurring Cost</b>																		
5.1.2) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40) <sup>(†)</sup>	0.38	1,569,631	0.599	-	-	0.000	0.67	400,160	0.268	0.67	400,160	0.268	-	-	0.000	0.67	400,160	0.268
5.1.3) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49) <sup>(†)</sup>	0.59	946,000	0.554	0.00	670,760	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.4) CTG, 5.56MM CTG BALL B855 LKD F/SAW (A062) <sup>(†)</sup>	0.32	720,000	0.228	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.5) CTG, 5.56MM, LINKED (A075) <sup>(†)</sup>	0.45	3,300,000	1.485	0.22	1,500,800	0.325	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.6) CTG, 5.56MM BLANK (TRAINING ITEM) (A080) <sup>(†)</sup>	0.29	3,182,890	0.917	0.15	3,762,000	0.571	-	-	0.000	0.14	2,001,840	0.280	-	-	0.000	0.14	2,001,840	0.280
5.1.7) CTG, 5.56MM 77 GRAIN, MK 262 MOD 0/1, LONG (AA53) <sup>(†)</sup>	0.65	1,977,076	1.285	-	-	0.000	-	-	0.000	0.80	500,200	0.398	-	-	0.000	0.80	500,200	0.398
5.1.8) CTG, 5.56MM MARKING, RED (AA12)	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1						<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo						<b>Item Number / Title [DODIC]:</b> 2 / Naval Special Warfare (NSW)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
5.1.9) CTG, 9/5.56MM MARKING, BLUE (AA21)	-	-	0.001	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
5.1.10) CTG, 5.56MM LINKED (A064) <sup>(†)</sup>	0.54	5,240,000	2.807	0.32	208,000	0.067	0.32	2,360,000	0.755	0.33	1,000,000	0.330	-	-	0.000	0.33	1,000,000	0.330
5.1.11) CTG, 5.56MM SHORT RANGE TRAINING (AB67) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	1.36	403,200	0.548	-	-	0.000	1.36	403,200	0.548
<i>Subtotal: Recurring Cost</i>	-	-	7.877	-	-	0.963	-	-	1.023	-	-	1.824	-	-	0.000	-	-	1.824
<i>Subtotal: Hardware - (AHNSW) 5.56MM CARTRIDGES Cost</i>	-	-	7.877	-	-	0.963	-	-	1.023	-	-	1.824	-	-	0.000	-	-	1.824

Hardware - (AHNSW) .50 CAL CARTRIDGES Cost

Recurring Cost																		
Cost Elements	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64) <sup>(†)</sup>	4.06	800,000	3.248	4.16	600,000	2.496	4.25	400,000	1.700	4.33	400,000	1.732	-	-	0.000	4.33	400,000	1.732
6.1.2) CTG, CAL .50 LINKED BALL (NO TRACER) (A555) <sup>(†)</sup>	2.49	1,503,218	3.743	1.60	1,012,500	1.620	-	-	0.000	1.74	462,068	0.804	-	-	0.000	1.74	462,068	0.804
6.1.3) CTG, CAL .50 LINKED, BALL/ TRACER (A557) <sup>(†)</sup>	1.83	1,215,846	2.225	1.64	903,048	1.481	-	-	0.000	1.79	586,592	1.050	2.37	400,000	0.948	2.03	986,592	1.998
6.1.4) CTG, CAL .50 APL MK 211 MIULTI PURPOSE (A606) <sup>(†)</sup>	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) <sup>(†)</sup>	1.95	6,735,102	13.131	1.78	482,584	0.859	1.99	922,302	1.835	1.98	755,050	1.495	2.23	396,000	0.883	2.07	1,151,050	2.378
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598) <sup>(†)</sup>	1.21	3,372,473	4.064	1.20	1,109,277	1.331	1.33	1,003,218	1.334	1.34	900,000	1.206	-	-	0.000	1.34	900,000	1.206
<i>Subtotal: Recurring Cost</i>	-	-	27.141	-	-	7.787	-	-	4.869	-	-	6.287	-	-	1.831	-	-	8.118
<i>Subtotal: Hardware - (AHNSW) .50 CAL CARTRIDGES Cost</i>	-	-	27.141	-	-	7.787	-	-	4.869	-	-	6.287	-	-	1.831	-	-	8.118

Hardware - (AHNSW) SHOTGUN CARTRIDGES Cost

Recurring Cost																		

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**Exhibit P-5, Cost Analysis: FY 2018 Navy** **Date:** May 2017

**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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.001</i>	-	-	<i>0.000</i>												
<i>Subtotal: Hardware - (AHNSW) SHOTGUN CARTRIDGES Cost</i>	-	-	<i>0.001</i>	-	-	<i>0.000</i>												
<b>Hardware - (AHNSW) MATCH AMMO Cost</b>																		
<i>Recurring Cost</i>																		
8.1.1) CTG, CAL .300 MATCH (A191) <sup>(†)</sup>	1.25	720,000	0.900	1.07	144,363	0.154	-	-	0.000	-	-	0.000	1.31	100,800	0.132	1.31	100,800	0.132
8.1.2) CTG, CAL 45 MATCH (A483) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	0.34	200,000	0.068	-	-	0.000	0.34	200,000	0.068
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.900</i>	-	-	<i>0.154</i>	-	-	<i>0.000</i>	-	-	<i>0.068</i>	-	-	<i>0.132</i>	-	-	<i>0.200</i>
<i>Subtotal: Hardware - (AHNSW) MATCH AMMO Cost</i>	-	-	<i>0.900</i>	-	-	<i>0.154</i>	-	-	<i>0.000</i>	-	-	<i>0.068</i>	-	-	<i>0.132</i>	-	-	<i>0.200</i>
<b>Hardware - (AHNSW) TRANSPORTATION ACCOUNT CODE (TAC) Cost</b>																		
<i>Recurring Cost</i>																		
9.1.1) NSW TRANSPORTATION ACCOUNT CODE (TAC)	-	-	0.720	-	-	0.250	-	-	0.300	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.720</i>	-	-	<i>0.250</i>	-	-	<i>0.300</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Hardware - (AHNSW) TRANSPORTATION ACCOUNT CODE (TAC) Cost</i>	-	-	<i>0.720</i>	-	-	<i>0.250</i>	-	-	<i>0.300</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Support - (NS830) PRODUCTION ENGINEERING Cost</b>																		
10.1) Production Engineering	-	-	4.327	-	-	0.658	-	-	0.689	-	-	0.635	-	-	0.000	-	-	0.635
<i>Subtotal: Support - (NS830) PRODUCTION ENGINEERING Cost</i>	-	-	<i>4.327</i>	-	-	<i>0.658</i>	-	-	<i>0.689</i>	-	-	<i>0.635</i>	-	-	<i>0.000</i>	-	-	<i>0.635</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>84.051</b>	-	-	<b>19.663</b>	-	-	<b>18.218</b>	-	-	<b>18.929</b>	-	-	<b>1.963</b>	-	-	<b>20.892</b>

