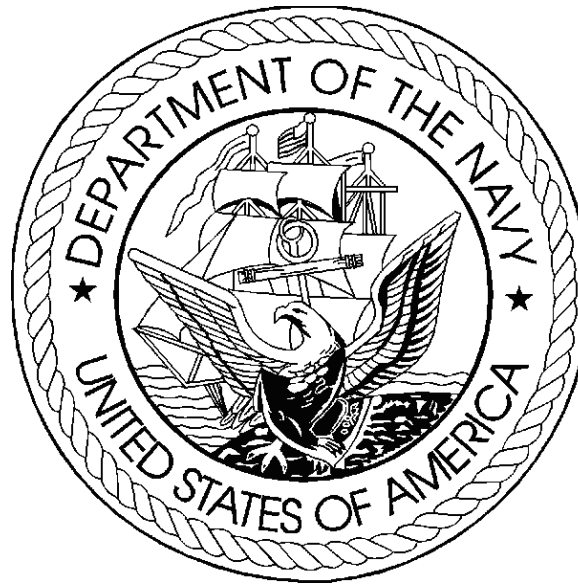


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**Department of Defense
Fiscal Year (FY) 2016 President's Budget Submission**

February 2015



Navy

Justification Book Volume 2 of 2

Procurement of Ammo, Navy & MC

Budget Activity 02

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The estimated total cost for producing the Department of Navy budget justification material is approximately \$1,436,000 for the 2015 fiscal year.
This includes \$74,000 in supplies and \$1,362,000 in labor.

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Navy • President's Budget Submission FY 2016 • Procurement

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Department of Defense Appropriations Act, 2016

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, \$860,671,000, to remain available for obligation until September 30, 2018.

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Department of the Navy
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

09 Jan 2015

Appropriation -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
Procurement of Ammo, Navy & MC	719,042	674,100	154,519	828,619
Total Department of the Navy	719,042	674,100	154,519	828,619

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
Procurement of Ammo, Navy & MC	723,741	136,930	860,671
Total Department of the Navy	723,741	136,930	860,671

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Department of the Navy
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

09 Jan 2015

Appropriation: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
01. Proc Ammo, Navy	557,568	562,435	62,464	624,899
02. Proc Ammo, MC	161,474	111,665	92,055	203,720
Total Procurement of Ammo, Navy & MC	719,042	674,100	154,519	828,619

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
01. Proc Ammo, Navy	538,212	51,201	589,413
02. Proc Ammo, MC	185,529	85,729	271,258
Total Procurement of Ammo, Navy & MC	723,741	136,930	860,671

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
Budget Activity 01: Proc Ammo, Navy							

Navy Ammunition							
1	General Purpose Bombs	A	49,127	79,347	7,596	86,943	U
2	Airborne Rockets, All Types	A	95,743	67,416	8,862	76,278	U
3	Machine Gun Ammunition	A	28,566	20,284	3,473	23,757	U
4	Practice Bombs	A	31,473	26,701		26,701	U
5	Cartridges & Cart Actuated Devices	A	53,764	50,866		50,866	U
6	Air Expendable Countermeasures	A	98,078	59,294	29,376	88,670	U
7	JATOS	A	2,749				U
8	LRLAP 6" Long Range Attack Projectile	A	4,687	113,092		113,092	U
9	5 Inch/54 Gun Ammunition	A	21,726	35,702		35,702	U
10	Intermediate Caliber Gun Ammunition	A	32,299	2,133		2,133	U
11	Other Ship Gun Ammunition	A	40,807	43,906	3,919	47,825	U
12	Small Arms & Landing Party Ammo	A	73,195	50,535	3,561	54,096	U
13	Pyrotechnic and Demolition	A	13,084	11,652	2,913	14,565	U
14	Ammunition Less Than \$5 Million	A	12,270	1,507	2,764	4,271	U
Total Proc Ammo, Navy			557,568	562,435	62,464	624,899	

Budget Activity 02: Proc Ammo, MC

Marine Corps Ammunition

15	Small Arms Ammunition		28,254	31,708	9,475	41,183	U
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P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:30:17

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	----	-----	----	-----	----	-
Budget Activity 01: Proc Ammo, Navy									

Navy Ammunition									
1	General Purpose Bombs	A	101,238		9,715		110,953		U
2	Airborne Rockets, All Types	A	67,289		11,108		78,397		U
3	Machine Gun Ammunition	A	20,340		3,603		23,943		U
4	Practice Bombs	A	40,365				40,365		U
5	Cartridges & Cart Actuated Devices	A	49,377				49,377		U
6	Air Expendable Countermeasures	A	59,651		11,982		71,633		U
7	JATOS	A	2,806				2,806		U
8	LRLAP 6" Long Range Attack Projectile	A	11,596				11,596		U
9	5 Inch/54 Gun Ammunition	A	35,994				35,994		U
10	Intermediate Caliber Gun Ammunition	A	36,715				36,715		U
11	Other Ship Gun Ammunition	A	45,483		4,674		50,157		U
12	Small Arms & Landing Party Ammo	A	52,080		3,456		55,536		U
13	Pyrotechnic and Demolition	A	10,809		1,989		12,798		U
14	Ammunition Less Than \$5 Million	A	4,469		4,674		9,143		U
			-----		-----		-----		
Total Proc Ammo, Navy			538,212		51,201		589,413		

Budget Activity 02: Proc Ammo, MC

Marine Corps Ammunition

15	Small Arms Ammunition		46,848				46,848		U
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P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:30:17

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Department of the Navy
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

09 Jan 2015

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
16	Linear Charges, All Types	A	9,398	692	8,843	9,535	U
17	40 Mm, All Types	A	13,138	6,965	7,098	14,063	U
18	60mm, All Types	A	8,017	2,261	5,935	8,196	U
19	81mm, All Types	A	9,202	1,496	9,318	10,814	U
20	120mm, All Types	A	27,027	12,155	6,921	19,076	U
21	Ctg 25mm, All Types	A	1,887				U
22	Grenades, All Types	A	4,510	3,000	3,218	6,218	U
23	Rockets, All Types	A		12,853	7,642	20,495	U
24	Artillery, All Types	A	1,035	12,068	30,289	42,357	U
25	Demolition Munitions, All Types	A	418		1,255	1,255	U
26	Fuze, All Types	A	39,575	4,972	2,061	7,033	U
27	Non Lethals	B		998		998	U
28	Ammo Modernization	A	8,328	11,319		11,319	U
29	Items Less Than \$5 Million	A	10,685	11,178		11,178	U
			-----	-----	-----	-----	
	Total Proc Ammo, MC		161,474	111,665	92,055	203,720	
			-----	-----	-----	-----	
	Total Procurement of Ammo, Navy & MC		719,042	674,100	154,519	828,619	

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:30:17

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	----	-----	----	-----	----	-
16	Linear Charges, All Types	A		350				350	U
17	40 Mm, All Types	A		500				500	U
18	60mm, All Types	A		1,849				1,849	U
19	81mm, All Types	A		1,000				1,000	U
20	120mm, All Types	A		13,867		10,719		24,586	U
21	Ctg 25mm, All Types	A							U
22	Grenades, All Types	A		1,390				1,390	U
23	Rockets, All Types	A		14,967		3,993		18,960	U
24	Artillery, All Types	A		45,219		67,200		112,419	U
25	Demolition Munitions, All Types	A				518		518	U
26	Fuze, All Types	A		29,335		3,299		32,634	U
27	Non Lethals	B		3,868				3,868	U
28	Ammo Modernization	A		15,117				15,117	U
29	Items Less Than \$5 Million	A		11,219				11,219	U
				-----		-----		-----	
	Total Proc Ammo, MC			185,529		85,729		271,258	
				-----		-----		-----	
	Total Procurement of Ammo, Navy & MC			723,741		136,930		860,671	

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:30:17

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

Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	01	0145	General Purpose Bombs.....	Volume 1 - 1
2	01	01	0151	Airborne Rockets, All Types.....	Volume 1 - 21
3	01	01	0155	Machine Gun Ammunition.....	Volume 1 - 39
4	01	01	0160	Practice Bombs.....	Volume 1 - 49
5	01	01	0180	Cartridge Actuated Devices/Propellant Act Devices.....	Volume 1 - 61
6	01	01	0182	Air Expendable Countermeasures.....	Volume 1 - 75
7	01	01	0194	Jet Assisted Take Off (JATOs).....	Volume 1 - 107
8	01	01	0198	LRLAP 6 inch Long Range Attack Projectile.....	Volume 1 - 117
9	01	01	0250	5 Inch/54 Gun Ammunition.....	Volume 1 - 125
10	01	01	0266	Intermediate Caliber Gun Ammo.....	Volume 1 - 137
11	01	01	0270	Other Ship Gun Ammunition.....	Volume 1 - 147
12	01	01	0335	Small Arms & Lndg Party Ammo.....	Volume 1 - 171
13	01	01	0340	Pyrotechnic and Demolition.....	Volume 1 - 207
14	01	01	0400	Ammunition less than \$5 million.....	Volume 1 - 225

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Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	BA	BSA	Line Item Number	Line Item Title	Page
15	02	01	1000	Small Arms Ammunition.....	Volume 2 - 1
16	02	01	1030	Linear Charges, All Types.....	Volume 2 - 17
17	02	01	1050	40 MM, All Types.....	Volume 2 - 23
18	02	01	1083	60 MM, All Types.....	Volume 2 - 33
19	02	01	1091	81 MM, All Types.....	Volume 2 - 41
20	02	01	1121	120 MM, All Types.....	Volume 2 - 51
21	02	01	1388	CTG 25 MM, All Types.....	Volume 2 - 61
22	02	01	1468	Grenades, All Types.....	Volume 2 - 65
23	02	01	1471	Rockets, All Types.....	Volume 2 - 83
24	02	01	1473	Artillery, All Types.....	Volume 2 - 93
25	02	01	1500	Demolition Munitions, All Types.....	Volume 2 - 113
26	02	01	1625	Fuze, All Types.....	Volume 2 - 119
27	02	01	1628	Non Lethals.....	Volume 2 - 129
28	02	01	1630	Ammo Modernization.....	Volume 2 - 135
29	02	01	1660	Items less than \$5 million.....	Volume 2 - 139

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Master Line Item Table of Contents (Alphabetically by Line Item Title)

Line Item Title	Line Item Number	Line #	BA	BSA	Page
120 MM, All Types	1121	20	02	01.....	Volume 2 - 51
40 MM, All Types	1050	17	02	01.....	Volume 2 - 23
5 Inch/54 Gun Ammunition	0250	9	01	01.....	Volume 1 - 125
60 MM, All Types	1083	18	02	01.....	Volume 2 - 33
81 MM, All Types	1091	19	02	01.....	Volume 2 - 41
Air Expendable Countermeasures	0182	6	01	01.....	Volume 1 - 75
Airborne Rockets, All Types	0151	2	01	01.....	Volume 1 - 21
Ammo Modernization	1630	28	02	01.....	Volume 2 - 135
Ammunition less than \$5 million	0400	14	01	01.....	Volume 1 - 225
Artillery, All Types	1473	24	02	01.....	Volume 2 - 93
CTG 25 MM, All Types	1388	21	02	01.....	Volume 2 - 61
Cartridge Actuated Devices/Propellant Act Devices	0180	5	01	01.....	Volume 1 - 61
Demolition Munitions, All Types	1500	25	02	01.....	Volume 2 - 113
Fuze, All Types	1625	26	02	01.....	Volume 2 - 119
General Purpose Bombs	0145	1	01	01.....	Volume 1 - 1
Grenades, All Types	1468	22	02	01.....	Volume 2 - 65
Intermediate Caliber Gun Ammo	0266	10	01	01.....	Volume 1 - 137

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
Items less than \$5 million	1660	29	02	01.....	Volume 2 - 139
Jet Assisted Take Off (JATOs)	0194	7	01	01.....	Volume 1 - 107
LRLAP 6 inch Long Range Attack Projectile	0198	8	01	01.....	Volume 1 - 117
Linear Charges, All Types	1030	16	02	01.....	Volume 2 - 17
Machine Gun Ammunition	0155	3	01	01.....	Volume 1 - 39
Non Lethals	1628	27	02	01.....	Volume 2 - 129
Other Ship Gun Ammunition	0270	11	01	01.....	Volume 1 - 147
Practice Bombs	0160	4	01	01.....	Volume 1 - 49
Pyrotechnic and Demolition	0340	13	01	01.....	Volume 1 - 207
Rockets, All Types	1471	23	02	01.....	Volume 2 - 83
Small Arms & Lndg Party Ammo	0335	12	01	01.....	Volume 1 - 171
Small Arms Ammunition	1000	15	02	01.....	Volume 2 - 1

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Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	BA	BSA	Line Item Number	Line Item Title	Page
15	02	01	1000	Small Arms Ammunition.....	Volume 2 - 1
16	02	01	1030	Linear Charges, All Types.....	Volume 2 - 17
17	02	01	1050	40 MM, All Types.....	Volume 2 - 23
18	02	01	1083	60 MM, All Types.....	Volume 2 - 33
19	02	01	1091	81 MM, All Types.....	Volume 2 - 41
20	02	01	1121	120 MM, All Types.....	Volume 2 - 51
21	02	01	1388	CTG 25 MM, All Types.....	Volume 2 - 61
22	02	01	1468	Grenades, All Types.....	Volume 2 - 65
23	02	01	1471	Rockets, All Types.....	Volume 2 - 83
24	02	01	1473	Artillery, All Types.....	Volume 2 - 93
25	02	01	1500	Demolition Munitions, All Types.....	Volume 2 - 113
26	02	01	1625	Fuze, All Types.....	Volume 2 - 119
27	02	01	1628	Non Lethals.....	Volume 2 - 129
28	02	01	1630	Ammo Modernization.....	Volume 2 - 135
29	02	01	1660	Items less than \$5 million.....	Volume 2 - 139

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Line Item Table of Contents (Alphabetically by Line Item Title)

Line Item Title	Line Item Number	Line #	BA	BSA	Page
120 MM, All Types	1121	20	02	01.....	Volume 2 - 51
40 MM, All Types	1050	17	02	01.....	Volume 2 - 23
60 MM, All Types	1083	18	02	01.....	Volume 2 - 33
81 MM, All Types	1091	19	02	01.....	Volume 2 - 41
Ammo Modernization	1630	28	02	01.....	Volume 2 - 135
Artillery, All Types	1473	24	02	01.....	Volume 2 - 93
CTG 25 MM, All Types	1388	21	02	01.....	Volume 2 - 61
Demolition Munitions, All Types	1500	25	02	01.....	Volume 2 - 113
Fuze, All Types	1625	26	02	01.....	Volume 2 - 119
Grenades, All Types	1468	22	02	01.....	Volume 2 - 65
Items less than \$5 million	1660	29	02	01.....	Volume 2 - 139
Linear Charges, All Types	1030	16	02	01.....	Volume 2 - 17
Non Lethals	1628	27	02	01.....	Volume 2 - 129
Rockets, All Types	1471	23	02	01.....	Volume 2 - 83
Small Arms Ammunition	1000	15	02	01.....	Volume 2 - 1

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	274.565	28.254	41.183	46.848	-	46.848	52.054	47.549	18.063	18.346	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	274.565	28.254	41.183	46.848	-	46.848	52.054	47.549	18.063	18.346	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	274.565	28.254	41.183	46.848	-	46.848	52.054	47.549	18.063	18.346	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Small Arms Ammunition consists of a family of 9mm, 5.56mm, 7.62mm, 12 gauge, caliber .45 and .50 munitions. 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 calibers weapons. A small arms cartridge is an assembly consisting of a cartridge case, a primer, a quantity of propellant, and a bullet.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition					P-1 Line Item Number / Title: 1000 / Small Arms Ammunition			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
Small Arms Ammunition	P-40a, P-5a, P-21		- / 274.565	- / 28.254	- / 41.183	- / 46.848	- / -	- / 46.848
Total Gross/Weapon System Cost			- / 274.565	- / 28.254	- / 41.183	- / 46.848	- / -	- / 46.848
*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 add due to rounding.								
<p>Justification: FY2016 Base Appropriation Request \$46.848M: Funding will replenish munitions projected to be expended by Marine forces during training, preparation and rehearsals for combat engagements. Increase in funds from FY15 to FY16 addresses inventory shortfalls within Total Munitions Requirement (TMR) objectives. The procurement will include 5.56mm NATO Ball M855 10/Clip, 7.62mm Ball Linked, 9mm Ball M882, the Caliber .45 Ball M1911 Match, the Caliber .50 Ball M2/M33 Single Round, the Caliber .50 4 API M8/1 API-T M20 Linked, the 5.56mm Moly Coated Match Round, the 5.56mm FX Blue Marking Linked, the 5.56mm FX Red Marking Linked, the 5.56mm FX Orange Marking Single Round, the 5.56mm FX Red Marking Single Round, and the 9mm Blank Single Round.</p> <p>FY2015 Base Appropriation \$31.708M: Funding replenishes munitions projected to be expended by Marine forces during training, preparation and rehearsals for combat engagements. Increase in funds from FY14 to FY15 is to procure 5.56mm Special Effects Small Arms Marking System (SESAMS) Family of munitions, the next generation 5.56mm ammunition, and address inventory shortfalls within Total Munitions Requirement (TMR) objectives.</p> <p>FY2014 Base Appropriation \$14.793M: Funding replenished munitions expended by Marine forces during training, preparation and rehearsals for combat engagements.</p> <p>OCO: FY2016 Overseas Contingency Operations (OCO) Request: N/A</p> <p>FY2015 Overseas Contingency Operations (OCO)\$9.475M: FY15 funding replenishes items expended by Marine Forces during preparation, rehearsals, and combat engagements utilizing established tactics, techniques and procedures in support of the Total Munitions Requirement (TMR). This funding procures the 5.56mm NATO Ball M855 10/Clip and the Caliber .50 4 API M8/1 API-T M20 Linked and supports Operation Enduring Freedom (OEF)/Operation Freedom's Sentinel (OFS).</p> <p>FY2014 Overseas Contingency Operations (OCO) \$13.461M: The FY14 funding replenished items expended by Marine Forces during preparation, rehearsals, and combat engagements utilizing established tactics, techniques and procedures in support of the TMR. This funding procured the 5.56mm Blank M200 Single Round, the 9mm Ball M882, the Caliber .45 Ball M1911 Match; the Caliber .50 Ball M2/M33 Single Round, the Caliber .50 4 API M8/1 API-T M20 Linked. The funding supported Operation Enduring Freedom (OEF).</p>								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1								P-1 Line Item Number / Title: 1000 / Small Arms Ammunition							Aggregated Items Title: Small Arms Ammunition				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) A059 CTG, 5.56MM BALL																				
1.1) A059 LOAD, ASSEMBLE AND PACK (LAP) (1) ^(†)	A		0.32	237,257K	76.047	-	-	-	0.23	66,189,570	15.232	0.24	92,447,000	22.187	-	-	-	0.24	92,447,000	22.187
1.2) A059 LOAD, ASSEMBLE AND PACK (LAP) (2) ^{(1)(†)}	A		0.32	7,372,389	2.359	-	-	-	-	-	-	0.24	14,002,204	3.292	-	-	-	0.24	14,002,204	3.292
1.3) A059 BOX METAL M2A1 (EA) (1)	A		8.88	541,991	4.813	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) A059 BOX METAL M2A1 (EA) (2) ^(†)	A		9.00	2,000	0.018	-	-	-	13.21	80,090	1.058	12.49	124,290	1.552	-	-	-	12.49	124,290	1.552
1.5) A059 PRODUCTION ENGINEERING			-	-	1.840	-	-	-	-	-	0.179	-	-	0.605	-	-	-	-	-	0.605
1.6) A059 QUALITY ASSURANCE			-	-	0.050	-	-	-	-	-	0.012	-	-	0.007	-	-	-	-	-	0.007
1.7) A059 ACCEPTANCE TESTING			-	-	0.097	-	-	-	-	-	0.038	-	-	-	-	-	-	-	-	-
Subtotal: 1) A059 CTG, 5.56MM BALL			-	-	85.224	-	-	-	-	-	16.519	-	-	27.643	-	-	-	-	-	27.643
2) A064 CTG, 5.56MM 4 & 1 LINKED																				
2.1) A064 COMPLETE ROUND ^(†)	A		0.33	96,647,844	31.697	-	-	-	0.53	1,781,642	0.944	-	-	-	-	-	-	-	-	-
2.2) A064 PRODUCTION ENGINEERING			-	-	0.874	-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-
2.3) A064 QUALITY ASSURANCE			-	-	0.020	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-
2.4) A064 ACCEPTANCE TESTING			-	-	0.017	-	-	-	-	-	0.026	-	-	-	-	-	-	-	-	-
Subtotal: 2) A064 CTG, 5.56MM 4 & 1 LINKED			-	-	32.608	-	-	-	-	-	0.997	-	-	-	-	-	-	-	-	-
3) A075 CTG, 5.56MM BLANK LINKED																				
3.1) A075 COMPLETE ROUND ^(†)	A		0.36	11,068,043	4.022	-	-	-	0.21	4,426,004	0.936	-	-	-	-	-	-	-	-	-
3.2) A075 PRODUCTION ENGINEERING			-	-	0.041	-	-	-	-	-	0.061	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1								P-1 Line Item Number / Title: 1000 / Small Arms Ammunition								Aggregated Items Title: Small Arms Ammunition			