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
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
2.1.2) GRENADE, 66MM SMOKE SCREENING (GG24)		2014	RHEINMETALL / GERMANY	C / FFP	JMC ROCK ISLAND	Mar 2014	Sep 2015	2,000	235.00	Y		Mar 2013
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	TBD / TBD	C / TBD	JMC ROCK ISLAND	Oct 2016	Apr 2018	20,360	12.01	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	TBD / TBD	C / TBD	** NO PCO **	Dec 2016	Dec 2017	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	CANADIAN COMMERCIAL CORPORATION / OTTAWA, CANADA	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2016	1,056,140	0.57	N	Aug 2015	Oct 2015
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Oct 2017	Apr 2018	990,064	0.62	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
3.1.2) 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	TBD / TBD	C / FFP	JMC ROCK ISLAND	Oct 2016	Oct 2016	1,003,000	0.60	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
3.1.3) 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
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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0335 / Small Arms & Lndg Party Ammo					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
3.1.3) CTG, 9MM BALL (A363)		2017	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2017	Sep 2017	6,141,168	0.16	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	2,388,204	0.88	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	4,011,897	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	991,000	0.53	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
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	2,127,083	0.48	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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
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
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	4,557,000	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)		2017	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Dec 2016	Nov 2017	400,160	0.67	N	Aug 2015	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
5.1.5) 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
5.1.5) 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
5.1.6) 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
5.1.6) 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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
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
5.1.7) 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
5.1.7) 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
5.1.7) 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
5.1.10) CTG, 5.56MM LINKED (A064)		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2014	Aug 2014	3,000,000	0.54	Y		Oct 2011
5.1.10) 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
5.1.10) 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
5.1.10) 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
5.1.11) 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	400,000	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
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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy								Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0335 / Small Arms & Lndg Party Ammo					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
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	922,302	1.99	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	1,003,218	1.33	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
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

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<b>Exhibit P-5a, Procurement History and Planning:</b> FY 2018 Navy	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 01 / 1	<b>P-1 Line Item Number / Title:</b> 0335 / Small Arms & Lndg Party Ammo	<b>Item Number / Title [DODIC]:</b> 2 / Naval Special Warfare (NSW)
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
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

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**Exhibit P-40, Budget Line Item Justification: FY 2018 Navy** **Date: May 2017**

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0340 / Pyrotechnic and Demolition
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	72.955	12.798	10.928	9.495	0.765	10.260	11.180	10.917	11.141	11.363	-	151.542
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	72.955	12.798	10.928	9.495	0.765	10.260	11.180	10.917	11.141	11.363	-	151.542
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>72.955</b>	<b>12.798</b>	<b>10.928</b>	<b>9.495</b>	<b>0.765</b>	<b>10.260</b>	<b>11.180</b>	<b>10.917</b>	<b>11.141</b>	<b>11.363</b>	<b>-</b>	<b>151.542</b>

*(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:**

Program provides 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 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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Navy	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.712	10.834	9.405	0.765	10.170	11.086	10.829	11.050
NR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.086	0.094	0.090	-	0.090	0.094	0.088	0.091
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>12.798</b>	<b>10.928</b>	<b>9.495</b>	<b>0.765</b>	<b>10.260</b>	<b>11.180</b>	<b>10.917</b>	<b>11.141</b>

**Justification:**

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		<b>P-1 Line Item Number / Title:</b> 0340 / Pyrotechnic and Demolition
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>FY 2018 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.</p> <p>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.</p> <p>Baseline funding also provides Product Improvement Programs to resolve obsolescence issues in cartridge actuated devices. Baseline program funds Renovation of firing devices and supply components for demolition items, and Production Engineering and Gauge requirements for pyrotechnics and demolition materials.</p> <p>FY 2018 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.</p> <p>OCO: FY 2018 Overseas Contingency Operations (OCO) funding is required to replenish munitions that were expended in combat and operations in theater by Naval Special Warfare (NSW) in support of Operation Inherent Resolve (OIR), Operation Freedom's Sentinel (OFS) and in the fight to defeat ISIS. FY 2018 OCO funding procures NSW explosive sheet charges and low-hazard flex linear charges, all of which are used to assemble a variety of explosive breaching charges, and are high use items.</p>		

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	<b>P-1 Line Item Number / Title:</b> 0400 / Ammunition less than \$5 million
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	72.792	9.143	6.395	3.080	0.866	3.946	3.130	3.158	3.226	3.289	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	72.792	9.143	6.395	3.080	0.866	3.946	3.130	3.158	3.226	3.289	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>72.792</b>	<b>9.143</b>	<b>6.395</b>	<b>3.080</b>	<b>0.866</b>	<b>3.946</b>	<b>3.130</b>	<b>3.158</b>	<b>3.226</b>	<b>3.289</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

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.

**Justification:**

FY 2018 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 as well as to procure LUU-19 Aircraft Parachute Flares (APFs) to enable near-infrared illumination of target areas during night-time ground force engagements and Close Air Support (CAS) operations. Additionally, FY 2018 baseline funding is required for MLM and APF production support.

The Mk-25 is a new procurement beginning in FY2018 and required for small ships and combatants due to the reduced storage capacity available for these types of energetics. Continued use of these assets have reduced inventory to minimum levels; therefore procurements are needed in order to manage the inventory levels and meet the products operational requirements.

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:

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		<b>P-1 Line Item Number / Title:</b> 0400 / Ammunition less than \$5 million
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
FY 2018 Overseas Contingency Operations (OCO) is required to procure LUU-19 APFs expended during Operation Enduring Freedom (OEF) operations, replenishing 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-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1000 / Small Arms Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	343.868	24.575	32.763	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	401.206
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	343.868	24.575	32.763	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	401.206
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>343.868</b>	<b>24.575</b>	<b>32.763</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>401.206</b>

*(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:**

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.

**Justification:**

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

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1050 / 40 MM, All Types
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	361.006	0.000	15.297	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	376.303
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	361.006	0.000	15.297	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	376.303
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>361.006</b>	<b>0.000</b>	<b>15.297</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>376.303</b>

*(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 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 light Armor Piercing and HEDP rounds, as well as linked Target Practice, Day/Night marker training rounds.

**Justification:**

These funds in FY18 and out have been realigned to BLI 1350.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1083 / 60 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	51.932	1.849	1.901	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> )	51.932	1.849	1.901	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	55.682
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>51.932</b>	<b>1.849</b>	<b>1.901</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>55.682</b>

*(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 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.

**Justification:**

These funds in FY18 and out have been realigned to BLI 1085.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1085 / Mortars
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	24.118	1.290	25.408	1.839	5.125	4.912	1.950	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	24.118	1.290	25.408	1.839	5.125	4.912	1.950	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>24.118</b>	<b>1.290</b>	<b>25.408</b>	<b>1.839</b>	<b>5.125</b>	<b>4.912</b>	<b>1.950</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

This funding line is not a new start. 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 long-range indirect fire support to infantry units at ranges of approximately 100 to 6,000 meters.