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.3) A075 PRODUCTION VERIFICATION TEST			-	-	0.412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 3) A075 CTG, 5.56MM BLANK LINKED</i>			-	-	4.475	-	-	-	-	-	0.997	-	-	-	-	-	-	-	-	-
4) A080 CTG, 5.56MM BLANK																				
4.1) A080 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		0.24	23,460,249	5.609	0.13	19,894,109	2.518	0.14	5,935,455	0.838	-	-	-	-	-	-	-	-	-
4.2) A080 BOX METAL M2A1 (EA) (1) ^(†)	A		9.50	20,832	0.198	10.87	17,706	0.192	13.21	5,283	0.070	-	-	-	-	-	-	-	-	-
4.3) A080 PRODUCTION ENGINEERING			-	-	0.064	-	-	0.102	-	-	0.084	-	-	-	-	-	-	-	-	-
4.4) A080 QUALITY ASSURANCE			-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5) A080 ACCEPTANCE TESTING			-	-	0.007	-	-	-	-	-	0.005	-	-	-	-	-	-	-	-	-
<i>Subtotal: 4) A080 CTG, 5.56MM BLANK</i>			-	-	5.879	-	-	2.812	-	-	0.997	-	-	-	-	-	-	-	-	-
5) A112 CTG, 7.62MM BLANK M82																				
5.1) A112 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		-	-	-	0.28	326,720	0.091	-	-	-	-	-	-	-	-	-	-	-	-
5.2) A112 BOX METAL M2A2 ^(†)	A		-	-	-	10.87	549	0.006	-	-	-	-	-	-	-	-	-	-	-	-
5.3) A112 PRODUCTION ENGINEERING			-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 5) A112 CTG, 7.62MM BLANK M82</i>			-	-	0.000	-	-	0.099	-	-	-	-	-	-	-	-	-	-	-	-
6) A131 CTG, 7.62MM 4 & 1 LINKED																				
6.1) A131 COMPLETE ROUND ^(†)	A		0.68	40,850,098	27.868	0.51	5,767,864	2.922	0.55	1,723,124	0.952	-	-	-	-	-	-	-	-	-
6.2) A131 PRODUCTION ENGINEERING			-	-	1.100	-	-	-	-	-	0.034	-	-	-	-	-	-	-	-	-
6.3) A131 QUALITY ASSURANCE			-	-	0.019	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1000 / Small Arms Ammunition									Aggregated Items Title: Small Arms Ammunition				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.4) A131 ACCEPTANCE TESTING			-	-	0.221	-	-	-	-	-	0.010	-	-	-	-	-	-	-	-	-
<i>Subtotal: 6) A131 CTG, 7.62MM 4 & 1 LINKED</i>			-	-	29.208	-	-	2.922	-	-	0.997	-	-	-	-	-	-	-	-	-
7) A143 CTG, 7.62MM BALL LINKED																				
7.1) A143 COMPLETE ROUND ^(†)	A		0.52	31,106,961	16.040	-	-	-	-	-	-	0.52	1,830,022	0.958	-	-	-	0.52	1,830,022	0.958
7.2) A143 PRODUCTION ENGINEERING			-	-	0.305	-	-	-	-	-	-	-	-	0.041	-	-	-	-	-	0.041
7.3) A143 ACCEPTANCE TESTING			-	-	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.4) A143 QUALITY ASSURANCE	A		-	-	0.002	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	0.001
<i>Subtotal: 7) A143 CTG, 7.62MM BALL LINKED</i>			-	-	16.363	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
8) A159 CTG 7.62MM DUMMY																				
8.1) A159 LOAD, ASSEMBLE AND PACK (LAP) ^{(2)(†)}	A		-	-	-	0.69	137,226	0.095	-	-	-	-	-	-	-	-	-	-	-	-
8.2) A159 BOX METAL M2A2 ^(†)	A		-	-	-	10.87	305	0.003	-	-	-	-	-	-	-	-	-	-	-	-
8.3) A159 PRODUCTION ENGINEERING			-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 8) A159 CTG 7.62MM DUMMY</i>			-	-	0.000	-	-	0.099	-	-	-	-	-	-	-	-	-	-	-	-
9) A363 CTG, 9MM BALL																				
9.1) A363 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		0.16	55,335,275	8.687	0.15	15,893,102	2.424	-	-	-	0.16	1,474,841	0.243	-	-	-	0.16	1,474,841	0.243
9.2) A363 BOX METAL M2A1 (EA) (1)	A		9.50	35,037	0.333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.3) A363 BOX METAL M2A2 ^(†)	A		9.95	21,000	0.209	10.87	16,052	0.174	-	-	-	12.49	1,469	0.018	-	-	-	12.49	1,469	0.018
9.4) A363 PRODUCTION ENGINEERING			-	-	0.371	-	-	0.117	-	-	-	-	-	0.026	-	-	-	-	-	0.026
9.5) A363 QUALITY ASSURANCE			-	-	0.006	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1000 / Small Arms Ammunition									Aggregated Items Title: Small Arms Ammunition					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
9.6) A363 ACCEPTANCE TESTING	A		-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.7) A363 PRODUCTION QUALIFICATION TEST	A		-	-	-	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	0.001
Subtotal: 9) A363 CTG, 9MM BALL			-	-	9.626	-	-	2.716	-	-	-	-	-	0.288	-	-	-	-	-	0.288
10) A483 CTG CAL .45 MATCH GRADE																				
10.1) A483 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		-	-	-	0.28	804,189	0.223	-	-	-	0.31	368,238	0.114	-	-	-	0.31	368,238	0.114
10.2) A483 BOX METAL M2A2 ^(†)	A		-	-	-	10.87	812	0.009	-	-	-	12.48	362	0.005	-	-	-	12.48	362	0.005
10.3) A483 PRODUCTION ENGINEERING			-	-	-	-	-	0.002	-	-	-	-	-	0.007	-	-	-	-	-	0.007
10.4) A483 QUALITY ASSURANCE			-	-	-	-	-	0.001	-	-	-	-	-	0.002	-	-	-	-	-	0.002
Subtotal: 10) A483 CTG CAL .45 MATCH GRADE			-	-	0.000	-	-	0.235	-	-	-	-	-	0.128	-	-	-	-	-	0.128
11) A552 CTG CAL .50 GRADE AC BALL																				
11.1) A552 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		-	-	-	1.67	1,329,555	2.223	1.89	255,019	0.481	1.88	1,365,877	2.569	-	-	-	1.88	1,365,877	2.569
11.2) A552 BOX METAL M2A2 ^(†)	A		-	-	-	10.87	11,168	0.121	13.21	2,142	0.028	12.49	11,473	0.143	-	-	-	12.49	11,473	0.143
11.3) A552 PRODUCTION ENGINEERING			-	-	-	-	-	0.012	-	-	0.028	-	-	0.137	-	-	-	-	-	0.137
11.4) A552 ACCEPTANCE TESTING	A		-	-	-	-	-	-	-	-	0.039	-	-	-	-	-	-	-	-	-
Subtotal: 11) A552 CTG CAL .50 GRADE AC BALL			-	-	0.000	-	-	2.356	-	-	0.576	-	-	2.849	-	-	-	-	-	2.849
12) A576 CTG, CAL .50 4 & 1 LINKED																				
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	A		2.23	26,047,393	57.964	1.78	6,370,132	11.309	2.00	6,464,552	12.915	1.99	2,197,546	4.381	-	-	-	1.99	2,197,546	4.381
12.2) A576 BOX METAL M2A1 (1)	A		9.43	246,441	2.325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1000 / Small Arms Ammunition									Aggregated Items Title: Small Arms Ammunition				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
12.3) A576 BOX METAL M2A2 ^(t)	A		-	-	-	10.87	64,975	0.706	13.21	65,938	0.871	12.48	22,435	0.280	-	-	-	12.48	22,435	0.280
12.4) A576 PRODUCTION ENGINEERING			-	-	0.871	-	-	0.607	-	-	0.378	-	-	0.232	-	-	-	-	-	0.232
12.5) A576 QUALITY ASSURANCE			-	-	0.016	-	-	0.006	-	-	0.003	-	-	0.001	-	-	-	-	-	0.001
12.6) A576 ACCEPTANCE TESTING			-	-	1.041	-	-	-	-	-	0.103	-	-	0.013	-	-	-	-	-	0.013
Subtotal: 12) A576 CTG, CAL .50 4 & 1 LINKED			-	-	62.217	-	-	12.628	-	-	14.270	-	-	4.907	-	-	-	-	-	4.907
14) AA67 CTG 5.56MM MOLY COATED (77GR)																				
14.1) AA67 COMPLETE ROUND ^(t)	A		-	-	-	-	-	-	-	-	-	0.65	392,308	0.255	-	-	-	0.65	392,308	0.255
Subtotal: 14) AA67 CTG 5.56MM MOLY COATED (77GR)			-	-	0.000	-	-	-	-	-	-	-	-	0.255	-	-	-	-	-	0.255
15) AA91 CTG 5.56MM MK289-0 FX MKG BLUE																				
15.1) AA91 COMPLETE ROUND ^(t)	A		-	-	-	-	-	-	0.59	579,661	0.341	0.61	2,198,361	1.341	-	-	-	0.61	2,198,361	1.341
Subtotal: 15) AA91 CTG 5.56MM MK289-0 FX MKG BLUE			-	-	0.000	-	-	-	-	-	0.341	-	-	1.341	-	-	-	-	-	1.341
16) AA92 CTG, 5.56MM FX RED MKG LKD																				
16.1) AA92 COMPLETE ROUND ^(t)	A		-	-	-	-	-	-	0.59	1,450,847	0.853	0.61	3,042,623	1.856	-	-	-	0.61	3,042,623	1.856
Subtotal: 16) AA92 CTG, 5.56MM FX RED MKG LKD			-	-	0.000	-	-	-	-	-	0.853	-	-	1.856	-	-	-	-	-	1.856
17) AB05 CTG, 5.56MM BLUE MKG SNGL RD																				
17.1) AB05 COMPLETE ROUND ^(t)	A		-	-	-	-	-	-	0.59	4,700,847	2.795	0.61	6,239,344	3.806	-	-	-	0.61	6,239,344	3.806
Subtotal: 17) AB05 CTG, 5.56MM BLUE MKG SNGL RD			-	-	0.000	-	-	-	-	-	2.795	-	-	3.806	-	-	-	-	-	3.806
18) AB06 CTG, 5.56MM FX RED MKG SGL RD																				

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Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1									P-1 Line Item Number / Title: 1000 / Small Arms Ammunition						Aggregated Items Title: Small Arms Ammunition				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
18.1) AB06 COMPLETE ROUND ^(t)	A		-	-	-	-	-	-	0.59	2,877,966	1.692	0.61	4,422,951	2.698	-	-	-	0.61	4,422,951	2.698
<i>Subtotal: 18) AB06 CTG, 5.56MM FX RED MKG SGL RD</i>			-	-	0.000	-	-	-	-	-	1.692	-	-	2.698	-	-	-	-	-	2.698
19) AXX1 CTG, CALIBER .50 REDUCED RANGE 4 BALL/1																				
19.1) AXX1 COMPLETE ROUND ^(t)	A		4.75	842,105	4.000	4.88	677,914	3.305	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 19) AXX1 CTG, CALIBER .50 REDUCED RANGE 4 BALL/1</i>			-	-	4.000	-	-	3.305	-	-	-	-	-	-	-	-	-	-	-	-
20) AXX3 CTG 9MM BLANK SINGLE ROUND																				
20.1) AXX3 COMPLETE ROUND ^(t)	A		-	-	-	2.56	135,545	0.347	2.70	55,058	0.149	2.68	28,731	0.077	-	-	-	2.68	28,731	0.077
<i>Subtotal: 20) AXX3 CTG 9MM BLANK SINGLE ROUND</i>			-	-	0.000	-	-	0.347	-	-	0.149	-	-	0.077	-	-	-	-	-	0.077
21) FDTC FIRST DESTINATION TRANSPORTATION																				
21.1) FDTC FIRST DESTINATION TRANSPORTATION	A		-	-	3.603	-	-	0.735	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 21) FDTC FIRST DESTINATION TRANSPORTATION</i>			-	-	3.603	-	-	0.735	-	-	-	-	-	-	-	-	-	-	-	-
22) PRIOR YEARS CUMULATIVE FUNDING																				
22.1) PRIOR YEARS CUMULATIVE FUNDING	A		-	-	21.362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 22) PRIOR YEARS CUMULATIVE FUNDING</i>			-	-	21.362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	274.565	-	-	28.254	-	-	41.183	-	-	46.848	-	-	-	-	-	46.848

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

Footnotes:

(1) The acquisition strategy of the Single Manager for Conventional Ammunition includes two vendors in order to maintain the Industrial Base.

(2) USMC DoDIC A159, corresponds to Army DoDIC AB47.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					Aggregated Items: Small Arms Ammunition			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) A059 CTG, 5.56MM BALL												
1.1) A059 LOAD, ASSEMBLE AND PACK (LAP) (1) ^(†)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Oct 2015	53,556,860	0.23	Y		
1.1) A059 LOAD, ASSEMBLE AND PACK (LAP) (1) ^(†)	✓	2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Oct 2015	12,632,710	0.23	Y		
1.1) A059 LOAD, ASSEMBLE AND PACK (LAP) (1) ^(†)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2016	Oct 2016	92,447,000	0.24	Y		
1.2) A059 LOAD, ASSEMBLE AND PACK (LAP) (2) ^(†)		2016	UNKNOWN / UNKNOWN	C / FFP	Rock Island Arsenal, IL	Mar 2016	Mar 2017	14,002,204	0.24	Y		
1.4) A059 BOX METAL M2A1 (EA) (2)		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	64,804	13.21	Y		
1.4) A059 BOX METAL M2A1 (EA) (2)	✓	2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	15,286	13.21	Y		
1.4) A059 BOX METAL M2A1 (EA) (2)		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2016	Jul 2016	124,290	12.49	Y		
2) A064 CTG, 5.56MM 4 & 1 LINKED												
2.1) A064 COMPLETE ROUND		2015	OLIN WINCHESTER / EAST ALTON, IL	C / FFP	Rock Island Arsenal, IL	Mar 2015	May 2015	1,781,642	0.53	Y		
3) A075 CTG, 5.56MM BLANK LINKED												
3.1) A075 COMPLETE ROUND		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Oct 2015	4,426,004	0.21	Y		
4) A080 CTG, 5.56MM BLANK												
4.1) A080 LOAD, ASSEMBLE AND PACK (LAP)	✓	2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2014	Jul 2014	19,894,109	0.13	Y		
4.1) A080 LOAD, ASSEMBLE AND PACK (LAP)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Oct 2015	5,935,455	0.14	Y		
4.2) A080 BOX METAL M2A1 (EA) (1)	✓	2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	17,706	10.87	Y		
4.2) A080 BOX METAL M2A1 (EA) (1)		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	5,283	13.21	Y		
5) A112 CTG, 7.62MM BLANK M82												
5.1) A112 LOAD, ASSEMBLE AND PACK (LAP)		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2014	Dec 2014	326,720	0.28	Y		
5.2) A112 BOX METAL M2A2		2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	549	10.87	Y		
6) A131 CTG, 7.62MM 4 & 1 LINKED												
6.1) A131 COMPLETE ROUND		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2014	Jan 2015	5,767,864	0.51	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					Aggregated Items: Small Arms Ammunition			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
6.1) A131 COMPLETE ROUND		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Oct 2015	1,723,124	0.55	Y		
7) A143 CTG, 7.62MM BALL LINKED												
7.1) A143 COMPLETE ROUND		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2016	Oct 2016	1,830,022	0.52	Y		
8) A159 CTG 7.62MM DUMMY												
8.1) A159 LOAD, ASSEMBLE AND PACK (LAP) ⁽²⁾		2014 (3)	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Sep 2015	137,226	0.69	Y		
8.2) A159 BOX METAL M2A2		2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	305	10.87	Y		
9) A363 CTG, 9MM BALL												
9.1) A363 LOAD, ASSEMBLE AND PACK (LAP)		2013	OLIN CORPORATION / ILLINOIS	C / FFP	Rock Island Arsenal, IL	Aug 2013	May 2014	19,047,456	0.17	Y		
9.1) A363 LOAD, ASSEMBLE AND PACK (LAP)	✓	2013	OLIN CORPORATION / ILLINOIS	C / FFP	Rock Island Arsenal, IL	Aug 2013	May 2014	119,975	0.17	Y		
9.1) A363 LOAD, ASSEMBLE AND PACK (LAP)	✓	2014	OLIN CORPORATION / ILLINOIS	C / FFP	Rock Island Arsenal, IL	Mar 2014	Feb 2015	15,893,102	0.15	Y		
9.1) A363 LOAD, ASSEMBLE AND PACK (LAP)		2016	UNKNOWN / UNKNOWN	C / FFP	Rock Island Arsenal, IL	Apr 2016	Nov 2016	1,474,841	0.16	Y		
9.3) A363 BOX METAL M2A2	✓	2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Jul 2014	Dec 2014	16,052	10.87	Y		
9.3) A363 BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2016	May 2016	1,469	12.49	Y		
10) A483 CTG CAL .45 MATCH GRADE												
10.1) A483 LOAD, ASSEMBLE AND PACK (LAP)		2014	OLIN WINCHESTER / EAST ALTON, IL	C / FFP	Rock Island Arsenal, IL	Mar 2014	Oct 2014	502,293	0.28	Y		
10.1) A483 LOAD, ASSEMBLE AND PACK (LAP)	✓	2014	OLIN WINCHESTER / EAST ALTON, IL	C / FFP	Rock Island Arsenal, IL	Mar 2014	Oct 2014	301,896	0.28	Y		
10.1) A483 LOAD, ASSEMBLE AND PACK (LAP)		2016	UNKNOWN / UNKNOWN	C / FFP	Rock Island Arsenal, IL	May 2016	Jul 2016	368,238	0.31	Y		
10.2) A483 BOX METAL M2A2		2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	507	10.87	Y		
10.2) A483 BOX METAL M2A2	✓	2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	305	10.87	Y		
10.2) A483 BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2016	Jul 2016	362	12.48	Y		
11) A552 CTG CAL .50 GRADE AC BALL												
11.1) A552 LOAD, ASSEMBLE AND PACK (LAP)		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2014	Nov 2014	857,662	1.67	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					Aggregated Items: Small Arms Ammunition			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
11.1) A552 LOAD, ASSEMBLE AND PACK (LAP)	✓	2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2014	Nov 2014	471,893	1.67	Y		
11.1) A552 LOAD, ASSEMBLE AND PACK (LAP)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Oct 2015	255,019	1.89	Y		
11.1) A552 LOAD, ASSEMBLE AND PACK (LAP)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2016	Oct 2016	1,365,877	1.88	Y		
11.2) A552 BOX METAL M2A2		2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	7,204	10.87	Y		
11.2) A552 BOX METAL M2A2	✓	2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	3,964	10.87	Y		
11.2) A552 BOX METAL M2A2		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	2,142	13.21	Y		
11.2) A552 BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2016	Jul 2016	11,473	12.49	Y		
12) A576 CTG, CAL .50 4 & 1 LINKED												
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		2013	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Aug 2013	Mar 2014	7,325,186	1.83	Y		
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2014	May 2015	2,651,296	1.78	Y		
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	✓	2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2014	May 2015	3,718,836	1.78	Y		
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Oct 2015	3,479,446	2.00	Y		
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	✓	2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Oct 2015	2,985,106	2.00	Y		
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2016	Oct 2016	2,197,546	1.99	Y		
12.3) A576 BOX METAL M2A2		2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	27,043	10.87	Y		
12.3) A576 BOX METAL M2A2	✓	2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	37,932	10.87	Y		
12.3) A576 BOX METAL M2A2		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	35,490	13.21	Y		
12.3) A576 BOX METAL M2A2	✓	2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	30,448	13.21	Y		
12.3) A576 BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2016	Jul 2016	22,435	12.48	Y		
14) AA67 CTG 5.56MM MOLY COATED (77GR)												