Funds prior to FY18 are contained in BLI 1083 and 1091.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1085 / Mortars
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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			- / 0.000	- / 0.000	- / 0.000	- / 24.118	- / 1.290	- / 25.408
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 24.118</b>	<b>- / 1.290</b>	<b>- / 25.408</b>

\*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 2018 Baseline Appropriation Request: Funding will procure 60mm Full Range Training Practice Cartridges (BA15) and 81mm (M879) Practice Cartridges in support of baseline training munitions requirements for lightweight mortar systems. The increase from FY17 to FY18 of \$22.3M is a result of an increase in training requirements for the 60MM and 81MM mortar ammunition.

OCO:  
 FY 2018 OCO funding will be used to reset munitions expended in support of Operation Freedom's Sentinel (OFS).

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1085 / Mortars	<b>Item Number / Title [DODIC]:</b> 1 / 60 MM, All Types

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	24.118	1.290	25.408
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	24.118	1.290	25.408
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>24.118</b>	<b>1.290</b>	<b>25.408</b>

*(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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	17.96	55,528	0.997	17.96	8,000	0.144	17.96	63,528	1.141
1.1.2) BA15 FUZE PRACTICE M775 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	21.56	44,173	0.952	21.56	8,000	0.172	21.56	52,173	1.124
1.1.3) BA15 SHELL BODY 60MM FRPC <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	44.00	58,103	2.557	44.00	8,000	0.352	44.00	66,103	2.909
1.1.4) BA15 M702 IGNITION CARTRIDGE <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	17.39	58,103	1.010	17.39	8,000	0.139	17.39	66,103	1.149
1.1.5) BA15 PROPELLANT CHARGE M235 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	12.92	226,412	2.925	12.92	31,000	0.401	12.92	257,412	3.326
1.1.6) BA15 FIN ASSEMBLY M27 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	7.99	58,103	0.464	7.99	8,000	0.064	7.99	66,103	0.528
1.1.7) BA15 PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	0.427	-	-	0.018	-	-	0.445
1.1.8) BA15 QUALITY ASSURANCE	-	-	-	-	-	-	-	-	-	-	-	0.212	-	-	-	-	-	0.212
1.1.9) BA15 ACCEPTANCE TESTING	-	-	-	-	-	-	-	-	-	-	-	0.074	-	-	-	-	-	0.074

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / O2 / 1	<b>P-1 Line Item Number / Title:</b> 1085 / Mortars	<b>Item Number / Title [DODIC]:</b> 1 / 60 MM, All Types

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	9.618	-	-	1.290	-	-	10.908
<i>Subtotal: Hardware - BA15 CARTRIDGE, 60MM FULL RANGE PRACTICE Cost</i>	-	-	-	-	-	-	-	-	-	-	-	9.618	-	-	1.290	-	-	10.908
<b>Hardware - C875 CTG MORTAR 81MM FRPC Cost</b>																		
<b>Recurring Cost</b>																		
2.1.1) C875 LOAD, ASSEMBLE AND PACK <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	42.00	62,314	2.617	-	-	-	42.00	62,314	2.617
2.1.2) C875 FUZE PRACTICE, M751 <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	21.56	64,184	1.384	-	-	-	21.56	64,184	1.384
2.1.3) C875 SHELL BODY, 81MM FRPC <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	50.00	64,184	3.209	-	-	-	50.00	64,184	3.209
2.1.4) C875 IGN CTG M299 <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	18.06	64,184	1.159	-	-	-	18.06	64,184	1.159
2.1.5) C875 CHG PROP 81MM M220 <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	16.08	256,734	4.128	-	-	-	16.08	256,734	4.128
2.1.6) C875 FIN MORTAR CTG M24 <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	16.59	64,184	1.065	-	-	-	16.59	64,184	1.065
2.1.7) C875 PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	0.570	-	-	-	-	-	0.570
2.1.8) C875 ACCEPTANCE TESTING	-	-	-	-	-	-	-	-	-	-	-	0.368	-	-	-	-	-	0.368
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	14.500	-	-	-	-	-	14.500
<i>Subtotal: Hardware - C875 CTG MORTAR 81MM FRPC Cost</i>	-	-	-	-	-	-	-	-	-	-	-	14.500	-	-	-	-	-	14.500
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	24.118	-	-	1.290	-	-	25.408

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

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<b>Exhibit P-5a, Procurement History and Planning: FY 2018 Navy</b>								<b>Date: May 2017</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1				<b>P-1 Line Item Number / Title:</b> 1085 / Mortars				<b>Item Number / Title [DODIC]:</b> 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)		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		
1.1.2) 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		
1.1.3) 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		
1.1.4) 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		
1.1.5) 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		
1.1.6) 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		
2.1.1) 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		
2.1.2) C875 FUZE PRACTICE, M751		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	64,184	21.56	Y		
2.1.3) C875 SHELL BODY, 81MM FRPC		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2018	Aug 2019	64,184	50.00	Y		
2.1.4) C875 IGN CTG M299		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	64,184	18.06	Y		
2.1.5) C875 CHG PROP 81MM M220		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2018	Aug 2019	256,734	16.08	Y		
2.1.6) C875 FIN MORTAR CTG M24		2018	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2018	Aug 2019	64,184	16.59	Y		

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1091 / 81 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	68.388	1.000	7.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	76.388
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	68.388	1.000	7.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	76.388
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>68.388</b>	<b>1.000</b>	<b>7.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>76.388</b>

*(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 family of 81mm mortar cartridges is designed to be fired from the M252 medium-weight mortar system. The family consists of high explosive, smoke, illumination, and training practice rounds. The 81mm family of mortars is used for medium to long-range indirect fire support to infantry units at ranges of approximately 100 to 6,000 meters.

**Justification:**

The efforts contained in this BLI have been realigned to BLI 1085.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1121 / 120 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	268.315	4.826	17.287	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	290.428
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	268.315	4.826	17.287	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	290.428
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>268.315</b>	<b>4.826</b>	<b>17.287</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>290.428</b>

*(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 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.

**Justification:**

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

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	64.045	1.355	65.400	62.164	111.797	97.723	99.677	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	64.045	1.355	65.400	62.164	111.797	97.723	99.677	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>64.045</b>	<b>1.355</b>	<b>65.400</b>	<b>62.164</b>	<b>111.797</b>	<b>97.723</b>	<b>99.677</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

This funding line is not a new start. Beginning in FY18 this funding line represents a consolidation of ammunition line items by functional capability

The rocket and 120mm munitions family includes 120mm tank ammunition, 120mm mortars, and all types of shoulder fired rockets. 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 ammunition to support the 120mm Expeditionary Fire Support System (EFSS). The 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.