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					Aggregated Items: Small Arms Ammunition				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
14.1) AA67 COMPLETE ROUND		2016	BLACK HILLS AMMUNITION / RAPID CITY, SD	C / FFP	NSWC CD, CRANE, IN	Mar 2016	Oct 2016	392,308	0.65	Y		
15) AA91 CTG 5.56MM MK289-0 FX MKG BLUE												
15.1) AA91 COMPLETE ROUND		2015	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Dec 2015	Jun 2016	579,661	0.59	Y		
15.1) AA91 COMPLETE ROUND		2016	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Mar 2016	Jun 2016	2,198,361	0.61	Y		
16) AA92 CTG, 5.56MM FX RED MKG LKD												
16.1) AA92 COMPLETE ROUND		2015	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Dec 2015	Jun 2016	1,450,847	0.59	Y		
16.1) AA92 COMPLETE ROUND		2016	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Mar 2016	Sep 2016	3,042,623	0.61	Y		
17) AB05 CTG, 5.56MM BLUE MKG SNGL RD												
17.1) AB05 COMPLETE ROUND		2015	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Dec 2015	Jun 2016	4,700,847	0.59	Y		
17.1) AB05 COMPLETE ROUND		2016	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Mar 2016	Sep 2016	6,239,344	0.61	Y		
18) AB06 CTG, 5.56MM FX RED MKG SGL RD												
18.1) AB06 COMPLETE ROUND		2015	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Dec 2015	Jun 2016	2,877,966	0.59	Y		
18.1) AB06 COMPLETE ROUND		2016	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Mar 2016	Sep 2016	4,422,951	0.61	Y		
19) AXX1 CTG, CALIBER .50 REDUCED RANGE 4 BALL/1												
19.1) AXX1 COMPLETE ROUND		2014	GENERAL DYNAMICS / MONTREAL, CANADA	C / FFP	NSWC CD, CRANE, IN	Jan 2015	Jul 2015	677,914	4.88	Y		
20) AXX3 CTG 9MM BLANK SINGLE ROUND												
20.1) AXX3 COMPLETE ROUND		2014 (4)	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Dec 2015	Jun 2016	135,545	2.56	Y		
20.1) AXX3 COMPLETE ROUND		2015	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Dec 2015	Jun 2016	55,058	2.70	Y		
20.1) AXX3 COMPLETE ROUND		2016	TBD / TBD	SS / FFP	MCSC, QUANTICO, VA	Mar 2016	Sep 2016	28,731	2.68	Y		
(†) indicates the presence of a P-21												
Footnotes:												
(3) This corresponds to Army DoDIC AB47.												
(4) The AXX3 COMPLETE ROUND FY14 contract delay was caused by the additional time required to put together sole source contract documentation. The FY14 and FY15 contracts will award together.												

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1000 / Small Arms Ammunition													Aggregated Items: Small Arms Ammunition											
Items (Units in Millions (* = < 500 units))							Fiscal Year 2013													Fiscal Year 2014														
O C O	M F R #	FY	SERVICE	PROC QTY	ACCE PT 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	B A L			
1) A059 CTG, 5.56MM BALL																																		
1.1) A059 LOAD, ASSEMBLE AND PACK (LAP) (1)																																		
Prior Years Deliveries: 237257491																																		
	1	2015	NAVY	53.557	-	53.557																									53.557			
✓	1	2015	NAVY	12.633	-	12.633																									12.633			
	1	2016	NAVY	92.447	-	92.447																									92.447			
12) A576 CTG, CAL .50 4 & 1 LINKED																																		
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP)																																		
Prior Years Deliveries: 18722207																																		
	2	2013	NAVY	7.325	-	7.325											A -	-	-	-	-	-	-	-	.610	.610	.610	.610	.610	.610	3.052			
	2	2014	NAVY	2.651	-	2.651																						A -	-	-	-	2.651		
✓	2	2014	NAVY	3.719	-	3.719																						A -	-	-	-	3.719		
	2	2015	NAVY	3.479	-	3.479																									3.479			
✓	2	2015	NAVY	2.985	-	2.985																									2.985			
	2	2016	NAVY	2.198	-	2.198																									2.198			
							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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1000 / Small Arms Ammunition													Aggregated Items: Small Arms Ammunition														
Items (Units in Millions (* = < 500 units))							Fiscal Year 2015													Fiscal Year 2016																	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015																		Calendar Year 2016												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
1) A059 CTG, 5.56MM BALL																																					
1.1) A059 LOAD, ASSEMBLE AND PACK (LAP) (1)																																					
Prior Years Deliveries: 237257491																																					
		1	2015	NAVY	53.557	-	53.557							A -	-	-	-	-	-	-	4.463	4.463	4.463	4.463	4.463	4.463	4.463	4.463	4.463	4.463	4.463	4.463	-				
✓		1	2015	NAVY	12.633	-	12.633							A -	-	-	-	-	-	-	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.053	-				
		1	2016	NAVY	92.447	-	92.447																			A -	-	-	-	-	-	-	92.447				
12) A576 CTG, CAL .50 4 & 1 LINKED																																					
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP)																																					
Prior Years Deliveries: 18722207																																					
		2	2013	NAVY	7.325	4.273	3.052	.610	.610	.610	.610	.610																			-						
		2	2014	NAVY	2.651	-	2.651	-	-	-	-	-	-	.988	.606	-	-	1.058																-			
✓		2	2014	NAVY	3.719	-	3.719	-	-	-	-	-	-	.930	1.673	1.116																		-			
		2	2015	NAVY	3.479	-	3.479						A -	-	-	-	-	-	-	.348	-	-	.348	.348	.348	.348	.348	.348	.348	.348	.348	.348	-				
✓		2	2015	NAVY	2.985	-	2.985						A -	-	-	-	-	-	-	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	-					
		2	2016	NAVY	2.198	-	2.198																			A -	-	-	-	-	-	-	2.198				
								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	B A L					

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015													
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1000 / Small Arms Ammunition										Aggregated Items: Small Arms Ammunition													
Items (Units in Millions (* = < 500 units))								Fiscal Year 2017												Fiscal Year 2018													
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	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	B A L		
1) A059 CTG, 5.56MM BALL																																	
1.1) A059 LOAD, ASSEMBLE AND PACK (LAP) (1)																																	
Prior Years Deliveries: 237257491																																	
	1	2015	NAVY	53.557	53.557	-																										-	
✓	1	2015	NAVY	12.633	12.633	-																										-	
	1	2016	NAVY	92.447	-	92.447	7.704	7.704	7.704	7.704	7.704	7.704	7.704	7.704	7.704	7.704	7.704														-		
12) A576 CTG, CAL .50 4 & 1 LINKED																																	
12.1) A576 LOAD, ASSEMBLE, AND PACK (LAP)																																	
Prior Years Deliveries: 18722207																																	
	2	2013	NAVY	7.325	7.325	-																										-	
	2	2014	NAVY	2.651	2.651	-																										-	
✓	2	2014	NAVY	3.719	3.719	-																										-	
	2	2015	NAVY	3.479	3.479	-																										-	
✓	2	2015	NAVY	2.985	2.985	-																										-	
	2	2016	NAVY	2.198	-	2.198	.183	.183	.183	.183	.183	.183	.183	.183	.183	.183	.183														-		
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					Aggregated Items: Small Arms Ammunition				
		Production Rates (Each / Year)			Procurement Leadtime (Months)									
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder					
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1		
1	ALLIANT TECH DBA (LCAAP) - INDEPENDENCE, MO	3,360,000	38,800,000	350,000,000	6	6	6	12	6	6	7	13		
2	ALLIANT TECH DBA (LCAAP) - INDEPENDENCE, MO	200,000	1,150,000	10,000,000	-	6	12	18	6	6	7	13		
"A" in the Delivery Schedule indicates the Contract Award Date. Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).														

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
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: 1030 / Linear Charges, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	109.267	9.398	9.535	0.350	-	0.350	-	20.020	24.621	33.193	-	206.384
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	109.267	9.398	9.535	0.350	-	0.350	-	20.020	24.621	33.193	-	206.384
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	109.267	9.398	9.535	0.350	-	0.350	-	20.020	24.621	33.193	-	206.384
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
 Description: The Linear Charge Family consists of demolition systems capable of defeating the enemy's counter mobility efforts. The Mine Clearing Linear Charge (MICLIC) provides a clear path, up to 15 yards wide by 109 yards long, for combat vehicles during minefield and barrier-breaching operations. They are effective against single-impulse, pressure-type, non-blast-hardened anti-tank mines and mechanically actuated anti-personnel mines. The Mk22, a 5-inch rocket motor, is used to propel the MICLIC over the minefield. The Anti-Personnel Obstacle Breaching System (APOBS) provides the Marine Corps with an improved, lightweight, man-portable capability to quickly breach anti-personnel minefields and wire obstacles. The APOBS requires less than two minutes to set up and deploy and is launched from a standoff of about 35 yards in front of the leading edge of the obstacle or minefield. The system is designed to clear a footpath through anti-personnel minefields and wire obstacles up to 45 yards long and 2 yards wide during combat operations. The APOBS is a self-contained, one-shot expendable system that is transported in two backpacks, each weighing approximately 60 pounds, and deployed by a two-man team. APOBS uses the Mk126 Mod 1 rocket motor to propel a line charge over the obstacle, after which the line charge will detonate following an eight-second delay, clearing the obstacle or anti-personnel minefield.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
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: 1030 / Linear Charges, All Types		
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / Linear Charges, All Types	P-5, P-5a		- / 109.267	- / 9.398	- / 9.535	- / 0.350	- / -
Total Gross/Weapon System Cost			- / 109.267	- / 9.398	- / 9.535	- / 0.350	- / 0.350
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.</p>							
<p>Justification: FY 2016 Base Appropriation Request: \$0.350M. Funding will support renovation efforts for linear charge assets in the inventory. The decrease in funding from FY15 is based on projected stock quantities meeting the Total Munitions Requirement (TMR) in FY16.</p> <p>FY 2015 Base Appropriation: \$0.692M. Supports the linear demo high explosive charge. This item is in the training and combat requirements that have been identified in the Total Munitions Requirement (TMR).</p> <p>FY 2014 Base Appropriation: \$6.088M. Supported the linear demo high explosive charge and the anti-personnel obstacle breaching system (APOBS). All of these items were in the training and combat requirements which were identified in the Total Munitions Requirement (TMR).</p> <p>OCO: FY 2016 Overseas Contingency Operations (OCO) Request: N/A</p> <p>FY 2015 Overseas Contingency Operations (OCO): \$8.843M. Procures the linear demo high explosive charge that has been expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY15 funding supports Operation Enduring Freedom(OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY 2014 Overseas Contingency Operations (OCO) Request: \$3.310M. Supported the anti-personnel obstacle breaching system (APOBS) that were expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY14 funding supported Operation Enduring Freedom - Afghanistan (OEF-A).</p>							

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1030 / Linear Charges, All Types						Item Number / Title [DODIC]: 1 / Linear Charges, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				109.267		9.398		9.535		0.350		-		0.350				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				109.267		9.398		9.535		0.350		-		0.350				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				109.267		9.398		9.535		0.350		-		0.350				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - M913 CHG DEMO LINEAR M58 SERIES A4 Cost																		
Recurring Cost																		
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP) ^(†)	21,066.75	764	16.095	-	-	-	27,125.77	326	8.843	-	-	-	-	-	-	-	-	-
1.1.2) M913 COMP C-4 CLASS 3	16.37	1,348,096	22.064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) M913 FUZE ELECTRIC M113A4 ^(†)	1,664.12	524	0.872	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) M913 FUZE ELECTRIC M113A4 GFM	2,541.67	240	0.610	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) M913 PRODUCTION SUPPORT	-	-	0.546	-	-	0.939	-	-	0.692	-	-	0.350	-	-	-	-	-	0.350
1.1.6) QUALITY ASSURANCE	-	-	0.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.7) M913 GOVERNMENT FURNISHED MATERIAL (GFM)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	40.196	-	-	0.939	-	-	9.535	-	-	0.350	-	-	-	-	-	0.350
Subtotal: Hardware - M913 CHG DEMO LINEAR M58 SERIES A4 Cost	-	-	40.196	-	-	0.939	-	-	9.535	-	-	0.350	-	-	-	-	-	0.350
Hardware - MN79 ANTI-PERS OBSTACLE BREACHING SYSTEM Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1030 / Linear Charges, All Types						Item Number / Title [DODIC]: 1 / Linear Charges, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
2.1.1) MN79 COMPLETE ROUND ^(†)	9,707.01	6,949	67.454	17,454.54	481	8.396	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) MN79 PRODUCTION SUPPORT	-	-	0.426	-	-	0.063	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	67.880	-	-	8.459	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - MN79 ANTI-PERS OBSTACLE BREACHING SYSTEM Cost	-	-	67.880	-	-	8.459	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
3.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	1.191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	1.191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost	-	-	1.191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	109.267	-	-	9.398	-	-	9.535	-	-	0.350	-	-	-	-	-	0.350
(†) indicates the presence of a P-5a																		

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1030 / Linear Charges, All Types					Item Number / Title [DODIC]: 1 / Linear Charges, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP)		2013	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL	Mar 2013	Sep 2014	108	22,490.12	Y		
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP)	✓	2013	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL	Mar 2013	Sep 2014	107	22,490.12	Y		
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP)	✓	2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	TBD	ROCK ISLAND ARSENAL	May 2015	May 2016	326	27,125.77	Y		
1.1.3) M913 FUZE ELECTRIC M113A4		2013	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE	MIPR	ROCK ISLAND ARSENAL	May 2013	Jul 2015	108	2,856.00	Y		
1.1.3) M913 FUZE ELECTRIC M113A4	✓	2013	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE	MIPR	ROCK ISLAND ARSENAL	May 2013	Jul 2015	107	2,856.00	Y		
2.1.1) MN79 COMPLETE ROUND		2012	CHEMRING ORDNANCE, INC. / PERRY,FL.	C / FFP	ROCK ISLAND ARSENAL	Aug 2012	Aug 2014	1,814	8,705.00	Y		
2.1.1) MN79 COMPLETE ROUND		2013	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND ARSENAL	Sep 2013	Sep 2014	1,388	9,344.65	Y		
2.1.1) MN79 COMPLETE ROUND	✓	2013	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND ARSENAL	Sep 2013	Sep 2014	296	9,344.65	Y		
2.1.1) MN79 COMPLETE ROUND		2014	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	ROCK ISLAND ARSENAL	May 2015	May 2017	292	17,454.54	Y		
2.1.1) MN79 COMPLETE ROUND	✓	2014	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	ROCK ISLAND ARSENAL	May 2015	May 2017	189	17,454.54	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1050 / 40 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	333.805	13.138	14.063	0.500	-	0.500	-	-	10.047	16.557	-	388.110
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	333.805	13.138	14.063	0.500	-	0.500	-	-	10.047	16.557	-	388.110
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	333.805	13.138	14.063	0.500	-	0.500	-	-	10.047	16.557	-	388.110
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The family of 40mm cartridges consists of low velocity single cartridges designed to be fired from the M203 and M32 grenade launchers, and high velocity linked cartridges 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 round (o-chlorobenzamalono-nitrile), training and practice rounds, and a light armor piercing and anti-personnel dual purpose round. Cartridges fired from the MK19 40mm grenade machine gun include a light armor piercing and anti-personnel dual purpose round and a day/night marker, target practice training round.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition				P-1 Line Item Number / Title: 1050 / 40 MM, All Types				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / 40 MM, All Types	P-5, P-5a, P-21		- / 333.805	- / 13.138	- / 14.063	- / 0.500	- / -	- / 0.500
Total Gross/Weapon System Cost			- / 333.805	- / 13.138	- / 14.063	- / 0.500	- / -	- / 0.500
*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 add due to rounding.								

Justification:

FY 2016 Base Appropriation: \$0.500M

The FY16 funds are for Engineering Support In Production (ESIP) costs to provide product configuration management and quality assurance. The decrease in funding from FY15 to FY16 is due to the 40MM Total Munitions Requirement (TMR) objective being currently satisfied.

FY 2015 Base Appropriation: \$6.965M

Funding procures items such as Cartridge, 40mm High Explosive, Dual Purpose Linked round and Cartridge, 40mm Day/Night Marker, Target Practice round. These items are used to support training and combat requirements that have been identified in the Total Munitions Requirement (TMR).