Shoulder fired 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 funds prior to FY18 are contained in BLI's 1121 and 1471.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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	- / 0.000	- / 22.815	- / 0.085	- / 22.900
P-5	2 / Rockets, All Types	P-5a, P-21			- / 0.000	- / 0.000	- / 0.000	- / 41.230	- / 1.270	- / 42.500
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 64.045</b>	<b>- / 1.355</b>	<b>- / 65.400</b>

\*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 2018 baseline funding will procure several direct support munitions to include: 120mm EFSS mortar ammunition to support annual training requirements, as well as the pre-deployment training for the deploying Marine Expeditionary Units (MEUs); Precision Extended Range Munition (PERM) which is designed to provide Marines with a lethal, extended range, high probability one-shot capability and will augment the existing (EFSS) ammunition suite; and the Shoulder Mounted Assault Weapon (SMAW) rocket, 83mm Common Practice round (CP)(DODIC HX07).

The increase from FY17 to FY18 of \$31.103K is a result of an increase in ammunition training round requirements for Rockets (HX07) and 120mm Smoke (CA49).

OCO:  
 FY 2018 OCO funding will be used to reset munitions expended in support of Operation Freedom's Sentinel (OFS).  
 The increase from FY17 to FY18 of \$1,355K is a result of an increase in ammunition training rounds for 120mm Smoke(CA49), and Rockets (HX07).

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions	<b>Item Number / Title [DODIC]:</b> 1 / 120 MM, All Types

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	22.815	0.085	22.900
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	22.815	0.085	22.900
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>22.815</b>	<b>0.085</b>	<b>22.900</b>

*(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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 120MM MORTAR WHITE PHOSPHORUS, XM1103 Cost

Recurring Cost																		
3.1.1) CA49 COMPLETE ROUND <sup>(1)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	6,951.87	1,598	11.109	6,951.87	12	0.083	6,951.87	1,610	11.192
3.1.2) CA49 ENGINEERING SUPPORT COSTS	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.002	-	-	0.002
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	11.109	-	-	0.085	-	-	11.194
<i>Subtotal: Hardware - CA49 120MM MORTAR WHITE PHOSPHORUS, XM1103 Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	11.109	-	-	0.085	-	-	11.194

Hardware - CPRM PROJECTILE 120MM MORTAR PRECISION EXTENDED RANGE Cost

Recurring Cost																		
5.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) <sup>(1)(1)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	25,670.95	456	11.706	-	-	0.000	25,670.95	456	11.706
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	11.706	-	-	0.000	-	-	11.706
<i>Subtotal: Hardware - CPRM PROJECTILE 120MM MORTAR PRECISION EXTENDED RANGE Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	11.706	-	-	0.000	-	-	11.706

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1						<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions						<b>Item Number / Title [DODIC]:</b> 1 / 120 MM, All Types					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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	-	-	0.000	-	-	22.815	-	-	0.085	-	-	22.900

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

**Footnotes:**

(1) Precision Extended Range Munition unit cost will be updated with actual award cost after contract award.

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions	<b>Item Number / Title [DODIC]:</b> 1 / 120 MM, All Types
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.1) CA49 COMPLETE ROUND <sup>(†)</sup>		2018	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Jan 2018	Jun 2019	1,598	6,951.87	Y		
3.1.1) CA49 COMPLETE ROUND <sup>(†)</sup>	✓	2018	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Jan 2018	Jun 2019	12	6,951.87	Y		
5.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) <sup>(†)</sup>		2018	RAYTHEON/LOCKHEED MARTIN JAVELIN JOINT VENTURE / TUCSON, AZ	C / FPIF	MCSC, QUANTICO VA	Oct 2017	Oct 2018	456	25,670.95	Y		

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions	<b>Item Number / Title [DODIC]:</b> 1 / 120 MM, All Types
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018													Fiscal Year 2019													BALANCE	
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) CA49 COMPLETE ROUND																																	
	1	2018	NAVY	1,598	0	1,598				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,598	0			
✓	1	2018	NAVY	12	0	12				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	0			
5.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) <sup>(1)</sup>																																	
	2	2018	NAVY	456	0	456	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	456		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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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Navy	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions	<b>Item Number / Title [DODIC]:</b> 1 / 120 MM, All Types
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	200	400	4,500	18	0	18	18	18	0	17	17
2	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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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions	<b>Item Number / Title [DODIC]:</b> 2 / Rockets, All Types

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	41.230	1.270	42.500
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	41.230	1.270	42.500
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>41.230</b>	<b>1.270</b>	<b>42.500</b>

*(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.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost</b>																		
<b>Recurring Cost</b>																		
1.1.1) HX07 COMPLETE ROUND <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	3,543.93	11,544	40.911	3,543.93	333	1.180	3,543.93	11,877	42.091
1.1.2) PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.319	-	-	0.090	-	-	0.409
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	41.230	-	-	1.270	-	-	42.500
<i>Subtotal: Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	41.230	-	-	1.270	-	-	42.500
<b>Gross/Weapon System Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>41.230</b>	-	-	<b>1.270</b>	-	-	<b>42.500</b>

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions	<b>Item Number / Title [DODIC]:</b> 2 / Rockets, All Types
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) HX07 COMPLETE ROUND <sup>(†)</sup>		2018	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Mar 2018	Jul 2020	11,544	3,543.93	Y		
1.1.1) HX07 COMPLETE ROUND <sup>(†)</sup>	✓	2018	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Mar 2018	Jul 2020	333	3,543.93	Y		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions	<b>Item Number / Title [DODIC]:</b> 2 / Rockets, All Types
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2018													Fiscal Year 2019													BALANCE	
O 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) HX07 COMPLETE ROUND																																	
	1	2018	NAVY	11.544 <sup>(2)</sup>	.000	11.544																							11.544				
✓	1	2018	NAVY	.333 <sup>(3)</sup>	.000	.333																						.333					

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date: May 2017**

**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	
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) HX07 COMPLETE ROUND																															
	1	2018	NAVY	11.544 (2)	.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	1.046	.037	.000	
✓	1	2018	NAVY	.333 <sup>(3)</sup>	.000	.333	-	-	-	-	-	-	-	-	.225	.108													.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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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Navy	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1125 / Direct Support Munitions	<b>Item Number / Title [DODIC]:</b> 2 / Rockets, All Types
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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

"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:**

<sup>(2)</sup> FY 2018 is an option year on an existing contract and is likely to award earlier than stated.

<sup>(3)</sup> 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:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	91.456	1.854	93.310	57.615	72.213	80.539	74.009	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	91.456	1.854	93.310	57.615	72.213	80.539	74.009	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>91.456</b>	<b>1.854</b>	<b>93.310</b>	<b>57.615</b>	<b>72.213</b>	<b>80.539</b>	<b>74.009</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

This funding line is not a new start. 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 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. 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 in general is described as 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 the Light Armored Vehicle. Medium caliber ammunition consists primarily of 25mm cartridges and 40mm cartridges.

The funds prior to FY18 are contained in BLI's 1000, 1050 and 1388.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

**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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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	- / 0.000	- / 17.600	- / 0.796	- / 18.396
P-5	2 / CTG 25 MM, All Types	P-5a			- / 0.000	- / 0.000	- / 0.000	- / 3.285	- / 0.000	- / 3.285
P-5	3 / Small Arms Ammunition	P-5a, P-21			- / 0.000	- / 0.000	- / 0.000	- / 70.571	- / 1.058	- / 71.629
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 91.456</b>	<b>- / 1.854</b>	<b>- / 93.310</b>

\*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 2018 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 25mm ammunition, 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).

This line item includes the funding in support of all small arms ammunition, 25mm ammunition used in the Light Armored Vehicle (LAV) and the 40mm ammunition programs for FY18.

The increase from FY17 to FY18 of \$43,396K is a result of an increase in ammunition training round requirements for A059 5.56mm ball (A059), .50 Cal (A576), 25mm TPDS-T rounds (A940), 5.56mm FX Orange, (AB05), 5.56mm FX Red, (AB06), .50 4 Ball-MK322 Tracer (AB64), .50 4 ball-MK322 Linked (AB65) and 40mm Practice Rounds (BA21).

OCO:  
FY 2018 OCO funding will be used to reset munitions expended in support of Operation Freedom's Sentinel (OFS).  
The increase from FY17 to FY18 of \$1,854K is a result of an increase in ammunition training rounds for 5.56mm ball (A059), and 40mm Practice Rounds (BA21).

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 40 MM, All Types

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	17.600	0.796	18.396
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	17.600	0.796	18.396
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>17.600</b>	<b>0.796</b>	<b>18.396</b>

*(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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 <sup>(t)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	35.90	487,465	17.500	35.90	22,173	0.796	35.90	509,638	18.296
1.1.2) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.090	-	-	0.000	-	-	0.090
1.1.3) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.010	-	-	0.000	-	-	0.010
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>17.600</i>	-	-	<i>0.796</i>	-	-	<i>18.396</i>
<i>Subtotal: Hardware - BA21-CTG, 40MM PRACTICE DAY/NIGHT MK281 MOD3 Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>17.600</i>	-	-	<i>0.796</i>	-	-	<i>18.396</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>17.600</b>	-	-	<b>0.796</b>	-	-	<b>18.396</b>

<sup>(t)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 40 MM, All Types
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK <sup>(†)</sup>		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 <sup>(†)</sup>	✓	2018	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	SS / IDIQ	MCSC, QUANTICO, VA	May 2018	May 2019	22,173	35.90	Y		Feb 2018

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date:** May 2017

**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 <i>(Units in Thousands)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE				
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																							40.000	40.000	40.000	40.000	40.000	287.465
✓	1	2018	NAVY	22.173	.000	22.173																							2.000	2.000	2.000	2.000	2.000	12.173
							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: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 40 MM, All Types
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Cost Elements <i>(Units in Thousands)</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) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD3 - LOAD, ASSEMBLE, AND PACK																															
	1	2018	NAVY	487.465	200.000	287.465	40.000	40.000	40.000	45.000	45.000	40.000	37.465																.000		
✓	1	2018	NAVY	22.173	10.000	12.173	2.000	2.000	2.000	2.000	2.000	2.173																	.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: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition	<b>Item Number / Title [DODIC]:</b> 1 / 40 MM, All Types
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	500,000	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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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1		<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition
		<b>Item Number / Title [DODIC]:</b> 2 / CTG 25 MM, All Types

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	3.285	0.000	3.285
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	3.285	0.000	3.285
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>3.285</b>	<b>0.000</b>	<b>3.285</b>

*(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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 <sup>(t)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	51.43	60,567	3.115	-	-	0.000	51.43	60,567	3.115
1.1.2) A940 - CTG, 25MM TPDS-T LINKED M910 - CONTAINER PA125 <sup>(t)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	81.19	2,047	0.166	-	-	0.000	81.19	2,047	0.166
1.1.3) A940 - CTG, 25MM TPDS-T LINKED M910 - QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.004	-	-	0.000	-	-	0.004
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>3.285</i>	-	-	<i>0.000</i>	-	-	<i>3.285</i>
<i>Subtotal: Hardware - A940 - CTG, 25MM TPDS-T LINKED M910 Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>3.285</i>	-	-	<i>0.000</i>	-	-	<i>3.285</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>3.285</b>	-	-	<b>0.000</b>	-	-	<b>3.285</b>

<sup>(t)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition	<b>Item Number / Title [DODIC]:</b> 2 / CTG 25 MM, All Types
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) A940 - CTG, 25MM TPDS-T LINKED M910 - LOAD, ASSEMBLE, AND PACK		2018 <sup>(1)</sup>	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 <sup>(2)</sup>	GOVERNMENT FURNISHED MATERIAL / ROCK ISLAND ARSENAL,IL	MIPR	N/A	Jan 2018	Apr 2018	2,047	81.19	Y		

**Footnotes:**

- <sup>(1)</sup> The A940, Cartridge, 25mm Linked is being purchased from existing Army stockpile.
- <sup>(2)</sup> The A940, Cartridge, 25mm Linked Container is being purchased from existing Army stockpile.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition	<b>Item Number / Title [DODIC]:</b> 3 / Small Arms Ammunition

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	70.571	1.058	71.629
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	70.571	1.058	71.629
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>70.571</b>	<b>1.058</b>	<b>71.629</b>

*(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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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																		
3.1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	0.24	145,494K	34.919	0.24	4,137,500	0.993	0.24	149,632K	35.912
3.1.2) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	13.67	169,948	2.323	13.67	4,754	0.065	13.67	174,702	2.388
3.1.3) A059, 5.56MM BALL, PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.411	-	-	0.000	-	-	1.411
3.1.4) A059, 5.56MM BALL, QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.009	-	-	0.000	-	-	0.009
3.1.5) A059, 5.56MM BALL, ACCEPTANCE TESTING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.042	-	-	0.000	-	-	0.042
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>38.704</i>	-	-	<i>1.058</i>	-	-	<i>39.762</i>
<i>Subtotal: Hardware - A059, CTG, 5.56MM BALL Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>38.704</i>	-	-	<i>1.058</i>	-	-	<i>39.762</i>

Hardware - A363, CTG, 9MM BALL Cost																		
Recurring Cost																		
5.1.1) A363, 9MM BALL, LOAD,	-	-	0.000	-	-	0.000	-	-	0.000	0.17	1,382,800	0.239	-	-	0.000	0.17	1,382,800	0.239

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: FY 2018 Navy** **Date:** May 2017