FY 2014 Base Appropriation: \$6.894M

Funds provided for First Destination Transportation costs and procured Cartridge, 40mm Day/Night Marker, Target Practice round. This funding was used to support training requirements that have been identified in the Total Munitions Requirement (TMR).

OCO:

FY 2016 Overseas Contingency Operations (OCO) Request: N/A

FY 2015 Overseas Contingency Operations (OCO): \$7.098M

Funding procures Cartridge, 40mm Target Practice, Day/Night Marker rounds that have been expended by Marine Forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques, and procedures. FY15 funding supports Operation Enduring Freedom (OEF)/Operation Freedom's Sentinel (OFS).

FY 2014 Overseas Contingency Operations (OCO): \$6.244M

Funding procured Cartridge, 40mm Target Practice, Day/Night Marker rounds to replenish inventory that was expended by Marine Forces during preparation, rehearsals, and combat engagements utilizing established tactics, techniques, and procedures. FY14 funding supported Operation Enduring Freedom - Afghanistan (OEF-A).

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1050 / 40 MM, All Types						Item Number / Title [DODIC]: 1 / 40 MM, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				333.805		13.138		14.063		0.500		-		0.500				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				333.805		13.138		14.063		0.500		-		0.500				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				333.805		13.138		14.063		0.500		-		0.500				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - B542, CTG 40MM HEDP LNKD Cost																		
Recurring Cost																		
1.1.1) B542 LOAD, ASSEMBLE, AND PACK C1 ^(t)	33.91	4,276,024	144.993	-	-	-	45.95	123,572	5.678	-	-	-	-	-	-	-	-	-
1.1.2) B542 LOAD, ASSEMBLE, AND PACK C2	33.90	1,447,270	49.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) B542 PRODUCTION ENGINEERING	-	-	3.179	-	-	-	-	-	1.010	-	-	0.500	-	-	-	-	-	0.500
1.1.4) B542 QUALITY ASSURANCE	-	-	0.080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) B542 FIRST ARTICLE TEST	-	-	0.161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	197.470	-	-	-	-	-	6.688	-	-	0.500	-	-	-	-	-	0.500
Subtotal: Hardware - B542, CTG 40MM HEDP LNKD Cost	-	-	197.470	-	-	-	-	-	6.688	-	-	0.500	-	-	-	-	-	0.500
Hardware - BA21, CTG 40MM, PRACTICE DAY/NIGHT MK281/1 Cost																		
Recurring Cost																		
2.1.1) BA21 LOAD, ASSEMBLE, AND PACK	30.14	1,325,874	39.959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1050 / 40 MM, All Types						Item Number / Title [DODIC]: 1 / 40 MM, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
2.1.2) BA21 PRODUCTION ENGINEERING	-	-	0.268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) BA21 QUALITY ASSURANCE	-	-	0.129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	40.356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - BA21, CTG 40MM, PRACTICE DAY/NIGHT MK281/1 Cost	-	-	40.356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - BA35, CTG 40MM PRACTICE DAY/NIGHT M1110 Cost																		
Recurring Cost																		
3.1.1) BA35 LOAD, ASSEMBLE, AND PACK ^(†)	10.04	2,208,167	22.170	10.65	1,201,783	12.799	10.97	647,037	7.098	-	-	-	-	-	-	-	-	-
3.1.2) BA35 PRODUCTION ENGINEERING	-	-	0.825	-	-	0.225	-	-	0.201	-	-	-	-	-	-	-	-	-
3.1.3) BA35 QUALITY ASSURANCE	-	-	0.300	-	-	0.089	-	-	0.076	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	23.295	-	-	13.113	-	-	7.375	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - BA35, CTG 40MM PRACTICE DAY/NIGHT M1110 Cost	-	-	23.295	-	-	13.113	-	-	7.375	-	-	-	-	-	-	-	-	-
Hardware - FDTC Cost																		
Non Recurring Cost																		
4.1.1) FDTC Baseline	-	-	0.405	-	-	0.025	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	0.405	-	-	0.025	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - FDTC Cost	-	-	0.405	-	-	0.025	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
5.1.1) PRIOR YEAR CUMULATIVE FUNDING	-	-	72.279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	72.279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost	-	-	72.279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1050 / 40 MM, All Types							Item Number / Title [DODIC]: 1 / 40 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	-	-	333.805	-	-	13.138	-	-	14.063	-	-	0.500	-	-	-	-	-	0.500

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1050 / 40 MM, All Types						Item Number / Title [DODIC]: 1 / 40 MM, All Types			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) B542 LOAD, ASSEMBLE, AND PACK C1		2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	ROCK ISLAND ARSENAL	Mar 2013	Nov 2014	417,939	36.11	Y		Jan 2013
1.1.1) B542 LOAD, ASSEMBLE, AND PACK C1	✓	2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	ROCK ISLAND ARSENAL	Mar 2013	Nov 2014	165,107	36.11	Y		Jan 2013
1.1.1) B542 LOAD, ASSEMBLE, AND PACK C1		2015	TBD / TBD	C / FFP	ROCK ISLAND ARSENAL	Mar 2015	Sep 2017	123,572	45.95	Y		Jan 2015
3.1.1) BA35 LOAD, ASSEMBLE, AND PACK ^(†)		2012 (1)	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Jun 2014	Jun 2015	1,809,761	10.04	Y		Jan 2013
3.1.1) BA35 LOAD, ASSEMBLE, AND PACK ^(†)	✓	2012 (2)	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Jun 2014	Jun 2015	398,406	10.04	Y		Jan 2013
3.1.1) BA35 LOAD, ASSEMBLE, AND PACK ^(†)		2014	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Jun 2014	Jun 2015	615,492	10.65	Y		Jan 2014
3.1.1) BA35 LOAD, ASSEMBLE, AND PACK ^(†)	✓	2014	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Jun 2014	Jun 2015	586,291	10.65	Y		Jan 2014
3.1.1) BA35 LOAD, ASSEMBLE, AND PACK ^(†)	✓	2015	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Mar 2015	Mar 2016	647,037	10.97	Y		Jan 2015
<p>(†) indicates the presence of a P-21</p> <p>Footnotes:</p> <p>(1) Award delayed 15 months due to price negotiation and discussions, along with DCAA audit delays.</p> <p>(2) Award delayed 15 months due to price negotiation and discussions, along with DCAA audit delays.</p>												

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1050 / 40 MM, All Types													Item Number / Title [DODIC]: 1 / 40 MM, All Types										
Cost Elements (Units in Millions (* = < 500 units))							Fiscal Year 2013												Fiscal Year 2014														
O 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												B A L		
							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) BA35 LOAD, ASSEMBLE, AND PACK																																	
	1	2012	NAVY	1.810	-	1.810																							A -	-	-	-	1.810
✓	1	2012	NAVY	.398	-	.398																							A -	-	-	-	.398
	1	2014	NAVY	.615	-	.615																							A -	-	-	-	.615
✓	1	2014	NAVY	.586	-	.586																							A -	-	-	-	.586
✓	1	2015	NAVY	.647	-	.647																											.647
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1050 / 40 MM, All Types										Item Number / Title [DODIC]: 1 / 40 MM, All Types														
Cost Elements <i>(Units in Millions (* = < 500 units))</i>							Fiscal Year 2015										Fiscal Year 2016																	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016										B A L							
							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) BA35 LOAD, ASSEMBLE, AND PACK																																		
	1	2012	NAVY	1.810	-	1.810	-	-	-	-	-	-	-	-	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151							-
✓	1	2012	NAVY	.398	-	.398	-	-	-	-	-	-	-	-	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033							-
	1	2014	NAVY	.615	-	.615	-	-	-	-	-	-	-	-	.059	.059	.059	.059	.059	.059	.059	.059	.059	.059	.059	.025							-	
✓	1	2014	NAVY	.586	-	.586	-	-	-	-	-	-	-	-	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049							-
✓	1	2015	NAVY	.647	-	.647						A -	-	-	-	-	-	-	-	-	-	-	-	-	.054	.054	.054	.054	.054	.054	.054	.270		
							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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1050 / 40 MM, All Types										Item Number / Title [DODIC]: 1 / 40 MM, All Types												
Cost Elements <i>(Units in Millions (* = < 500 units))</i>							Fiscal Year 2017										Fiscal Year 2018															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018										B A L					
							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) BA35 LOAD, ASSEMBLE, AND PACK																																
	1	2012	NAVY	1.810	1.810	-																										-
✓	1	2012	NAVY	.398	.398	-																										-
	1	2014	NAVY	.615	.615	-																										-
✓	1	2014	NAVY	.586	.586	-																										-
✓	1	2015	NAVY	.647	.377	.270	.054	.054	.054	.054	.054	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	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1050 / 40 MM, All Types				Item Number / Title [DODIC]: 1 / 40 MM, All Types			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	AMERICAN RHEINMETALL MUNITIONS - CAMDEN, AR	40,000	90,000	6,000,000	6	10	12	22	6	10	12	22
"A" in the Delivery Schedule indicates the Contract Award Date. Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1083 / 60 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	38.184	8.017	8.196	1.849	-	1.849	1.855	1.860	1.871	1.906	-	63.738
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	38.184	8.017	8.196	1.849	-	1.849	1.855	1.860	1.871	1.906	-	63.738
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	38.184	8.017	8.196	1.849	-	1.849	1.855	1.860	1.871	1.906	-	63.738
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
 Description: The family of 60mm mortar cartridges is designed to be fired from the M224 lightweight mortar system in support of Infantry Company sized maneuvers. The family of munitions consists of high explosive, smoke, illumination, and training rounds. The 60mm family of cartridges is used to provide close-in indirect fire support of ground troops at ranges of approximately 70 to 3,500 meters.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition				P-1 Line Item Number / Title: 1083 / 60 MM, All Types				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / 60 MM, All Types	P-5, P-5a		- / 38.184	- / 8.017	- / 8.196	- / 1.849	- / -	- / 1.849
Total Gross/Weapon System Cost			- / 38.184	- / 8.017	- / 8.196	- / 1.849	- / -	- / 1.849
*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 add due to rounding.								

Justification:

FY 2016 Base Appropriation Request: \$1.849M.

This funding will be used to replenish munitions that have been expended by Marine forces during training, preparation and rehearsals for combat engagements. This ammunition is used in the lightweight mortar systems. The funding decreases from FY15 to FY16 based on projected inventory and the Total Munitions Requirement (TMR).

FY 2015 Base Appropriation: \$2.261M.

Procures 60 MM mortar cartridges, 60mm Full Range Practice, and supports engineering support in production costs. Funding replenishes munitions that have been expended by Marine forces during preparation and rehearsals utilizing established tactics, techniques and procedures that have been identified in the Total Munitions Requirement (TMR).

FY 2014 Base Appropriation: \$4.649M.

Procured 60 MM mortar cartridges; 60mm Full Range Practice cartridges, and mortar cartridges for training and combat requirements that were identified in the Total Munitions Requirement (TMR).

OCO:

FY 2016 Overseas Contingency Operations (OCO) Request: N/A

FY 2015 Overseas Contingency Operations (OCO): \$5.935M.

Procures the Cartridge, 60mm Full Range Practice for replenishment of munitions that have been expended by Marine forces during preparation and rehearsals utilizing established tactics, techniques and procedures. FY15 funding supports Operation Enduring Freedom (OEF/ Operation Freedom's Sentinel (OFS).

FY 2014 Overseas Contingency Operations (OCO): \$3.368M.

Procured the Cartridge, 60mm Full Range Practice for replenishment of munitions that were expended by Marine forces during preparation and rehearsals utilizing established tactics, techniques and procedures. FY14 funding supported Operation Enduring Freedom - Afghanistan (OEF-A).

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1083 / 60 MM, All Types						Item Number / Title [DODIC]: 1 / 60 MM, All Types							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				38.184		8.017		8.196		1.849		-		1.849					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				38.184		8.017		8.196		1.849		-		1.849					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				38.184		8.017		8.196		1.849		-		1.849					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - BA16, CARTRIDGE, 60MM WITH MOF Cost																			
Recurring Cost																			
1.1.1) BA16 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		54.63	34,358	1.877	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.2) BA16 FUZE, MULTI-OPTION M734A1		213.06	16,047	3.419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.3) BA16 SHELL BODY (HF1) 60MM		39.88	35,735	1.425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.4) BA16 M702 IGNITION CARTRIDGE ^(†)		17.16	35,726	0.613	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.5) BA16 PROPELLANT CHARGE M235 ^(†)		7.64	142,977	1.093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.6) BA16 FIN ASSEMBLY M27		7.02	35,742	0.251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.7) BA16 PRODUCTION ENGINEERING		-	-	0.937	-	-	1.300	-	-	0.199	-	-	-	-	-	-	-	-	
1.1.8) BA16 QUALITY ASSURANCE		-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.9) BA16 ACCEPTANCE TESTING		-	-	1.160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1083 / 60 MM, All Types						Item Number / Title [DODIC]: 1 / 60 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1.1.10) BA16 EPA - COST OF MATERIALS	-	-	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.11) BA16 FIRST ARTICLE TESTING	-	-	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	10.847	-	-	1.300	-	-	0.199	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - BA16, CARTRIDGE, 60MM WITH MOF Cost	-	-	10.847	-	-	1.300	-	-	0.199	-	-	-	-	-	-	-	-	-
Hardware - BA15, CARTRIDGE, 60MM FULL RANGE PRACTICE Cost																		
Recurring Cost																		
2.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	-	-	-	17.53	47,690	0.836	17.27	48,298	0.834	18.96	11,005	0.209	-	-	-	18.96	11,005	0.209
2.1.2) BA15 FUZE PRACTICE M775 ^(†)	-	-	-	17.89	49,066	0.878	18.99	49,743	0.945	19.36	11,364	0.220	-	-	-	19.36	11,364	0.220
2.1.3) BA15 SHELL BODY 60MM FRPC ^(†)	-	-	-	34.39	49,056	1.687	38.17	49,727	1.898	38.93	11,335	0.441	-	-	-	38.93	11,335	0.441
2.1.4) BA15 M702 IGNITION CARTRIDGE ^(†)	-	-	-	13.25	46,805	0.620	16.41	19,367	0.318	16.73	11,335	0.190	-	-	-	16.73	11,335	0.190
2.1.5) BA15 PROPELLANT CHARGE M235 ^(†)	-	-	-	8.92	196,211	1.750	10.34	198,925	2.057	10.54	45,341	0.478	-	-	-	10.54	45,341	0.478
2.1.6) BA15 FIN ASSEMBLY M27 ^(†)	-	-	-	7.19	49,000	0.352	9.80	49,771	0.488	9.99	11,335	0.113	-	-	-	9.99	11,335	0.113
2.1.7) BA15 PRODUCTION ENGINEERING	-	-	0.988	-	-	0.288	-	-	0.916	-	-	0.119	-	-	-	-	-	0.119
2.1.8) BA15 QUALITY ASSURANCE	-	-	0.025	-	-	0.006	-	-	0.001	-	-	0.005	-	-	-	-	-	0.005
2.1.9) BA15 ACCEPTANCE TESTING	-	-	0.220	-	-	0.300	-	-	0.341	-	-	0.074	-	-	-	-	-	0.074
Subtotal: Recurring Cost	-	-	1.233	-	-	6.717	-	-	7.798	-	-	1.849	-	-	-	-	-	1.849
Subtotal: Hardware - BA15, CARTRIDGE, 60MM FULL RANGE PRACTICE Cost	-	-	1.233	-	-	6.717	-	-	7.798	-	-	1.849	-	-	-	-	-	1.849
Hardware - B643, CTG, 60MM HE Cost																		
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy														Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1083 / 60 MM, All Types							Item Number / Title [DODIC]: 1 / 60 MM, All Types				
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:							
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.1.1) B643 PRODUCTION ENGINEERING	-	-	3.377	-	-	-	-	-	0.199	-	-	-	-	-	-	-	-	-
3.1.2) B643 PRIOR YEARS CUMULATIVE FUNDING	-	-	22.727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	26.104	-	-	-	-	-	0.199	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - B643, CTG, 60MM HE Cost	-	-	26.104	-	-	-	-	-	0.199	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	38.184	-	-	8.017	-	-	8.196	-	-	1.849	-	-	-	-	-	1.849

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1083 / 60 MM, All Types				Item Number / Title [DODIC]: 1 / 60 MM, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) BA16 LOAD, ASSEMBLE, AND PACK (LAP)	✓	2012	POCAL INDUSTRIES / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2014	Dec 2014	15,430	61.24	Y		
1.1.4) BA16 M702 IGNITION CARTRIDGE	✓	2012	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2013	Sep 2014	16,047	14.51	Y		
1.1.5) BA16 PROPELLANT CHARGE M235	✓	2012	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2013	Sep 2014	64,189	7.71	Y		
2.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2014	Jun 2016	22,761	17.53	Y		
2.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)	✓	2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2014	Jun 2016	24,929	17.53	Y		
2.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Mar 2017	9,387	17.27	Y		
2.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Mar 2017	38,911	17.27	Y		
2.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2018	11,005	18.96	Y		
2.1.2) BA15 FUZE PRACTICE M775		2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2014	Jul 2015	23,409	17.89	Y		
2.1.2) BA15 FUZE PRACTICE M775	✓	2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2014	Jul 2015	25,657	17.89	Y		
2.1.2) BA15 FUZE PRACTICE M775		2015	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	9,669	18.99	Y		
2.1.2) BA15 FUZE PRACTICE M775	✓	2015	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDDQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	40,074	18.99	Y		
2.1.2) BA15 FUZE PRACTICE M775		2016	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	11,364	19.36	N		
2.1.3) BA15 SHELL BODY 60MM FRPC		2014	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2014	Dec 2015	23,409	34.39	Y		
2.1.3) BA15 SHELL BODY 60MM FRPC	✓	2014	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2014	Dec 2015	25,647	34.39	Y		
2.1.3) BA15 SHELL BODY 60MM FRPC		2015	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	9,669	38.17	Y		
2.1.3) BA15 SHELL BODY 60MM FRPC	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	40,058	38.17	Y		
2.1.3) BA15 SHELL BODY 60MM FRPC		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	11,335	38.93	N		
2.1.4) BA15 M702 IGNITION CARTRIDGE		2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	23,409	13.25	Y		
2.1.4) BA15 M702 IGNITION CARTRIDGE	✓	2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	23,396	13.25	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1083 / 60 MM, All Types					Item Number / Title [DODIC]: 1 / 60 MM, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.4) BA15 M702 IGNITION CARTRIDGE		2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	9,669	16.41	Y		
2.1.4) BA15 M702 IGNITION CARTRIDGE	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	9,698	16.41	Y		
2.1.4) BA15 M702 IGNITION CARTRIDGE		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	11,335	16.73	N		
2.1.5) BA15 PROPELLANT CHARGE M235		2014	AMERICAN ORDANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2014	Jan 2016	93,635	8.92	Y		
2.1.5) BA15 PROPELLANT CHARGE M235	✓	2014	AMERICAN ORDANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2014	Jan 2016	102,576	8.92	Y		
2.1.5) BA15 PROPELLANT CHARGE M235		2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	38,674	10.34	Y		
2.1.5) BA15 PROPELLANT CHARGE M235	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	160,251	10.34	Y		
2.1.5) BA15 PROPELLANT CHARGE M235		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	45,341	10.54	N		
2.1.6) BA15 FIN ASSEMBLY M27		2014	Flexible Concepts / Elkhart, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	23,409	7.19	Y		
2.1.6) BA15 FIN ASSEMBLY M27	✓	2014	Flexible Concepts / Elkhart, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	25,591	7.19	Y		
2.1.6) BA15 FIN ASSEMBLY M27		2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	9,669	9.80	Y		
2.1.6) BA15 FIN ASSEMBLY M27	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	40,102	9.80	Y		
2.1.6) BA15 FIN ASSEMBLY M27		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	11,335	9.99	N		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity:

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

P-1 Line Item Number / Title:

1091 / 81 MM, All Types

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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	128.365	9.202	10.814	1.000	-	1.000	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	128.365	9.202	10.814	1.000	-	1.000	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	128.365	9.202	10.814	1.000	-	1.000	-	-	-	-	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The 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 rounds. The 81mm family of mortars is used for long-range indirect fire support to infantry units at ranges of approximately 100 to 6,000 meters.