**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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 (LAP) <sup>(†)</sup>																		
5.1.2) A363, 9MM BALL, BOX METAL M2A2 (EA) (1)	-	-	0.000	-	-	0.000	-	-	0.000	13.67	1,397	0.019	-	-	0.000	13.67	1,397	0.019
5.1.3) A363, 9MM BALL, PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.030	-	-	0.000	-	-	0.030
5.1.4) A363, 9MM BALL, QUALITY ASSURANCE	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.001	-	-	0.000	-	-	0.001
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.289	-	-	0.000	-	-	0.289
<i>Subtotal: Hardware - A363, CTG, 9MM BALL Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.289	-	-	0.000	-	-	0.289
<i>Hardware - A576, CTG, CAL .50 4 &amp; 1 LINKED Cost</i>																		
<i>Recurring Cost</i>																		
7.1.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	1.98	134,011	0.265	-	-	0.000	1.98	134,011	0.265
7.1.2) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2 <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	13.67	1,367	0.019	-	-	0.000	13.67	1,367	0.019
7.1.3) A576, CAL. 50 4 & 1 LINKED, PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.013	-	-	0.000	-	-	0.013
7.1.4) A576, CAL. 50 4 & 1 LINKED, ACCEPTANCE TESTING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.003	-	-	0.000	-	-	0.003
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.300	-	-	0.000	-	-	0.300
<i>Subtotal: Hardware - A576, CTG, CAL .50 4 &amp; 1 LINKED Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.300	-	-	0.000	-	-	0.300
<i>Hardware - AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE) Cost</i>																		
<i>Recurring Cost</i>																		
10.1.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	0.65	5,896,922	3.828	-	-	0.000	0.65	5,896,922	3.828

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: FY 2018 Navy** **Date:** May 2017

**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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	3.828	-	-	0.000	-	-	3.828
<i>Subtotal: Hardware - AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE) Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	3.828	-	-	0.000	-	-	3.828
Hardware - AB06, CTG, 5.56MM SESAMS SINGLE RND (RED) Cost																		
Recurring Cost																		
11.1.1) AB06, 5.56MM SESAMS SINGLE RND (RED), COMPLETE ROUND <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	0.67	4,025,373	2.706	-	-	0.000	0.67	4,025,373	2.706
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.706	-	-	0.000	-	-	2.706
<i>Subtotal: Hardware - AB06, CTG, 5.56MM SESAMS SINGLE RND (RED) Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.706	-	-	0.000	-	-	2.706
Hardware - AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED Cost																		
Recurring Cost																		
13.1.1) AB64, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	4.66	3,507,511	16.345	-	-	0.000	4.66	3,507,511	16.345
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	16.345	-	-	0.000	-	-	16.345
<i>Subtotal: Hardware - AB64, CTG, CAL .50 4 &amp; 1 REDUCED RANGE LINKED Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	16.345	-	-	0.000	-	-	16.345
Hardware - AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED Cost																		
Recurring Cost																		
14.1.1) AB65, CAL .50 BALL REDUCED RANGE LINKED, COMPLETE ROUND <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	4.27	1,948,947	8.322	-	-	0.000	4.27	1,948,947	8.322
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	8.322	-	-	0.000	-	-	8.322
<i>Subtotal: Hardware - AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	8.322	-	-	0.000	-	-	8.322
Hardware - AC07 (formerly AXX3), CTG, 9MM BLANK SINGLE ROUND Cost																		
Recurring Cost																		

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1						<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition						<b>Item Number / Title [DODIC]:</b> 3 / Small Arms Ammunition					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
16.1.1) AC07 (formerly AXX3), 9MM BLANK, COMPLETE ROUND <sup>(t)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	2.78	27,712	0.077	-	-	0.000	2.78	27,712	0.077
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.077	-	-	0.000	-	-	0.077
<i>Subtotal: Hardware - AC07 (formerly AXX3), CTG, 9MM BLANK SINGLE ROUND Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.077	-	-	0.000	-	-	0.077
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	70.571	-	-	1.058	-	-	71.629

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / O2 / 1	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition	<b>Item Number / Title [DODIC]:</b> 3 / Small Arms Ammunition
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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
3.1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) <sup>(†)</sup>		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		
3.1.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) <sup>(†)</sup>	✓	2018	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2018	Oct 2018	4,137,500	0.24	Y		
3.1.2) 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		
3.1.2) 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		
5.1.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP)		2018 <sup>(3)</sup>	OLIN CORPORATION / ILLINOIS	C / FFP	Rock Island Arsenal, IL	Mar 2018	Oct 2018	1,382,800	0.17	Y		
7.1.1) 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		
7.1.2) 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		
10.1.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND		2018	TO BE SELECTED / TBD	TBD	MCSC, QUANTICO, VA	Apr 2018	Jul 2018	5,896,922	0.65	Y		
11.1.1) AB06, 5.56MM SESAMS SINGLE RND (RED), COMPLETE ROUND		2018	TO BE SELECTED / TBD	TBD	MCSC, QUANTICO, VA	Apr 2018	Jul 2018	4,025,373	0.67	Y		
13.1.1) AB64, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND <sup>(†)</sup>		2018	TO BE SELECTED / TBD	C / TBD	NSWC CD, CRANE, IN	Apr 2018	Jul 2018	3,507,511	4.66	Y		
14.1.1) AB65, CAL .50 BALL REDUCED RANGE LINKED, COMPLETE ROUND		2018	TO BE SELECTED / TBD	C / TBD	NSWC CD, CRANE, IN	Apr 2018	Jul 2018	1,948,947	4.27	Y		
16.1.1) AC07 (formerly AXX3), 9MM BLANK, COMPLETE ROUND		2018	TO BE SELECTED / TBD	SS / FFP	MCSC, QUANTICO, VA	Jan 2018	Jul 2018	27,712	2.78	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

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



**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> FY 2018 Navy	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1350 / Infantry Weapons Ammunition	<b>Item Number / Title [DODIC]:</b> 3 / Small Arms Ammunition
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	TBD	TBD	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:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1468 / Grenades, All Types
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	53.890	1.390	1.972	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	57.252
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	53.890	1.390	1.972	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	57.252
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>53.890</b>	<b>1.390</b>	<b>1.972</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>57.252</b>

*(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:**

Grenades, All Types includes the family of grenades and all pyrotechnic items such as Colored Smoke Grenades which are used in training and combat for ground-to-air or ground-to-ground signaling, as well as in small level, short duration obscuration scenarios.

Pyrotechnic items include hand held/employed explosive devices used to simulate actual explosions on the battlefield. Pyrotechnic items are also used as signaling devices dependent on actual missions and/or training exercises. Several other pyrotechnic devices are also used to simulate battlefield noises and effects, artillery shells in flight, ground burst explosions, and to simulate target impact and/or target kill on armored vehicles. The Battlefield Effects Simulator (BES) cartridges are used in the OMEGA 36/60 firing system. The four BES cartridges; Simulator Signal and Illumination White Star; Simulator, Airburst; Simulator, Hostile Fire; and Simulator, Anti-Tank Stinger are used to demonstrate detection and instill precautionary counter-measures, by producing flash-bangs and stars that simulate thermal/visual/acoustic effects on the battlefield, and are used to simulate Improvised Explosive Devices (IEDs).

**Justification:**

The funds in FY18 and out have been realigned to BLI 1550.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1471 / Rockets, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	134.822	18.960	14.655	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	168.437
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	134.822	18.960	14.655	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	168.437
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>134.822</b>	<b>18.960</b>	<b>14.655</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>168.437</b>

*(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 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 High Explosive anti-armor (HEAA) weapon is a lightweight, single shot, disposable weapon optimized to defeat light armored vehicles and other hard targets at close combat ranges.