Beginning in FY15, funding is focused on Engineering Support for replacement of DODICs C868 and C869 to Insensitive Munitions.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
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: 1091 / 81 MM, All Types			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / 81 MM, All Types	P-5, P-5a		- / 128.365	- / 9.202	- / 10.814	- / 1.000	- / -	- / 1.000
Total Gross/Weapon System Cost			- / 128.365	- / 9.202	- / 10.814	- / 1.000	- / -	- / 1.000
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.</p>								
<p>Justification: FY 2016 Base Appropriation Request: \$1.000M. This funding will be used for Engineering Support for the IM (Insensitive Munition) replacement for C869 (DODIC CA62).</p> <p>FY 2015 Base Appropriation: \$1.496M. Funds Engineering Support for the IM (Insensitive Munition) replacement for C868, which is DODIC CA61. All of these items are training and combat requirements identified in the Total Munitions Requirement (TMR).</p> <p>FY 2014 Base Appropriation: \$.040M. Provided First Destination Transportation (FDTC) of items that were delivered in FY14.</p> <p>OCO: FY 2016 Overseas Contingency Operations (OCO) Request: N/A</p> <p>FY 2015 Overseas Contingency Operations (OCO): \$9.318M. Procures the Cartridge C869, 81mm HE with Point Detonating (PD) Fuze and the Cartridge C870, 81mm Smoke Red Phosphorous (RP) that have been expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY15 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY 2014 Overseas Contingency Operations (OCO): \$9.162M. Procured the Cartridge C869, 81mm HE (High Explosive) with Point Detonating (PD) Fuze that were expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY14 funding supported Operation Enduring Freedom - Afghanistan (OEF-A).</p>								

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1091 / 81 MM, All Types						Item Number / Title [DODIC]: 1 / 81 MM, All Types								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				128.365			9.202			10.814			1.000			-			1.000		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P1) <i>(\$ in Millions)</i>				128.365			9.202			10.814			1.000			-			1.000		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				128.365			9.202			10.814			1.000			-			1.000		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																					
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - C868, CTG, 81MM HE W/M734A1 MOF FUZE Cost																					
Recurring Cost																					
1.1.1) C868 LOAD, ASSEMBLE, AND PACK ^(†)	51.02	335,270	17.105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.1.2) C868 FIN ASSEMBLY ^(†)	12.21	39,561	0.483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.1.3) C868 IGNITION CARTRIDGE ^(†)	17.50	39,541	0.692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.1.4) C868 PROPELLANT CHARGE ^(†)	9.01	158,002	1.424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.1.5) C868 SHELL BODY, 81MM ^(†)	53.57	39,503	2.116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.1.6) C868 COMP B	4.40	113,325	0.499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.1.7) C868 IMX-104 ^(†)	21.34	7,310	0.156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.1.8) C868 FUZE, MOF, M734A1 ^(†)	204.92	39,518	8.098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.1.9) C868 PRODUCTION ENGINEERING	-	-	1.439	-	-	-	-	-	0.499	-	-	-	-	-	-	-	-	-			
1.1.10) C868 QUALITY ASSURANCE	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1091 / 81 MM, All Types						Item Number / Title [DODIC]: 1 / 81 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1.1.11) C868 ACCEPTANCE TESTING	-	-	1.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.12) C868 GOVERNMENT FURNISHED MATERIAL	-	-	-0.235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.13) C868 FIRST ARTICLE TEST	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	32.914	-	-	-	-	-	0.499	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - C868, CTG, 81MM HE W/M734A1 MOF FUZE Cost	-	-	32.914	-	-	-	-	-	0.499	-	-	-	-	-	-	-	-	-
Hardware - C869, CTG, 81MM HE W/M935 PD FUZE Cost																		
Recurring Cost																		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK ^(†)	58.33	310,487	18.112	70.97	23,449	1.664	81.07	17,717	1.436	82.68	2,078	0.172	-	-	-	82.68	2,078	0.172
2.1.2) C869 SHELL BODY, 81MM ^(†)	53.78	322,892	17.365	63.02	24,152	1.522	50.49	18,249	0.921	51.49	2,140	0.110	-	-	-	51.49	2,140	0.110
2.1.3) C869 M935 FUZE ^(†)	50.86	320,582	16.306	52.25	24,152	1.262	53.25	18,249	0.972	54.31	2,140	0.116	-	-	-	54.31	2,140	0.116
2.1.4) C869 IGNITION CARTRIDGE ^(†)	17.19	322,968	5.553	14.35	24,152	0.347	17.02	18,249	0.311	17.36	2,140	0.037	-	-	-	17.36	2,140	0.037
2.1.5) C869 PROP CHARGE M220 ^(†)	8.65	1,291,585	11.173	10.58	96,610	1.022	12.69	72,994	0.926	12.94	8,561	0.111	-	-	-	12.94	8,561	0.111
2.1.6) C869 FIN ASSEMBLY ^(†)	12.22	322,959	3.945	14.95	24,152	0.361	15.81	18,249	0.289	16.12	2,140	0.034	-	-	-	16.12	2,140	0.034
2.1.7) C869 COMP A-5 Class 1	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
2.1.8) C869 PBXW-14 Bulk Explosive ^(†)	8.48	1,008,748	8.551	80.31	2,720	0.218	81.78	2,055	0.168	83.41	311	0.026	-	-	-	83.41	311	0.026
2.1.9) C869 Explosive Fill IMX-104 ^(†)	4.02	32,310	0.130	21.90	76,206	1.669	-	-	-	22.73	8,727	0.198	-	-	-	22.73	8,727	0.198
2.1.10) C869 PRODUCTION ENGINEERING	-	-	4.355	-	-	0.914	-	-	0.997	-	-	0.106	-	-	-	-	-	0.106
2.1.11) C869 ACCEPTANCE TESTING	-	-	2.863	-	-	0.180	-	-	0.150	-	-	0.090	-	-	-	-	-	0.090

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1091 / 81 MM, All Types						Item Number / Title [DODIC]: 1 / 81 MM, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
2.1.12) C869 PRODUCTION VERIFICATION TESTS	-	-	2.501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.13) C869 GOVERNMENT FURNISHED MATERIAL	-	-	-6.873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.14) C869 ENGINEERING CHANGE PROPOSAL	-	-	0.978	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.15) PC&H F/LEAD AZIDE	-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.16) BOOSTER CUPS	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	84.965	-	-	9.162	-	-	6.170	-	-	1.000	-	-	-	-	-	1.000
Subtotal: Hardware - C869, CTG, 81MM HE W/M935 PD FUZE Cost	-	-	84.965	-	-	9.162	-	-	6.170	-	-	1.000	-	-	-	-	-	1.000
Hardware - C870, CTG MORTAR 81MM SMOKE RP M819 Cost																		
Recurring Cost																		
3.1.1) C870 LOAD, ASSEMBLE, AND PACK ^(†)	-	-	-	-	-	-	178.21	6,152	1.096	-	-	-	-	-	-	-	-	-
3.1.2) C870 FIBER CONTAINER PA162 ^(†)	4.80	8,750	0.042	-	-	-	5.74	6,337	0.036	-	-	-	-	-	-	-	-	-
3.1.3) C870 GAS ABSORBENT MODULES (GAMS) ^(†)	18.21	17,298	0.315	-	-	-	10.18	12,796	0.130	-	-	-	-	-	-	-	-	-
3.1.4) C870 RED PHOSPHOROUS PELLET ^(†)	-	-	-	-	-	-	12.56	18,456	0.232	-	-	-	-	-	-	-	-	-
3.1.5) C870 FUZE M772 ^(†)	181.54	8,648	1.570	-	-	-	197.57	6,337	1.252	-	-	-	-	-	-	-	-	-
3.1.6) C870 IGN CARTRIDGE M752 ^(†)	18.02	8,657	0.156	-	-	-	19.69	6,337	0.125	-	-	-	-	-	-	-	-	-
3.1.7) C870 QUALITY ASSURANCE	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.8) C870 PRODUCTION ENGINEERING	-	-	1.526	-	-	-	-	-	0.251	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1091 / 81 MM, All Types						Item Number / Title [DODIC]: 1 / 81 MM, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
3.1.9) C870 ACCEPTANCE TESTING	-	-	0.233	-	-	-	-	-	0.043	-	-	-	-	-	-	-	-	-
3.1.10) C870 81MM SMOKE BODY TUBE ^(†)	34.69	8,648	0.300	-	-	-	38.06	6,337	0.241	-	-	-	-	-	-	-	-	-
3.1.11) C870 81MM SMOKE TAIL CONE ^(†)	26.79	8,660	0.232	-	-	-	29.31	6,337	0.186	-	-	-	-	-	-	-	-	-
3.1.12) C870 METAL CONTAINER PA157 ^(†)	38.60	285	0.011	-	-	-	51.23	2,153	0.110	-	-	-	-	-	-	-	-	-
3.1.13) C870 PROP CHARGE M218 ^(†)	8.02	34,539	0.277	-	-	-	12.69	25,346	0.322	-	-	-	-	-	-	-	-	-
3.1.14) C870 FIN ASSEMBLY M28 ^(†)	16.44	8,637	0.142	-	-	-	19.13	6,337	0.121	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	4.806	-	-	-	-	-	4.145	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - C870, CTG MORTAR 81MM SMOKE RP M819 Cost	-	-	4.806	-	-	-	-	-	4.145	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
4.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	5.568	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	5.568	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost	-	-	5.568	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - FIRST DESTINATION TRANSPORTATION CHARGES Cost																		
5.1) FIRST DESTINATION TRANSPORTATION CHARGES (FDTC)	-	-	0.112	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - FIRST DESTINATION TRANSPORTATION CHARGES Cost	-	-	0.112	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	128.365	-	-	9.202	-	-	10.814	-	-	1.000	-	-	-	-	-	1.000
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1091 / 81 MM, All Types				Item Number / Title [DODIC]: 1 / 81 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) C868 LOAD, ASSEMBLE, AND PACK		2012	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Jul 2014	Feb 2016	3,620	50.00	Y		
1.1.1) C868 LOAD, ASSEMBLE, AND PACK		2013	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Jul 2014	Feb 2016	19,920	67.12	Y		
1.1.2) C868 FIN ASSEMBLY		2012	GAYSTON CORP / SPRINGBORO, OH	C / FFP	PICATINNY ARSENAL	Sep 2013	Mar 2015	3,792	12.13	Y		
1.1.2) C868 FIN ASSEMBLY		2013	GAYSTON CORP / SPRINGBORO, OH	C / FFP	PICATINNY ARSENAL	Apr 2014	Oct 2015	2,518	12.71	Y		
1.1.3) C868 IGNITION CARTRIDGE		2012	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL	Sep 2013	Mar 2015	3,724	14.50	Y		
1.1.3) C868 IGNITION CARTRIDGE		2013	POCAL INDUSTRIES / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL	Apr 2014	Oct 2015	2,552	20.77	Y		
1.1.4) C868 PROPELLANT CHARGE		2012	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL	Sep 2013	Mar 2015	15,026	7.72	Y		
1.1.4) C868 PROPELLANT CHARGE		2013	GENERAL DYNAMICS OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Apr 2014	Oct 2015	10,117	9.39	Y		
1.1.5) C868 SHELL BODY, 81MM		2012	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Sep 2013	Mar 2015	3,764	58.72	Y		
1.1.5) C868 SHELL BODY, 81MM		2013	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Apr 2014	Oct 2015	2,521	70.99	Y		
1.1.7) C868 IMX-104		2013	BAE ORDNANCE SYSTEMS / KINGSFORT, TN	C / FFP	ROCK ISLAND ARSENAL	Mar 2014	Nov 2015	7,310	21.34	Y		
1.1.8) C868 FUZE, MOF, M734A1		2012	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINNATI, OH	C / FFP	PICATINNY ARSENAL	Oct 2013	Jun 2015	3,760	213.06	Y		
1.1.8) C868 FUZE, MOF, M734A1		2013	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINNATI, OH	C / FFP	PICATINNY ARSENAL	Apr 2013	Dec 2014	2,528	297.11	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK		2012	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Mar 2013	Mar 2015	32,940	46.57	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK	✓	2012	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Mar 2013	Mar 2015	72,600	46.57	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK	✓	2014	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Aug 2014	Aug 2016	23,449	70.97	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL	Mar 2015	Mar 2017	17,717	81.07	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL	Mar 2016	Mar 2018	2,078	82.68	N		
2.1.2) C869 SHELL BODY, 81MM	✓	2014	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Mar 2014	Sep 2015	24,152	63.02	Y		
2.1.2) C869 SHELL BODY, 81MM	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	18,249	50.49	Y		
2.1.2) C869 SHELL BODY, 81MM		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL	Feb 2016	Aug 2017	2,140	51.49	N		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1091 / 81 MM, All Types					Item Number / Title [DODIC]: 1 / 81 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
2.1.3) C869 M935 FUZE	✓	2014	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINNATI, OH	C / FFP	ROCK ISLAND ARSENAL	Jun 2014	Dec 2015	24,152	52.25	Y		
2.1.3) C869 M935 FUZE	✓	2015	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINNATI, OH	C / FFP	ROCK ISLAND ARSENAL	Jun 2015	Dec 2016	18,249	53.25	Y		
2.1.3) C869 M935 FUZE		2016	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINNATI, OH	C / FFP	ROCK ISLAND ARSENAL	Feb 2016	Aug 2017	2,140	54.31	N		
2.1.4) C869 IGNITION CARTRIDGE	✓	2014	POCAL INDUSTRIES / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL	Mar 2014	May 2014	24,152	14.35	Y		
2.1.4) C869 IGNITION CARTRIDGE	✓	2015	TO BE SELECTED / UNKNOWN	C / TBD	ROCK ISLAND ARSENAL	Mar 2015	Mar 2018	18,249	17.02	Y		
2.1.4) C869 IGNITION CARTRIDGE		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL	Feb 2016	Aug 2017	2,140	17.36	N		
2.1.5) C869 PROP CHARGE M220	✓	2014	GD-OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Jun 2014	Dec 2015	96,610	10.58	Y		
2.1.5) C869 PROP CHARGE M220	✓	2015	GD-OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Jun 2015	Dec 2016	72,994	12.69	Y		
2.1.5) C869 PROP CHARGE M220		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL	Feb 2016	Aug 2017	8,561	12.94	N		
2.1.6) C869 FIN ASSEMBLY	✓	2014	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL	Jan 2014	Jul 2015	24,152	14.95	Y		
2.1.6) C869 FIN ASSEMBLY	✓	2015	TO BE SELECTED / UNKNOWN	C / FFP	PICATINNY ARSENAL	Apr 2015	Oct 2016	18,249	15.81	Y		
2.1.6) C869 FIN ASSEMBLY		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL	Feb 2016	Aug 2017	2,140	16.12	N		
2.1.8) C869 PBXW-14 Bulk Explosive	✓	2014	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Jul 2014	Mar 2015	2,720	80.31	N		
2.1.8) C869 PBXW-14 Bulk Explosive	✓	2015	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Apr 2015	Dec 2016	2,055	81.78	N		
2.1.8) C869 PBXW-14 Bulk Explosive		2016	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Feb 2016	Oct 2017	311	83.41	N		
2.1.9) C869 Explosive Fill IMX-104	✓	2014	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Aug 2014	Apr 2015	76,206	21.90	Y		
2.1.9) C869 Explosive Fill IMX-104		2016	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Feb 2016	Oct 2017	8,727	22.73	N		
3.1.1) C870 LOAD, ASSEMBLE, AND PACK	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL	Feb 2015	Feb 2017	6,152	178.21	Y		
3.1.2) C870 FIBER CONTAINER PA162	✓	2015	UAC, INC / WYNNEWOOD, PA	C / FFP	PICATINNY ARSENAL	Apr 2015	Oct 2016	6,337	5.74	Y		
3.1.3) C870 GAS ABSORBENT MODULES (GAMS)	✓	2015	DESIGN WEST ARATECH / TUSTIN, CA	C / FFP	PICATINNY ARSENAL	Apr 2015	Oct 2016	12,796	10.18	Y		
3.1.4) C870 RED PHOSPHOROUS PELLET	✓	2015	CLARIANT CORP / KNAPSACK, GERMANY	C / FFP	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	18,456	12.56	Y		
3.1.5) C870 FUZE M772	✓	2015	JUNGHANS MICROTECH GMBH / DENNINGEN	PO	ROCK ISLAND ARSENAL	Apr 2015	Dec 2016	6,337	197.57	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1091 / 81 MM, All Types						Item Number / Title [DODIC]: 1 / 81 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
3.1.6) C870 IGN CARTRIDGE M752	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	6,337	19.69	Y		
3.1.10) C870 81MM SMOKE BODY TUBE	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL	Mar 2015	Sep 2016	6,337	38.06	Y		
3.1.11) C870 81MM SMOKE TAIL CONE	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL	Mar 2015	Sep 2016	6,337	29.31	Y		
3.1.12) C870 METAL CONTAINER PA157	✓	2015	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL	Apr 2015	Oct 2016	2,153	51.23	Y		
3.1.13) C870 PROP CHARGE M218	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	25,346	12.69	Y		
3.1.14) C870 FIN ASSEMBLY M28	✓	2015	TO BE SELECTED / UNKNOWN	C / FFP	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	6,337	19.13	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1121 / 120 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	282.513	27.027	19.076	13.867	10.719	24.586	23.763	31.725	37.409	91.657	-	537.756
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	282.513	27.027	19.076	13.867	10.719	24.586	23.763	31.725	37.409	91.657	-	537.756
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	282.513	27.027	19.076	13.867	10.719	24.586	23.763	31.725	37.409	91.657	-	537.756
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
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 smoothbore M256 Cannon. It consists of a family of Kinetic Energy (KE) rounds and a family of high explosive anti-tank (HEAT) rounds. Current tank gun ammunition is a single fixed round ("shell" and charge combined in a single piece) for quick loading. The propellant is in a combustible case, thus negating empty shell casings. The cartridge is functioned by receiving electronic data thru a databus from the M1A1 Tank fire control system setting the appropriate fuze mode and then fired by receiving an electrical pulse to the electric primer, igniting the propellant/combustible case and launching the projectile. 120MM ammunition also includes target practice rounds for use with the 120MM smooth bore M256 Cannon. It is designed to simulate the service round characteristics at reduced maximum ranges to allow the practice firings on short range proving grounds and training areas.