The Tactical Rocket, 83mm High Explosive (HE) Shoulder Mounted Assault Weapon (SMAW) Rocket is designed especially for use against main battle tanks and other armored vehicles. The rocket is unguided, dual mode, high explosive rocket contained in a disposable one-shot rocket container.

The Rocket, 83mm Common Practice (CP) Shoulder Mounted Assault Weapon (SMAW). The CP round is an unguided shoulder fired practice rocket designed to simulate firing a live rocket at hardened targets.

**Justification:**

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

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1473 / Artillery, All Types
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	389.140	101.908	69.852	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	560.900
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	389.140	101.908	69.852	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	560.900
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>389.140</b>	<b>101.908</b>	<b>69.852</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>560.900</b>

*(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 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.

**Justification:**

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

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1500 / Demolition Munitions, All Types
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	68.337	0.518	1.961	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	70.816
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	68.337	0.518	1.961	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	70.816
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>68.337</b>	<b>0.518</b>	<b>1.961</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>70.816</b>

*(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:**

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.

**Justification:**

The funds contained in this BLI have been realigned to BLI 1550.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1550 / Combat Support Munitions
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	11.788	0.000	11.788	21.079	26.881	35.228	27.714	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	11.788	0.000	11.788	21.079	26.881	35.228	27.714	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>11.788</b>	<b>0.000</b>	<b>11.788</b>	<b>21.079</b>	<b>26.881</b>	<b>35.228</b>	<b>27.714</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

This funding line is not a new start. Beginning in FY18 this funding line represents a consolidation of ammunition line items by functional capability.

This line includes demolition items, grenades, pyrotechnical devices, 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 and ammunition.

Also included are all grenades, pyrotechnics and mines used by the ground element of the Marine Corps. This includes colored smoke grenades, various pyrotechnics used in training to simulate battlefield affects, and the claymore mine and claymore mine trainers.

This family also includes 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 BLI's 1030, 1468, 1500 and 1628.

**Justification:**

This line includes the funding in support of all linear charges, grenades, pyrotechnic devices, mines, demolition items, and non-lethal munition programs.

The FY 2018 baseline funding will procure line charges (DODIC M913) 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 2018 funds will also be used for Engineering Support In Production (ESIP) for Smoke Grenades and the four Battlefields Effects Simulator (BES) cartridges used in the Omega 36 and Omega 60 training systems. ESIP costs support engineering functions on produced units which includes quality assurance, configuration management, lot testing support, and production support for items currently in production.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition		<b>P-1 Line Item Number / Title:</b> 1550 / Combat Support Munitions
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
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 and producibility concerns during these processes.		

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1625 / Fuze, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	127.182	31.268	26.305	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	184.755
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	127.182	31.268	26.305	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	184.755
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>127.182</b>	<b>31.268</b>	<b>26.305</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>184.755</b>

*(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:**

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.

**Justification:**

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

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1628 / Non Lethals
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	11.988	3.868	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	15.856
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	11.988	3.868	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	15.856
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>11.988</b>	<b>3.868</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>15.856</b>

*(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:**

Non-Lethal Munition All Types includes: a family of 12 Gauge, 40mm Grenades, Diversionsary Devices, Grenades and Mission Payload Module (MPMN). These munitions are explicitly designed and primarily employed to immediately incapacitate targeted personnel or materiel, while minimizing fatalities, permanent injury to personnel, and undesired damage to property in the target area or environment. Non-lethal weapons are intended to have reversible effects on personnel and material. These cartridges are fired from Marine Corps (MC) organic weapons with attachments, such as the M16A4 Service Weapons and M4 Carbines with the M203, 40mm Grenade Launcher or the Grenade Launcher Cup.

**Justification:**

FY18 Baseline Funding: N/A. Future Non Lethals will be procured out of BLI 1550. This update was included in the line item consolidation effort beginning in FY18.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1630 / Ammo Modernization
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	52.768	13.322	14.660	17.862	0.000	17.862	17.583	17.175	17.523	17.879	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	52.768	13.322	14.660	17.862	0.000	17.862	17.583	17.175	17.523	17.879	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>52.768</b>	<b>13.322</b>	<b>14.660</b>	<b>17.862</b>	<b>0.000</b>	<b>17.862</b>	<b>17.583</b>	<b>17.175</b>	<b>17.523</b>	<b>17.879</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

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 also supports the efforts which assigns authority to the Naval Surface Warfare Center (NSWC), Crane, Indiana and delegates authority to the Expeditionary Systems Evaluation Division (ESED) at NSWC Crane, to perform Marine Corps ground delivered class V(W) ammunition systems assessment, test and evaluation, and engineering support.

**Justification:**

The FY 2018 funding request was increased by \$3.202M to address increased ammunition surveillance efforts to maintain a robust inventory.

In FY 2018 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 increase in funding from FY17 to FY18 supports increases in the level of effort to modernize and sustain the USMC ammunition inventory, which includes Rockets, Line Charges, Artillery, Tanks, Ancillary Components, Small Arms and Missiles. 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. 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:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1650 / Artillery Munitions
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	79.427	5.319	84.746	81.182	131.846	142.848	148.514	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	79.427	5.319	84.746	81.182	131.846	142.848	148.514	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>79.427</b>	<b>5.319</b>	<b>84.746</b>	<b>81.182</b>	<b>131.846</b>	<b>142.848</b>	<b>148.514</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

This funding line is not a new start. 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 BLI's 1473 and 1625.

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**Exhibit P-40, Budget Line Item Justification:** FY 2018 Navy **Date:** May 2017

**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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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				- / 0.000	- / -	- / -	- / 59.887	- / 4.533	- / 64.420
P-5	3 / Fuze, All Types	P-5a, P-21			- / 0.000	- / 0.000	- / 0.000	- / 19.540	- / 0.786	- / 20.326
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 79.427</b>	<b>- / 5.319</b>	<b>- / 84.746</b>

\*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 2018 Baseline Appropriation Request: Funding will support the procurement of 155mm High Explosive (HE) M795 with TNT (DODIC D529) in place of 155mm HE M795 with IMX-101 (DODIC DA54) in FY18. The new 155mm HE Training Projectile M1122 (DA51) will be procured as well. The increase from FY17 to FY18 of \$19.9M is a result of an increase in training requirements for the 155mm High Explosive (TNT) and the 155mm Practice Projectile artillery ammunition.

FY 2018 baseline funding will also support the procurement of the Precision Guidance Kit (PGK). 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.

This line item includes funding in support of all artillery ammunition and fuze programs.

OCO:  
 FY 2018 OCO funding will be used to reset munitions expended in support of Operation Freedom's Sentinel (OFS).

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Navy** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1650 / Artillery Munitions **Aggregated Items Title:** Artillery, All Types

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>1) D529, PRJ 155MM HE M795 TNT</b>																				
1.1) D529 M795 Metal Parts	A		-	-	-	-	-	-	-	-	465.00	49,110	22.836	465.00	2,613	1.215	465.00	51,723	24.051	
1.2) D529 M795 LAP	A		-	-	-	-	-	-	-	-	443.72	48,173	21.375	443.72	6,839	3.035	443.72	55,012	24.410	
1.3) D529 TNT Supplemental Charge	A		-	-	-	-	-	-	-	-	16.19	49,110	0.795	16.19	2,613	0.042	16.19	51,723	0.837	
1.4) D529 Wooden Pallets	A		-	-	-	-	-	-	-	-	89.74	6,259	0.562	89.74	930	0.083	89.74	7,189	0.645	
1.5) D529 Production Engineering	A		-	-	-	-	-	-	-	-	-	-	1.106	-	-	0.001	-	-	1.107	
1.6) D529 Acceptance Testing	A		-	-	-	-	-	-	-	-	-	-	0.316	-	-	0.157	-	-	0.473	
<b>Subtotal: 1) D529, PRJ 155MM HE M795 TNT</b>			-	-	0.000	-	-	-	-	-	-	-	46.990	-	-	4.533	-	-	51.523	
<b>2) DA51, 155MM HE Training Projectile M1122</b>																				
2.1) DA51 Load, Assemble & Pack (LAP)	A		-	-	-	-	-	-	-	-	325.00	30,000	9.750	-	-	-	325.00	30,000	9.750	
2.2) DA51 Wooden Pallet	A		-	-	-	-	-	-	-	-	100.00	4,340	0.434	-	-	-	100.00	4,340	0.434	
2.3) DA51 Plug, Lifting, Melttable for IM	A		-	-	-	-	-	-	-	-	12.00	34,055	0.409	-	-	-	12.00	34,055	0.409	
2.4) DA51 Supplemental Charge, PBXN9	A		-	-	-	-	-	-	-	-	35.34	34,055	1.204	-	-	-	35.34	34,055	1.204	
2.5) DA51 TNT TYPE I FLAKE	A		-	-	-	-	-	-	-	-	2.48	100,162	0.248	-	-	-	2.48	100,162	0.248	
2.6) DA51 Production Engineering	A		-	-	-	-	-	-	-	-	-	-	0.852	-	-	-	-	-	0.852	
<b>Subtotal: 2) DA51, 155MM HE Training Projectile M1122</b>			-	-	0.000	-	-	-	-	-	-	-	12.897	-	-	-	-	-	12.897	
<b>Total</b>			-	-	0.000	-	-	-	-	-	-	-	59.887	-	-	4.533	-	-	64.420	

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

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>						<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1				<b>P-1 Line Item Number / Title:</b> 1650 / Artillery Munitions			<b>Item Number / Title [DODIC]:</b> 3 / Fuze, All Types		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				0.000	0.000	0.000	19.540	0.786	20.326
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				0.000	0.000	0.000	19.540	0.786	20.326
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>19.540</b>	<b>0.786</b>	<b>20.326</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	86.01	5,458	0.469	-	-	0.000	86.01	5,458	0.469
1.1.2) N340 PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.013	-	-	0.000	-	-	0.013
1.1.3) N340 ACCEPTANCE TESTING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.020	-	-	0.000	-	-	0.020
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.502	-	-	0.000	-	-	0.502
<i>Subtotal: Hardware - N340 FUZE PD M739A1 Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.502	-	-	0.000	-	-	0.502
Hardware - NA29 PRECISION GUIDED KIT (NPGK) Cost																		
Recurring Cost																		
2.1.1) NA29 COMPLETE FUZE <sup>(†)</sup> (†)	-	-	0.000	-	-	0.000	-	-	0.000	8,966.25	1,829	16.399	8,966.25	87	0.780	8,966.25	1,916	17.179
2.1.2) NA29 PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.161	-	-	0.006	-	-	1.167
2.1.3) NA29 ACCEPTANCE TESTING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.414	-	-	0.000	-	-	0.414

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<b>Exhibit P-5, Cost Analysis: FY 2018 Navy</b>												<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1						<b>P-1 Line Item Number / Title:</b> 1650 / Artillery Munitions						<b>Item Number / Title [DODIC]:</b> 3 / Fuze, All Types					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.064	-	-	0.000	-	-	1.064
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	19.038	-	-	0.786	-	-	19.824
<i>Subtotal: Hardware - NA29 PRECISION GUIDED KIT (NPGK) Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	19.038	-	-	0.786	-	-	19.824
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	19.540	-	-	0.786	-	-	20.326

(t) 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.

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Navy** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1650 / Artillery Munitions	<b>Item Number / Title [DODIC]:</b> 3 / Fuze, All Types
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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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) N340 COMPLETE ROUND		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 <sup>(†)</sup>		2018	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Mar 2018	Mar 2020	1,829	8,966.25	Y		
2.1.1) NA29 COMPLETE FUZE <sup>(†)</sup>	✓	2018	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Mar 2018	Mar 2020	87	8,966.25	Y		

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule: FY 2018 Navy** **Date: May 2017**

**Appropriation / Budget Activity / Budget Sub Activity:** 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1650 / Artillery Munitions **Item Number / Title [DODIC]:** 3 / Fuze, All Types

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
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
2.1.1) NA29 COMPLETE FUZE <sup>(1)</sup>																															
	1	2018	NAVY	1,829	0	1,829																							1,829		
✓	1	2018	NAVY	87	0	87																							87		
							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: FY 2018 Navy** **Date: May 2017**

**Appropriation / Budget Activity / Budget Sub Activity:** 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1650 / Artillery Munitions **Item Number / Title [DODIC]:** 3 / Fuze, All Types

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
2.1.1) NA29 COMPLETE FUZE <sup>(1)</sup>																															
	1	2018	NAVY	1,829	0	1,829	-	-	-	-	-	-	149	149	150	150	150	150	150	150	155	155	155	155	155	161		0			
✓	1	2018	NAVY	87	0	87	-	-	-	-	-	87																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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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Navy	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N / 02 / 1	<b>P-1 Line Item Number / Title:</b> 1650 / Artillery Munitions	<b>Item Number / Title [DODIC]:</b> 3 / Fuze, All Types
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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 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:** FY 2018 Navy **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	<b>P-1 Line Item Number / Title:</b> 1660 / Items less than \$5 million
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	47.154	10.509	8.569	5.960	0.000	5.960	6.363	7.159	7.525	7.984	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	47.154	10.509	8.569	5.960	0.000	5.960	6.363	7.159	7.525	7.984	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>47.154</b>	<b>10.509</b>	<b>8.569</b>	<b>5.960</b>	<b>0.000</b>	<b>5.960</b>	<b>6.363</b>	<b>7.159</b>	<b>7.525</b>	<b>7.984</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

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.

**Justification:**

The FY 2018 funding request was reduced by \$2.7M to reflect FDT historical expenditures and address Marine Security Guard Battalion (MSGB) current threat assessment.

FY 2018 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 2018 and MSGB ammunition requirements procured through the U.S. State Department.

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