Expeditionary Fire Support System (EFSS) is a family of 120MM Rifled Mortar ammunition that includes the M1101 Cartridge, High Explosive, the M1105 Cartridge, Illumination, and the XM1103 Cartridge, White Phosphorus. The EFSS provides all-weather, ground-based; close supporting, accurate, immediately responsive, and lethal indirect fire support for the Marine Air-Ground Task Force (MAGTF). EFSS is the principal indirect fire support weapon for Marine Expeditionary Units and vertical assault elements of a Ship-To-Objective Maneuver (STOM) force. EFSS is capable of successfully engaging a spectrum of potential point and area targets, including motorized, light armored, and dismounted personnel targets, command and control systems, and indirect fire systems.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition				P-1 Line Item Number / Title: 1121 / 120 MM, All Types				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / 120 MM, All Types	P-5, P-5a, P-21		- / 282.513	- / 27.027	- / 19.076	- / 13.867	- / 10.719	- / 24.586
Total Gross/Weapon System Cost			- / 282.513	- / 27.027	- / 19.076	- / 13.867	- / 10.719	- / 24.586
*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 add due to rounding.								

Justification:

FY 2016 Base Appropriation Request: \$13.867M.

The FY 2016 funding request was reduced by \$5 million to account for the availability of prior year execution balances.

This funding will be used to replenish 120MM munitions that have been expended by Marine forces during training, preparation and rehearsals for combat engagements. This ammunition is used in the 120MM mortar and tank platforms.

FY 2015 Base Appropriation: \$12.155M.

Procures 120MM mortar and tank ammunition to support required training of Marines and the total munitions requirement (TMR). Procures items such as 120MM Tank canister round, 120MM White Phosphorous mortar ammunition and 120MM Tank MP-HE ammunition.

FY 2014 Base Appropriation: \$16.761M.

Procured 120MM mortar and tank ammunition to support required training of Marines and the total munitions requirement (TMR). Funding supported the C785 120MM Tank ammunition recapitalization effort and procured CA45, 120MM HE Mortar ammunition, DWGU, 120MM mortar tail charge assemblies and CA57, 120 MM Tank MP-HE ammunition.

OCO:

FY 2016 Overseas Contingency Operations (OCO) Request: \$10.719M

This funding will be used to replenish munitions that have been expended by Marine forces during training, preparation and combat engagements. This ammunition is used in the 120 mm mortar and tank platforms and will be used to procure CA49, 120MM EFSS WP mortar ammunition. FY16 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

FY 2015 Overseas Contingency Operations (OCO): \$6.921M.

This funding procures 120MM tank ammunition for replenishment of munitions that have been expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY15 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel.

FY 2014 Overseas Contingency Operations (OCO): \$10.266M.

Procured 120MM EFSS ammunition and DWGU, Tail Charge Assemblies as replenishment of munitions that were expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY14 funding supports Operation Enduring Freedom - Afghanistan (OEF-A).

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Exhibit P-5, Cost Analysis: PB 2016 Navy											Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1121 / 120 MM, All Types						Item Number / Title [DODIC]: 1 / 120 MM, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				282.513		27.027		19.076		13.867		10.719		24.586				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P1) (<i>\$ in Millions</i>)				282.513		27.027		19.076		13.867		10.719		24.586				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				282.513		27.027		19.076		13.867		10.719		24.586				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - CA38, CTG, 120MM TANK CANISTER M1028 Cost																		
Recurring Cost																		
1.1.1) CA38, CTG, 120MM TANK CANISTER M1028	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) CA38 ENGINEERING SUPPORT	-	-	-	-	-	-	-	-	3.895	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.001	-	-	-	-	-	3.895	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - CA38, CTG, 120MM TANK CANISTER M1028 Cost	-	-	0.001	-	-	-	-	-	3.895	-	-	-	-	-	-	-	-	-
Hardware - CA31, CTG 120MM TPMP-T M1002 Cost																		
Recurring Cost																		
2.1.1) CA31 COMPLETE ROUND - General Dynamics ^(†)	3,456.38	13,250	45.797	-	-	-	2,842.08	513	1.458	-	-	-	-	-	-	-	-	-
2.1.2) CA31 COMPLETE ROUND - Alliant Tech ^(†)	-	-	-	-	-	-	2,842.08	513	1.458	-	-	-	-	-	-	-	-	-
2.1.3) CA31 ENGINEERING SUPPORT	-	-	-	-	-	-	-	-	0.193	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	45.797	-	-	-	-	-	3.109	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1121 / 120 MM, All Types						Item Number / Title [DODIC]: 1 / 120 MM, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware - CA31, CTG 120MM TPMP-T M1002 Cost	-	-	45.797	-	-	-	-	-	3.109	-	-	-	-	-	-	-	-	-
Hardware - C785 RECAPITALIZATION PROGRAM Cost																		
Recurring Cost																		
3.1.1) C785 ENGINEERING SUPPORT	-	-	-	-	-	6.457	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	6.457	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - C785 RECAPITALIZATION PROGRAM Cost	-	-	-	-	-	6.457	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CA45 HIGH EXPLOSIVE CARTRIDGE M1101 Cost																		
Recurring Cost																		
4.1.1) CA45 COMPLETE ROUND ^(†)	2,969.25	6,699	19.891	2,789.90	2,382	6.646	-	-	-	-	-	-	-	-	-	-	-	-
4.1.2) ENGINEERING SUPPORT COST	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	19.891	-	-	6.648	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - CA45 HIGH EXPLOSIVE CARTRIDGE M1101 Cost	-	-	19.891	-	-	6.648	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CA49 120MM MORTAR WHITE PHOSPHORUS, XM1103 Cost																		
Recurring Cost																		
6.1.1) CA49 COMPLETE ROUND ^(†)	-	-	-	6,680.96	1,423	9.507	6,826.98	734	5.011	7,084.50	1,275	9.033	7,084.50	1,513	10.719	7,084.50	2,788	19.752
6.1.2) ENGINEERING SUPPORT COSTS	-	-	-	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	0.008
Subtotal: Recurring Cost	-	-	-	-	-	9.507	-	-	5.011	-	-	9.041	-	-	10.719	-	-	19.760
Subtotal: Hardware - CA49 120MM MORTAR WHITE PHOSPHORUS, XM1103 Cost	-	-	-	-	-	9.507	-	-	5.011	-	-	9.041	-	-	10.719	-	-	19.760
Hardware - CA57, CTG, 120MM Multi-Purpose-High Explosive (MP-HE) Cost																		
Recurring Cost																		
7.1.1) CA57 SYSTEM BUY ^(†)	-	-	-	9,607.67	339	3.257	9,554.80	739	7.061	9,594.43	503	4.826	-	-	-	9,594.43	503	4.826
Subtotal: Recurring Cost	-	-	-	-	-	3.257	-	-	7.061	-	-	4.826	-	-	-	-	-	4.826

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1121 / 120 MM, All Types						Item Number / Title [DODIC]: 1 / 120 MM, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware - CA57, CTG, 120MM Multi-Purpose-High Explosive (MP-HE) Cost	-	-	-	-	-	3.257	-	-	7.061	-	-	4.826	-	-	-	-	-	4.826
Hardware - DWGU 120MM MORTAR TAIL CHARGE ASSEMBLY Cost																		
Recurring Cost																		
8.1.1) DWGU TAIL CHARGE ASSEMBLY	-	-	-	-	-	1.158	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	1.158	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - DWGU 120MM MORTAR TAIL CHARGE ASSEMBLY Cost	-	-	-	-	-	1.158	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
10.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	216.823	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	216.823	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost	-	-	216.823	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - SUPPORT Cost																		
11.1) Production Engineering Support	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - SUPPORT Cost	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	282.513	-	-	27.027	-	-	19.076	-	-	13.867	-	-	10.719	-	-	24.586
(†) indicates the presence of a P-5a																		

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1121 / 120 MM, All Types					Item Number / Title [DODIC]: 1 / 120 MM, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.1) CA31 COMPLETE ROUND - General Dynamics	✓	2015	GENERAL DYNAMICS / ST PETERSBURG, FL	SS / FFP	ROCK ISLAND	Mar 2015	Feb 2016	513	2,842.08	N		
2.1.2) CA31 COMPLETE ROUND - Alliant Tech	✓	2015	ALLIANT TECH SYS INC / PLYMOUTH, MN	SS / FFP	ROCK ISLAND	Mar 2015	Feb 2016	513	2,842.08	N		
4.1.1) CA45 COMPLETE ROUND		2013	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	May 2015	May 2016	4,720	2,656.75	Y		
4.1.1) CA45 COMPLETE ROUND	✓	2013	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	May 2015	May 2016	1,979	2,669.00	Y		
4.1.1) CA45 COMPLETE ROUND		2014	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	May 2015	May 2016	2,382	2,789.90	Y		
6.1.1) CA49 COMPLETE ROUND ^(†)	✓	2014	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Sep 2016	Mar 2018	1,423	6,680.96	N		
6.1.1) CA49 COMPLETE ROUND ^(†)		2015	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Mar 2017	Aug 2018	734	6,826.98	N		
6.1.1) CA49 COMPLETE ROUND ^(†)		2016	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Mar 2017	Aug 2018	1,275	7,084.50	N		
6.1.1) CA49 COMPLETE ROUND ^(†)	✓	2016	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Mar 2017	Aug 2018	1,513	7,084.50	N		
7.1.1) CA57 SYSTEM BUY		2014	RHEINMETALL / GERMANY	C / FFP	NSPS, EUROPE	Aug 2014	Feb 2016	339	9,607.67	N		
7.1.1) CA57 SYSTEM BUY		2015	RHEINMETALL / GERMANY	C / FFP	NSPS, EUROPE	Aug 2015	Aug 2016	340	9,555.88	N		
7.1.1) CA57 SYSTEM BUY	✓	2015	RHEINMETALL / GERMANY	C / FFP	NSPS, EUROPE	Aug 2015	Aug 2016	399	9,553.88	N		
7.1.1) CA57 SYSTEM BUY		2016	RHEINMETALL / GERMANY	C / FFP	MCSC, QUANTICO VA	Mar 2017	Mar 2018	503	9,594.43	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1121 / 120 MM, All Types										Item Number / Title [DODIC]: 1 / 120 MM, All Types												
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014										Fiscal Year 2015															
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										B A L					
							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	
6.1.1) CA49 COMPLETE ROUND																																
✓	1	2014	NAVY	1,423	-	1,423																										1,423
	1	2015	NAVY	734	-	734																										734
	1	2016	NAVY	1,275	-	1,275																										1,275
✓	1	2016	NAVY	1,513	-	1,513																										1,513
							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	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1121 / 120 MM, All Types													Item Number / Title [DODIC]: 1 / 120 MM, All Types										
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2016													Fiscal Year 2017													
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													B A L
							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			
6.1.1) CA49 COMPLETE ROUND																																	
✓	1	2014	NAVY	1,423	-	1,423												A -	-	-	-	-	-	-	-	-	-	-	-	-	-	1,423	
	1	2015	NAVY	734	-	734																		A -	-	-	-	-	-	-	-	734	
	1	2016	NAVY	1,275	-	1,275																		A -	-	-	-	-	-	-	-	1,275	
✓	1	2016	NAVY	1,513	-	1,513																		A -	-	-	-	-	-	-	-	1,513	
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1121 / 120 MM, All Types													Item Number / Title [DODIC]: 1 / 120 MM, All Types														
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2018												Fiscal Year 2019																		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												B A L						
							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							
6.1.1) CA49 COMPLETE ROUND																																					
✓	1	2014	NAVY	1,423	-	1,423	-	-	-	-	-	-	11	156	156	156	156	156	156	156	156	156	8											-			
	1	2015	NAVY	734	-	734	-	-	-	-	-	-	-	-	-	200	200	200	134													-					
	1	2016	NAVY	1,275	-	1,275	-	-	-	-	-	-	-	-	-	300	300	300	300	75													-				
✓	1	2016	NAVY	1,513	-	1,513	-	-	-	-	-	-	-	-	-	200	200	200	200	200	200	200	200	200	200	113											-
							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	B A L						

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1121 / 120 MM, All Types				Item Number / Title [DODIC]: 1 / 120 MM, All Types			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	GENERAL DYNAMICS - ST PETERSBURG, FL	200	400	4,500	18	-	18	18	18	-	17	17

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
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: 1388 / CTG 25 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10.034	1.887	-	-	-	-	-	3.285	-	-	-	15.206
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	10.034	1.887	-	-	-	-	-	3.285	-	-	-	15.206
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10.034	1.887	-	-	-	-	-	3.285	-	-	-	15.206
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The family of 25mm cartridges is fired from the M242 Automatic Cannon and consists of Armor Piercing rounds, designed to engage lightly armored vehicles, and High-Explosive Incendiary rounds designed to engage unarmored vehicles, helicopters, and suppress anti-tank and enemy squads positions. Additionally, there is a suite of 25mm Target Practice training rounds.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
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: 1388 / CTG 25 MM, All Types			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / CTG 25 MM, All Types	P-5		- / 10.034	- / 1.887	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 10.034	- / 1.887	- / -	- / -	- / -	- / -
*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 add due to rounding.								

Justification:

FY 2016 Base Appropriation Request: N/A

Present inventory of 25mm ammunition supports current requirements without procuring additional rounds.

OCO:

FY 2016 Overseas Contingency Operations (OCO) Request: N/A

Present inventory of 25mm ammunition supports current requirements without procuring additional rounds.

FY 2015 Overseas Contingency Operations (OCO): N/A

FY 2014 Overseas Contingency Operations (OCO): \$1.887M

Cartridge, A940, 25mm Target Practice Discarding Sabot with Tracer is not being procured at this time per the SMCA Cost Analysis Pricing Worksheet. The rounds were provided to USMC from Army stockpile.

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1388 / CTG 25 MM, All Types						Item Number / Title [DODIC]: 1 / CTG 25 MM, All Types							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				10.034		1.887		-		-		-		-					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				10.034		1.887		-		-		-		-					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				10.034		1.887		-		-		-		-					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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																			
1.1.2) A940 CONTAINER PA125		50.35	2,562	0.129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.3) A940 PRODUCTION ENGINEERING		-	-	0.067	-	-	1.887	-	-	-	-	-	-	-	-	-	-	-	
1.1.4) A940 QUALITY ASSURANCE		-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	0.201	-	-	1.887	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - A940, CTG, 25MM TPDS-T LINKED M910 Cost		-	-	0.201	-	-	1.887	-	-	-	-	-	-	-	-	-	-	-	
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																			
Non Recurring Cost																			
2.1.1) PRIOR YEARS CUMULATIVE FUNDING		-	-	9.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost		-	-	9.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost		-	-	9.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost		-	-	10.034	-	-	1.887	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
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: 1468 / Grenades, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	43.162	4.510	6.218	1.390	-	1.390	0.989	0.311	0.317	0.322	-	57.219
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	43.162	4.510	6.218	1.390	-	1.390	0.989	0.311	0.317	0.322	-	57.219
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	43.162	4.510	6.218	1.390	-	1.390	0.989	0.311	0.317	0.322	-	57.219
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description:</p> <p>Grenades, All Types, includes all Grenades, Pyrotechnics, and Land Mines. Grenade items, such as Grenade 66mm Smoke Screening, Vehicle Launched, MK 1 MOD 0 provides an obscuration device for Tanks, Track vehicles, and Light Armored Vehicles. Also, Practice Fuzes for the Practice Grenade are used for general-purposes to train in the use of the live fragmentation grenades. Incendiary Grenades provide the capability to produce flame and/or burn-melt an object/equipment, and is the primary source of intense heat, if required. Hand Riot CS Grenades are bursting type that dispenses riot control agent. These grenades are also used to simulate chemical agents during training exercises and are used for training in riot control countermeasures. Colored Smoke Grenades, M18 and M83, provide smoke for ground-to-air or ground-to-ground signaling.</p> <p>Pyrotechnic items for the most part, are hand held/employed explosive devices used to simulate actual expositions on the battlefield. They are used as signaling devices dependent on actual missions and/or training operations. Pyrotechnic items also provide Hand Held Illumination Parachutes and Cluster devices used for signaling ground troop emplacements and are occasionally used to signal aircraft. 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.</p> <p>The Battlefield Effects Simulator (BES) used by Marines are OMEGA 36/60 cartridges; LA44 - Simulator Signal & Illumination White Star, LA45 - Simulator, Airburst, LA46 - Simulator, Hostile Fire, and LA47 - Simulator, AT Stinger. These types of devices also teach Marines detection and precautionary measures, effects on the battlefield using simulated booby traps, and effects of Improvised Explosive Devices (IEDs). Additionally, capsules filled with chemical agent, ortho-chlorobenzylidene malano-nitrile (CS), are used to simulate a chemical-biological attack. This irritant is used on the Marine in training to ensure they can demonstrate the use of protection afforded by a properly fitted Chemical-Biological gas masks.</p> <p>Land Mines described are all types, to include the Inert/Practice/Trainer Land Mines for simulating use and/or employment. The M18A1 Anti-Personnel Mine (Claymore) is intended for use in a variety of ways, but for the most part, used as Anti-Personnel and are hand emplaced. This is the only Land Mine currently used, but in this budget cycle, is not procured by the USMC.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
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: 1468 / Grenades, All Types			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / Grenades, All Types	P-5, P-5a, P-21		- / 43.162	- / 4.510	- / 6.218	- / 1.390	- / -	- / 1.390
Total Gross/Weapon System Cost			- / 43.162	- / 4.510	- / 6.218	- / 1.390	- / -	- / 1.390
*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 add due to rounding.								
<p>Justification: FY 2016 Base Appropriation Request: \$1.390M This funding will be used to replenish munitions expended by Marine forces during training, preparation and rehearsals for combat engagements. Decrease in funds from FY15 to FY16 addresses the inventory surplus within the Total Munitions Requirement (TMR) objectives. The procurement includes OMEGA-36/60 Battlefield Effects Simulator (BES) cartridges LA44, LA45, LA46 and LA47.</p> <p>FY 2015 Base Appropriation: \$3.000M This funding is being used to replenish munitions that have been expended by Marine forces during training, preparation and rehearsals for combat engagements. Increase in funds from FY14 to FY15 addresses inflation and minor inventory shortfalls within Total Munitions Requirement (TMR) objectives. Procurement includes Gren, Hand Smoke M18 (Green) G940; Gren, Hand Smoke M18 (Yellow) G945; and Gren, Hand Smoke M83 (White) G982.</p> <p>FY 2014 Base Appropriation: \$2.899M This funding was used to replenish munitions that were expended by Marine forces during training, preparation and rehearsals for combat engagements. Procurement included ortho-chlorobenzylidene malano-nitrile (CS) Capsules K765 to support Chemical-Biological training and OMEGA-36/60 Battlefield Effects Simulator (BES) cartridges LA44, LA45, LA46 and LA47. All of these items were used to meet training requirements that were identified in the TMR.</p> <p>OCO: FY 2016 Overseas Contingency Operations (OCO) Request: N/A</p> <p>FY 2015 Overseas Contingency Operations (OCO): \$3.218M FY15 funding replenished items expended by Marine Forces during preparation, rehearsals, and combat engagements utilizing established tactics, techniques and procedures. Funds support the Total Munitions Requirement (TMR). Procurement includes Gren, Hand Smoke M18 (Green) G940; Gren, Hand Smoke M18 (Yellow) G945; and Gren, Hand Smoke M83 (White) G982. FY 15 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY 2014 Overseas Contingency Operations (OCO): \$1.611M FY14 funding replenishes items expended by Marine Forces during preparation, rehearsals, and combat engagements utilizing established tactics, techniques and procedures. Funds support the Total Munitions Requirement (TMR). and Procurement includes Gren, Hand Smoke M18 (Yellow) G945; Gren, Hand Smoke M83 (White) G982; 66mm Screening Smoke Grenades, MK1 MOD0; and funding for Engineering Support In Production (ESIP) for the L367, Simulator Launch Anti-Tank, M22. FY 14 funds supported Operation Enduring Freedom - Afghanistan (OEF-A)</p>								

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1468 / Grenades, All Types						Item Number / Title [DODIC]: 1 / Grenades, All Types							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				43.162		4.510		6.218		1.390		-		1.390					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				43.162		4.510		6.218		1.390		-		1.390					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				43.162		4.510		6.218		1.390		-		1.390					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - G940 GREN, HAND SMOKE M18, GREEN Cost																			
Recurring Cost																			
1.1.1) G940 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		31.37	24,256	0.761	-	-	-	30.76	54,561	1.678	-	-	-	-	-	-	-	-	
1.1.2) G940 FUZE, HAND GREN M201A ₁ ^(†)		4.76	25,220	0.120	-	-	-	5.55	39,330	0.218	-	-	-	-	-	-	-	-	
1.1.3) G940 GREN METAL PARTS SET ^(†)		1.68	27,894	0.047	-	-	-	1.90	54,307	0.103	-	-	-	-	-	-	-	-	
1.1.4) G940 PRODUCT ENGINEERING		-	-	0.025	-	-	-	-	-	0.142	-	-	-	-	-	-	-	-	
1.1.5) G940 QUALITY ASSURANCE		-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	0.953	-	-	-	-	-	2.146	-	-	-	-	-	-	-	-	
Subtotal: Hardware - G940 GREN, HAND SMOKE M18, GREEN Cost		-	-	0.953	-	-	-	-	-	2.146	-	-	-	-	-	-	-	-	
Hardware - G945 GREN, HAND SMOKE M18, YELLOW Cost																			
Recurring Cost																			
2.1.1) G945 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		33.98	22,631	0.769	33.50	13,462	0.451	33.60	46,434	1.560	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1468 / Grenades, All Types						Item Number / Title [DODIC]: 1 / Grenades, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
2.1.2) G945 FUZE, HAND GREN M201A1 ^(†)	4.76	23,536	0.112	4.97	20,123	0.100	5.55	39,459	0.219	-	-	-	-	-	-	-	-	-
2.1.3) G945 GREN METAL PARTS SET ^(†)	1.69	26,026	0.044	1.82	19,973	0.036	1.90	39,489	0.075	-	-	-	-	-	-	-	-	-
2.1.4) G945 PRODUCT ENGINEERING	-	-	0.027	-	-	0.024	-	-	0.169	-	-	-	-	-	-	-	-	-
2.1.5) G945 QUALITY ASSURANCE	-	-	0.001	-	-	0.005	-	-	0.013	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.953	-	-	0.616	-	-	2.036	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - G945 GREN, HAND SMOKE M18, YELLOW Cost	-	-	0.953	-	-	0.616	-	-	2.036	-	-	-	-	-	-	-	-	-
Hardware - G982 GREN, HAND SMOKE M83, WHITE Cost																		
Recurring Cost																		
3.1.1) G982 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	21.75	22,202	0.483	23.76	7,786	0.185	20.55	65,885	1.354	-	-	-	-	-	-	-	-	-
3.1.2) G982 FUZE, GREN HAND M201A1 ^(†)	4.74	16,448	0.078	4.98	10,033	0.050	5.55	54,831	0.304	-	-	-	-	-	-	-	-	-
3.1.3) G982 GREN METAL PARTS SET ^(†)	1.70	18,186	0.031	2.35	12,789	0.030	1.90	60,615	0.115	-	-	-	-	-	-	-	-	-
3.1.4) G982 PRODUCT ENGINEERING	-	-	0.170	-	-	0.015	-	-	0.251	-	-	-	-	-	-	-	-	-
3.1.5) G982 QUALITY ASSURANCE	-	-	0.020	-	-	0.005	-	-	0.012	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.782	-	-	0.285	-	-	2.036	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - G982 GREN, HAND SMOKE M83, WHITE Cost	-	-	0.782	-	-	0.285	-	-	2.036	-	-	-	-	-	-	-	-	-
Hardware - GG24 GREN 66MM SSVL MK 1 MOD 0 Cost																		
Recurring Cost																		
4.1.1) GG24 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	236.44	12,680	2.998	190.43	3,639	0.693	-	-	-	-	-	-	-	-	-	-	-	-
4.1.2) GG24 SPECIFICATIONS	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1468 / Grenades, All Types						Item Number / Title [DODIC]: 1 / Grenades, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:							
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
QUALIFICATION TEST																		
Subtotal: Recurring Cost	-	-	4.998	-	-	0.693	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - GG24 GREN 66MM SSVL MK 1 MOD 0 Cost	-	-	4.998	-	-	0.693	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - K765 RIOT CONTROL AGENT, CS Cost																		
Recurring Cost																		
5.1.1) K765 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	-	-	-	0.43	772,958	0.332	-	-	-	-	-	-	-	-	-	-	-	-
5.1.2) K765 PRODUCT ENGINEERING	-	-	0.300	-	-	0.035	-	-	-	-	-	-	-	-	-	-	-	-
5.1.3) K765 QUALITY ASSURANCE	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.300	-	-	0.369	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - K765 RIOT CONTROL AGENT, CS Cost	-	-	0.300	-	-	0.369	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - L367 SIMULATOR LAUNCH, ANTI-TANK M22 Cost																		
Non Recurring Cost																		
6.1.1) L367 PRODUCT ENGINEERING	-	-	-	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - L367 SIMULATOR LAUNCH, ANTI-TANK M22 Cost	-	-	-	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - LA44 SIMULATOR SIGNAL & ILLUM WHITE STAR Cost																		
Recurring Cost																		
7.1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5 ^(†)	-	-	-	6.89	103,193	0.711	-	-	-	6.99	68,955	0.482	-	-	-	6.99	68,955	0.482
7.1.2) LA44 PRODUCT ENGINEERING	-	-	0.100	-	-	0.060	-	-	-	-	-	0.040	-	-	-	-	-	0.040
7.1.3) LA44 QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	-	-	-	0.002	-	-	-	-	-	0.002

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1468 / Grenades, All Types						Item Number / Title [DODIC]: 1 / Grenades, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Recurring Cost	-	-	0.100	-	-	0.777	-	-	-	-	-	0.524	-	-	-	-	-	0.524
Subtotal: Hardware - LA44 SIMULATOR SIGNAL & ILLUM WHITE STAR Cost	-	-	0.100	-	-	0.777	-	-	-	-	-	0.524	-	-	-	-	-	0.524
Hardware - LA45 SIMULATOR AIRBURST Cost																		
Recurring Cost																		
8.1.1) LA45 SIMULATOR, AIRBURST GF 1.5 ^(†)	-	-	-	14.30	45,804	0.655	-	-	-	15.00	5,467	0.082	-	-	-	15.00	5,467	0.082
8.1.2) LA45 PRODUCT ENGINEERING	-	-	0.050	-	-	0.041	-	-	-	-	-	0.006	-	-	-	-	-	0.006
8.1.3) LA45 QUALITY ASSURANCE	-	-	-	-	-	0.001	-	-	-	-	-	0.001	-	-	-	-	-	0.001
Subtotal: Recurring Cost	-	-	0.050	-	-	0.697	-	-	-	-	-	0.089	-	-	-	-	-	0.089
Subtotal: Hardware - LA45 SIMULATOR AIRBURST Cost	-	-	0.050	-	-	0.697	-	-	-	-	-	0.089	-	-	-	-	-	0.089
Hardware - LA46 SIMULATOR HOSTILE FIRE Cost																		
Recurring Cost																		
9.1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5 ^(†)	-	-	-	7.20	98,611	0.710	-	-	-	7.50	86,266	0.647	-	-	-	7.50	86,266	0.647
9.1.2) LA46 PRODUCT ENGINEERING	-	-	0.100	-	-	0.040	-	-	-	-	-	0.037	-	-	-	-	-	0.037
9.1.3) LA46 QUALITY ASSURANCE	-	-	-	-	-	0.001	-	-	-	-	-	0.001	-	-	-	-	-	0.001
Subtotal: Recurring Cost	-	-	0.100	-	-	0.751	-	-	-	-	-	0.685	-	-	-	-	-	0.685
Subtotal: Hardware - LA46 SIMULATOR HOSTILE FIRE Cost	-	-	0.100	-	-	0.751	-	-	-	-	-	0.685	-	-	-	-	-	0.685
Hardware - LA47 SIMULATOR AT GUIDED MISSILE STINGER Cost																		
Recurring Cost																		
10.1.1) LA47 SIMULATOR, AT GM STINGER 1.5 ^(†)	-	-	-	11.41	23,138	0.264	-	-	-	13.00	6,538	0.085	-	-	-	13.00	6,538	0.085
10.1.2) LA47 PRODUCT ENGINEERING	-	-	0.050	-	-	0.040	-	-	-	-	-	0.006	-	-	-	-	-	0.006

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1468 / Grenades, All Types						Item Number / Title [DODIC]: 1 / Grenades, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
10.1.3) LA47 QUALITY ASSURANCE	-	-	-	-	-	0.001	-	-	-	-	-	0.001	-	-	-	-	-	0.001
Subtotal: Recurring Cost	-	-	0.050	-	-	0.305	-	-	-	-	-	0.092	-	-	-	-	-	0.092
Subtotal: Hardware - LA47 SIMULATOR AT GUIDED MISSILE STINGER Cost	-	-	0.050	-	-	0.305	-	-	-	-	-	0.092	-	-	-	-	-	0.092
Hardware - Prior Years Cumulative Funding Cost																		
Non Recurring Cost																		
11.1.1) Prior Years Cumulative Funding	-	-	34.876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	34.876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Prior Years Cumulative Funding Cost	-	-	34.876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	43.162	-	-	4.510	-	-	6.218	-	-	1.390	-	-	-	-	-	1.390

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1468 / Grenades, All Types				Item Number / Title [DODIC]: 1 / Grenades, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) G940 LOAD, ASSEMBLE, AND PACK (LAP)	✓	2013	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	ROCK ISLAND, IL	Mar 2013	Mar 2015	24,256	31.39	Y		Jan 2013
1.1.1) G940 LOAD, ASSEMBLE, AND PACK (LAP)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Sep 2017	22,052	30.76	Y		Jan 2015
1.1.1) G940 LOAD, ASSEMBLE, AND PACK (LAP)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Sep 2017	32,509	30.76	Y		Jan 2015
1.1.2) G940 FUZE, HAND GREN M201A1 ^(†)		2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	May 2015	Mar 2017	22,934	5.55	Y		Feb 2015
1.1.2) G940 FUZE, HAND GREN M201A1 ^(†)	✓	2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	May 2015	Mar 2017	16,396	5.55	Y		Feb 2015
1.1.3) G940 GREN METAL PARTS SET ^(†)		2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	25,360	1.90	Y		Feb 2015
1.1.3) G940 GREN METAL PARTS SET ^(†)	✓	2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	28,947	1.90	Y		Feb 2015
2.1.1) G945 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	✓	2014	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	ROCK ISLAND, IL	Jun 2014	Sep 2015	13,462	33.50	Y		Mar 2014
2.1.1) G945 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Jun 2016	20,750	33.60	Y		Jan 2015
2.1.1) G945 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Jun 2016	25,684	33.60	Y		Jan 2015
2.1.2) G945 FUZE, HAND GREN M201A1 ^(†)	✓	2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	Jun 2014	Jun 2015	20,123	4.97	Y		Mar 2014
2.1.2) G945 FUZE, HAND GREN M201A1 ^(†)		2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	21,621	5.55	Y		Feb 2015
2.1.2) G945 FUZE, HAND GREN M201A1 ^(†)	✓	2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	17,838	5.55	Y		Feb 2015
2.1.3) G945 GREN METAL PARTS SET ^(†)	✓	2014	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	Jun 2014	Jun 2015	19,973	1.82	Y		Mar 2014
2.1.3) G945 GREN METAL PARTS SET ^(†)		2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	23,700	1.90	Y		Feb 2015
2.1.3) G945 GREN METAL PARTS SET ^(†)	✓	2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	15,789	1.90	Y		Feb 2015
3.1.1) G982 LOAD, ASSEMBLE, AND PACK (LAP)	✓	2014	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	ROCK ISLAND, IL	Jun 2014	Sep 2015	7,786	23.76	Y		Mar 2014
3.1.1) G982 LOAD, ASSEMBLE, AND PACK (LAP)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Jun 2016	28,465	20.55	Y		Jan 2015

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1468 / Grenades, All Types				Item Number / Title [DODIC]: 1 / Grenades, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.1) G982 LOAD, ASSEMBLE, AND PACK (LAP)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Jun 2016	37,420	20.55	Y		Jan 2015
3.1.2) G982 FUZE, GREN HAND M201A1 ^(†)	✓	2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	Mar 2014	Mar 2015	10,033	4.98	Y		Jan 2014
3.1.2) G982 FUZE, GREN HAND M201A1 ^(†)		2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	29,591	5.55	Y		Feb 2015
3.1.2) G982 FUZE, GREN HAND M201A1 ^(†)	✓	2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	25,240	5.55	Y		Feb 2015
3.1.3) G982 GREN METAL PARTS SET ^(†)	✓	2014	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	Mar 2014	Mar 2015	12,789	2.35	Y		Jan 2014
3.1.3) G982 GREN METAL PARTS SET ^(†)		2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	32,721	1.90	Y		Feb 2015
3.1.3) G982 GREN METAL PARTS SET ^(†)	✓	2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	27,894	1.90	Y		Feb 2015
4.1.1) GG24 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)		2013	AMERICAN RHEINMETALL MUNITIONS / STAFFORD, VA	C / FFP	ROCK ISLAND, IL	May 2014	Dec 2014	12,680	236.43	Y		Mar 2013
4.1.1) GG24 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	✓	2014	AMERICAN RHEINMETALL MUNITIONS / STAFFORD, VA	C / FFP	ROCK ISLAND, IL	May 2014	Nov 2015	3,639	190.43	Y		Mar 2013
5.1.1) K765 LOAD, ASSEMBLE, AND PACK (LAP)		2014	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	Aug 2016	772,958	0.43	Y		Mar 2015
7.1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5 ^(†)		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	103,193	6.89	Y		Mar 2014
7.1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5 ^(†)		2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2016	Jun 2017	68,955	6.99	Y		Mar 2016
8.1.1) LA45 SIMULATOR, AIRBURST GF 1.5 ^(†)		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	45,804	14.30	Y		Mar 2014
8.1.1) LA45 SIMULATOR, AIRBURST GF 1.5 ^(†)		2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2016	Jun 2017	5,467	15.00	Y		Mar 2016
9.1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5 ^(†)		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	98,611	7.20	Y		Mar 2014
9.1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5 ^(†)		2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2016	Jun 2017	86,266	7.50	Y		Mar 2014
10.1.1) LA47 SIMULATOR, AT GM STINGER 1.5 ^(†)		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	23,138	11.41	Y		Mar 2014

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1468 / Grenades, All Types				Item Number / Title [DODIC]: 1 / Grenades, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
10.1.1) LA47 SIMULATOR, AT GM STINGER 1.5 ^(†)		2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2016	Jun 2017	6,538	13.00	Y		Mar 2016

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015													
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1468 / Grenades, All Types										Item Number / Title [DODIC]: 1 / Grenades, All Types													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2013										Fiscal Year 2014																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 2	BAL D U E A S O F 1 O C T	Calendar Year 2013										Calendar Year 2014										B A L						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P		
1.1.2) G940 FUZE, HAND GREN M201A1																																	
Prior Years Deliveries: 25220																																	
	1	2015	NAVY	22.934	-	22.934																										22.934	
✓	1	2015	NAVY	16.396	-	16.396																										16.396	
1.1.3) G940 GREN METAL PARTS SET																																	
Prior Years Deliveries: 27894																																	
	2	2015	NAVY	25.360	-	25.360																										25.360	
✓	2	2015	NAVY	28.947	-	28.947																										28.947	
2.1.1) G945 LOAD, ASSEMBLE, AND PACK (LAP)																																	
Prior Years Deliveries: 22631																																	
✓	3	2014	NAVY	13.462	-	13.462																							A -	-	-	-	13.462
	3	2015	NAVY	20.750	-	20.750																										20.750	
✓	3	2015	NAVY	25.684	-	25.684																										25.684	
2.1.2) G945 FUZE, HAND GREN M201A1																																	
Prior Years Deliveries: 23536																																	
✓	4	2014	NAVY	20.123	-	20.123																							A -	-	-	-	20.123
	4	2015	NAVY	21.621	-	21.621																										21.621	
✓	4	2015	NAVY	17.838	-	17.838																										17.838	
2.1.3) G945 GREN METAL PARTS SET																																	
Prior Years Deliveries: 26026																																	
✓	5	2014	NAVY	19.973	-	19.973																							A -	-	-	-	19.973
	6	2015	NAVY	23.700	-	23.700																										23.700	
✓	6	2015	NAVY	15.789	-	15.789																										15.789	
3.1.2) G982 FUZE, GREN HAND M201A1																																	
Prior Years Deliveries: 16448																																	
✓	7	2014	NAVY	10.033	-	10.033																						A -	-	-	-	-	10.033
	8	2015	NAVY	29.591	-	29.591																										29.591	
✓	8	2015	NAVY	25.240	-	25.240																										25.240	
3.1.3) G982 GREN METAL PARTS SET																																	
Prior Years Deliveries: 18186																																	
✓	9	2014	NAVY	12.789	-	12.789																						A -	-	-	-	-	12.789
	10	2015	NAVY	32.721	-	32.721																										32.721	
✓	10	2015	NAVY	27.894	-	27.894																										27.894	
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015													
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1468 / Grenades, All Types										Item Number / Title [DODIC]: 1 / Grenades, All Types													
Cost Elements (Units in Thousands)							Fiscal Year 2013										Fiscal Year 2014																
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 2	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014										B A L						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P		
4.1.1) GG24 LOAD, ASSEMBLE, AND PACK (LAP)																																	
	11	2013	NAVY	12.680	-	12.680																						A -	-	-	-	-	12.680
✓	11	2014	NAVY	3.639	-	3.639																						A -	-	-	-	-	3.639
7.1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5																																	
	12	2014	NAVY	103.193	-	103.193																						A -	-	-	-	-	103.193
	12	2016	NAVY	68.955	-	68.955																											68.955
8.1.1) LA45 SIMULATOR, AIRBURST GF 1.5																																	
	13	2014	NAVY	45.804	-	45.804																						A -	-	-	-	-	45.804
	13	2016	NAVY	5.467	-	5.467																											5.467
9.1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5																																	
	14	2014	NAVY	98.611	-	98.611																						A -	-	-	-	-	98.611
	14	2016	NAVY	86.266	-	86.266																											86.266
10.1.1) LA47 SIMULATOR, AT GM STINGER 1.5																																	
	15	2014	NAVY	23.138	-	23.138																						A -	-	-	-	-	23.138
	15	2016	NAVY	6.538	-	6.538																											6.538
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015													
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1468 / Grenades, All Types										Item Number / Title [DODIC]: 1 / Grenades, All Types													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2015										Fiscal Year 2016																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT							Calendar Year 2015										Calendar Year 2016										B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.2) G940 FUZE, HAND GREN M201A1																																	
Prior Years Deliveries: 25220																																	
	1	2015	NAVY	22.934	-	22.934									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.934
✓	1	2015	NAVY	16.396	-	16.396									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.396
1.1.3) G940 GREN METAL PARTS SET																																	
Prior Years Deliveries: 27894																																	
	2	2015	NAVY	25.360	-	25.360									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.360		-	
✓	2	2015	NAVY	28.947	-	28.947									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.947		-	
2.1.1) G945 LOAD, ASSEMBLE, AND PACK (LAP)																																	
Prior Years Deliveries: 22631																																	
✓	3	2014	NAVY	13.462	-	13.462	-	-	-	-	-	-	-	-	-	-	-	-	-	13.462												-	
	3	2015	NAVY	20.750	-	20.750								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.740	1.720	1.730	1.730	13.830
✓	3	2015	NAVY	25.684	-	25.684								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	2.500	2.500	2.500	16.184
2.1.2) G945 FUZE, HAND GREN M201A1																																	
Prior Years Deliveries: 23536																																	
✓	4	2014	NAVY	20.123	-	20.123	-	-	-	-	-	-	-	-	-	20.123																-	
	4	2015	NAVY	21.621	-	21.621									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	20.000	1.621		-	
✓	4	2015	NAVY	17.838	-	17.838									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	17.838			-	
2.1.3) G945 GREN METAL PARTS SET																																	
Prior Years Deliveries: 26026																																	
✓	5	2014	NAVY	19.973	-	19.973	-	-	-	-	-	-	-	-	-	19.973																-	
	6	2015	NAVY	23.700	-	23.700									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	23.700			-	
✓	6	2015	NAVY	15.789	-	15.789									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	15.789			-	
3.1.2) G982 FUZE, GREN HAND M201A1																																	
Prior Years Deliveries: 16448																																	
✓	7	2014	NAVY	10.033	-	10.033	-	-	-	-	-	-	10.033																			-	
	8	2015	NAVY	29.591	-	29.591									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	29.591			-	
✓	8	2015	NAVY	25.240	-	25.240									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	25.240			-	
3.1.3) G982 GREN METAL PARTS SET																																	
Prior Years Deliveries: 18186																																	
✓	9	2014	NAVY	12.789	-	12.789	-	-	-	-	-	-	12.789																			-	
	10	2015	NAVY	32.721	-	32.721									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	32.721			-	
✓	10	2015	NAVY	27.894	-	27.894									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	27.894			-	
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015																				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1468 / Grenades, All Types										Item Number / Title [DODIC]: 1 / Grenades, All Types																				
Cost Elements (Units in Thousands)							Fiscal Year 2015										Fiscal Year 2016																							
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 4	BAL D U E A S O F 1 O C T	Calendar Year 2015										Calendar Year 2016										B A L													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P									
4.1.1) GG24 LOAD, ASSEMBLE, AND PACK (LAP)																																								
	11	2013	NAVY	12.680	-	12.680	-	-	6.272	-	-	6.408																					-							
✓	11	2014	NAVY	3.639	-	3.639	-	-	-	-	-	-	-	-	-	-	-	-	3.639																					-
7.1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5																																								
	12	2014	NAVY	103.193	-	103.193	-	-	-	-	-	-	-	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	3.193											-					
	12	2016	NAVY	68.955	-	68.955																				A -	-	-	-	68.955										
8.1.1) LA45 SIMULATOR, AIRBURST GF 1.5																																								
	13	2014	NAVY	45.804	-	45.804	-	-	-	-	-	-	-	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.804											-						
	13	2016	NAVY	5.467	-	5.467																				A -	-	-	-	5.467										
9.1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5																																								
	14	2014	NAVY	98.611	-	98.611	-	-	-	-	-	-	-	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	8.611											-						
	14	2016	NAVY	86.266	-	86.266																				A -	-	-	-	86.266										
10.1.1) LA47 SIMULATOR, AT GM STINGER 1.5																																								
	15	2014	NAVY	23.138	-	23.138	-	-	-	-	-	-	-	5.000	5.000	5.000	5.000	3.138																					-	
	15	2016	NAVY	6.538	-	6.538																				A -	-	-	-	6.538										
							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	B A L									

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Exhibit P-21, Production Schedule: PB 2016 Navy																								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1468 / Grenades, All Types														Item Number / Title [DODIC]: 1 / Grenades, All Types										
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2017												Fiscal Year 2018															
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	BAL D U E A S O F 1 O C T				Calendar Year 2017												Calendar Year 2018												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
1.1.2) G940 FUZE, HAND GREN M201A1																																		
Prior Years Deliveries: 25220																																		
	1	2015	NAVY	22.934	-	22.934	-	-	-	-	-	-	22.934																		-			
✓	1	2015	NAVY	16.396	-	16.396	-	-	-	-	-	-	16.396																		-			
1.1.3) G940 GREN METAL PARTS SET																																		
Prior Years Deliveries: 27894																																		
	2	2015	NAVY	25.360	25.360	-																									-			
✓	2	2015	NAVY	28.947	28.947	-																									-			
2.1.1) G945 LOAD, ASSEMBLE, AND PACK (LAP)																																		
Prior Years Deliveries: 22631																																		
✓	3	2014	NAVY	13.462	13.462	-																									-			
	3	2015	NAVY	20.750	6.920	13.830	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.720																	-			
✓	3	2015	NAVY	25.684	9.500	16.184	2.500	2.500	2.500	2.500	2.500	2.500	1.184																	-				
2.1.2) G945 FUZE, HAND GREN M201A1																																		
Prior Years Deliveries: 23536																																		
✓	4	2014	NAVY	20.123	20.123	-																									-			
	4	2015	NAVY	21.621	21.621	-																									-			
✓	4	2015	NAVY	17.838	17.838	-																									-			
2.1.3) G945 GREN METAL PARTS SET																																		
Prior Years Deliveries: 26026																																		
✓	5	2014	NAVY	19.973	19.973	-																									-			
	6	2015	NAVY	23.700	23.700	-																									-			
✓	6	2015	NAVY	15.789	15.789	-																									-			
3.1.2) G982 FUZE, GREN HAND M201A1																																		
Prior Years Deliveries: 16448																																		
✓	7	2014	NAVY	10.033	10.033	-																									-			
	8	2015	NAVY	29.591	29.591	-																									-			
✓	8	2015	NAVY	25.240	25.240	-																									-			
3.1.3) G982 GREN METAL PARTS SET																																		
Prior Years Deliveries: 18186																																		
✓	9	2014	NAVY	12.789	12.789	-																									-			
	10	2015	NAVY	32.721	32.721	-																									-			
✓	10	2015	NAVY	27.894	27.894	-																									-			
							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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1468 / Grenades, All Types													Item Number / Title [DODIC]: 1 / Grenades, All Types									
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2017											Fiscal Year 2018														
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT				Calendar Year 2017											Calendar Year 2018											B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
4.1.1) GG24 LOAD, ASSEMBLE, AND PACK (LAP)																																
	11	2013	NAVY	12.680	12.680	-																						-				
✓	11	2014	NAVY	3.639	3.639	-																						-				
7.1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5																																
	12	2014	NAVY	103.193	103.193	-																						-				
	12	2016	NAVY	68.955	-	68.955	-	-	-	-	-	-	-	-	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	2.955			-			
8.1.1) LA45 SIMULATOR, AIRBURST GF 1.5																																
	13	2014	NAVY	45.804	45.804	-																						-				
	13	2016	NAVY	5.467	-	5.467	-	-	-	-	-	-	-	-	2.000	2.000	1.467												-			
9.1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5																																
	14	2014	NAVY	98.611	98.611	-																						-				
	14	2016	NAVY	86.266	-	86.266	-	-	-	-	-	-	-	-	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	6.266			-			
10.1.1) LA47 SIMULATOR, AT GM STINGER 1.5																																
	15	2014	NAVY	23.138	23.138	-																						-				
	15	2016	NAVY	6.538	-	6.538	-	-	-	-	-	-	-	-	3.000	3.000	.538												-			
							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	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1468 / Grenades, All Types				Item Number / Title [DODIC]: 1 / Grenades, All Types			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	CHEMRING ORDNANCE, INC. - PERRY,FL	500,000	1,000,000	1,500,000	80	8	18	26	6	6	10	16
2	TBD - TBD	-	-	-	-	-	-	-	-	-	-	-
3	PINE BLUFF ARSENAL - PINE BLUFF, AR	60,000	112,000	268,000	8	8	18	26	6	6	15	21
4	CHEMRING ORDNANCE, INC. - PERRY,FL	500,000	1,000,000	1,500,000	8	8	12	20	6	6	12	18
5	TOOL MASTERS INC - TUSCUMBIA, AL	25,000	50,000	100,000	8	8	18	26	6	6	12	18
6	TBD - TBD	-	-	-	-	-	-	-	-	-	-	-
7	CHEMRING ORDNANCE, INC. - PERRY,FL	500,000	1,000,000	1,500,000	8	8	18	26	6	6	12	18
8	TBD - TBD	-	-	-	-	-	-	-	-	-	-	-
9	TOOL MASTERS INC - TUSCUMBIA, AL	25,000	50,000	100,000	8	8	18	26	6	6	12	18
10	TBD - TBD	-	-	-	-	-	-	-	-	-	-	-
11	AMERICAN RHEINMETALL MUNITIONS - STAFFORD, VA	2,000	8,000	18,000	8	8	18	26	6	6	12	18
12	CHEMRING ORDNANCE, INC. - PERRY,FL	50,000	100,000	150,000	6	6	12	18	6	6	12	18
13	CHEMRING ORDNANCE, INC. - PERRY,FL	50,000	100,000	150,000	6	6	12	18	6	6	12	18
14	CHEMRING ORDNANCE, INC. - PERRY,FL	50,000	100,000	150,000	6	6	12	18	6	6	12	18
15	CHEMRING ORDNANCE, INC. - PERRY,FL	50,000	100,000	150,000	6	6	12	18	6	6	12	18

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1471 / Rockets, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	110.512	-	20.495	14.967	3.993	18.960	9.904	36.968	10.265	10.447	-	217.551
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	110.512	-	20.495	14.967	3.993	18.960	9.904	36.968	10.265	10.447	-	217.551
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	110.512	-	20.495	14.967	3.993	18.960	9.904	36.968	10.265	10.447	-	217.551
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description:</p> <p>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:</p> <p>The Cartridge and Launcher, C995 84mm M136 AT (Anti-Tank)-4 is mainly employed against armored personnel carriers. However, it can be used against battle tanks when fired at the flanks or rear. It can also be employed as an assault weapon against bunkers, field fortifications, and other hard-point positions. Issued as one round of ammunition, the AT-4 tactical round is a self-contained, lightweight, disposable weapon.</p> <p>The HA29 M72A7 Tactical Rocket, High Explosive anti-armor weapon is a lightweight, single shot, disposable weapon optimized to defeat light armored vehicles and other hard targets at close combat ranges.</p> <p>The HX06 Rocket, 83mm High Explosive Anti-Armor (HEAA) Shoulder Mounted Assault Weapon (SMAW) Rocket is designed especially for use against main battle tanks and other armored vehicles. The HX06 is unguided, dual mode, high explosive rocket contained in a disposable one-shot rocket container.</p> <p>The HX07 Rocket, 83mm Common Practice (CP) Shoulder Mounted Assault Weapon (SMAW). The CP round is an unguided shoulder fired practice rocket designed to simulated firing a live rocket at hardend targets.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy					Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition				P-1 Line Item Number / Title: 1471 / Rockets, All Types				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / Rockets, All Types	P-5, P-5a, P-21		- / 110.512	- / -	- / 20.495	- / 14.967	- / 3.993	- / 18.960
Total Gross/Weapon System Cost			- / 110.512	- / -	- / 20.495	- / 14.967	- / 3.993	- / 18.960
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.								
Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.								

Justification:

FY 2016 Base Appropriation Request: \$14.967M.

Funds will support the procurement of HX07 83mm Common Practice (CP) Shoulder Mounted Assault Weapon (SMAW) to replenish munitions that are required for or have been expended by Marine forces during training, preparation and rehearsals for combat engagements.

FY 2015 Base Appropriation: \$12.853M.

Funds support the procurement of HX07 83mm Common Practice (CP) Shoulder Mounted Assault Weapon (SMAW). These assets replenish munitions that have been expended by Marine forces during training, preparation and rehearsals for combat engagements.

OCO:

FY 2016 Overseas Contingency Operations (OCO) Request: \$3.993M.

Funds will procure HX07 83mm Common Practice (CP) Shoulder Mounted Assault Weapon (SMAW) to replenish munitions that have been expended by Marine forces during training, preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY16 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

FY 2015 Overseas Contingency Operations (OCO): \$7.642M.

Funds support the procurement of C995 84mm M136 AT-4 ammunition, the HA29 66mm shoulder fired rocket and the HX07 83mm Common Practice (CP) Shoulder Mounted Assault Weapon (SMAW). These assets replenish munitions that have been expended by Marine forces during training, preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY15 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1471 / Rockets, All Types						Item Number / Title [DODIC]: 1 / Rockets, All Types							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-					
Gross/Weapon System Cost (<i>\$ in Millions</i>)				110.512		-		20.495		14.967		3.993		18.960					
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Net Procurement (P1) (<i>\$ in Millions</i>)				110.512		-		20.495		14.967		3.993		18.960					
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Total Obligation Authority (<i>\$ in Millions</i>)				110.512		-		20.495		14.967		3.993		18.960					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - C995 Rocket, 84MM M136 AT-4 Cost																			
Recurring Cost																			
1.1.1) C995 COMPLETE ROUND ^(†)		1,401.74	1,379	1.933	-	-	-	2,500.00	414	1.035	-	-	-	-	-	-	-	-	
1.1.2) C995, PRODUCTION ENGINEERING		-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	1.933	-	-	-	-	-	1.036	-	-	-	-	-	-	-	-	
Subtotal: Hardware - C995 Rocket, 84MM M136 AT-4 Cost		-	-	1.933	-	-	-	-	-	1.036	-	-	-	-	-	-	-	-	
Hardware - HA29 Rocket, 66MM HE M72A7 W/ GRAZE Cost																			
Recurring Cost																			
2.1.1) HA29 COMPLETE ROUND ^(†)		2,542.36	27,406	69.676	-	-	-	2,931.33	532	1.559	-	-	-	-	-	-	-	-	
2.1.2) HA29 PRODUCTION ENGINEERING		-	-	-	-	-	-	-	-	0.514	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	69.676	-	-	-	-	-	2.073	-	-	-	-	-	-	-	-	
Subtotal: Hardware - HA29 Rocket, 66MM HE M72A7 W/ GRAZE Cost		-	-	69.676	-	-	-	-	-	2.073	-	-	-	-	-	-	-	-	
Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost																			
Recurring Cost																			

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1471 / Rockets, All Types						Item Number / Title [DODIC]: 1 / Rockets, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
4.1.1) HX07 COMPLETE ROUND ^(†)	5,544.14	5,131	28.447	-	-	-	5,409.07	3,116	16.855	5,409.07	2,674	14.464	5,409.07	738	3.992	5,409.07	3,412	18.456
4.1.2) HX07, PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	0.531	-	-	0.503	-	-	0.001	-	-	0.504
<i>Subtotal: Recurring Cost</i>	-	-	28.447	-	-	-	-	-	17.386	-	-	14.967	-	-	3.993	-	-	18.960
<i>Subtotal: Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost</i>	-	-	28.447	-	-	-	-	-	17.386	-	-	14.967	-	-	3.993	-	-	18.960
Hardware - Cumulative PY Funding Cost																		
Non Recurring Cost																		
5.1.1) Cumulative PY Funding	-	-	10.456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	10.456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Cumulative PY Funding Cost</i>	-	-	10.456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	110.512	-	-	-	-	-	20.495	-	-	14.967	-	-	3.993	-	-	18.960

Remarks:
 [Hardware] The contract award for HA29 in FY13 and FY15 was combined to maximize cost savings achieved by consolidation of funding.

 [Hardware] The Rockets, All Types line, HX07 Rocket 83MM HEAA PRACTICE, was reduced by \$4M in FY15 due to contract delay. The contract award for HX07 in FY13 and FY15 was combined to maximize cost savings achieved by consolidation of funding.

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1471 / Rockets, All Types						Item Number / Title [DODIC]: 1 / Rockets, All Types			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) C995 COMPLETE ROUND ^(†)	✓	2015	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	Jun 2015	Dec 2015	414	2,500.00	N	Jun 2015	
2.1.1) HA29 COMPLETE ROUND ^(†)	✓	2013	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	1,079	2,827.30	Y		May 2014
2.1.1) HA29 COMPLETE ROUND ^(†)	✓	2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	532	2,931.33	Y		May 2014
4.1.1) HX07 COMPLETE ROUND ^(†)		2013	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	May 2015	Dec 2017	5,131	5,021.00	N	Jun 2014	
4.1.1) HX07 COMPLETE ROUND ^(†)		2015	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	May 2015	Dec 2017	2,278	5,409.07	N	Jun 2014	
4.1.1) HX07 COMPLETE ROUND ^(†)	✓	2015	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	May 2015	Dec 2017	838	5,409.07	N	Jun 2014	
4.1.1) HX07 COMPLETE ROUND ^(†)		2016	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	Mar 2016	Jul 2018	2,674	5,409.07	N	Jun 2014	
4.1.1) HX07 COMPLETE ROUND ^(†)	✓	2016	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	Mar 2016	Jul 2018	738	5,409.07	N	Jun 2014	
^(†) indicates the presence of a P-21												

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1471 / Rockets, All Types													Item Number / Title [DODIC]: 1 / Rockets, All Types											
Cost Elements (Units in Each)							Fiscal Year 2015													Fiscal Year 2016														
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													B A L	
							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) C995 COMPLETE ROUND																																		
Prior Years Deliveries: 1379																																		
✓	1	2015	NAVY	414	-	414									A -	-	-	-	-	-	-	414												-
2.1.1) HA29 COMPLETE ROUND																																		
Prior Years Deliveries: 26327																																		
✓	2	2013	NAVY	1,079	-	1,079									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,079	
✓	2	2015	NAVY	532	-	532									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	532	
4.1.1) HX07 COMPLETE ROUND																																		
	3	2013	NAVY	5,131	-	5,131									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,131	
	3	2015	NAVY	2,278	-	2,278									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,278	
✓	3	2015	NAVY	838	-	838									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	838	
	3	2016	NAVY	2,674	-	2,674																											2,674	
✓	3	2016	NAVY	738	-	738																											738	
							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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy																					Date: February 2015												
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1471 / Rockets, All Types											Item Number / Title [DODIC]: 1 / Rockets, All Types												
Cost Elements <i>(Units in Each)</i>								Fiscal Year 2017												Fiscal Year 2018													
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												BAL		
							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) C995 COMPLETE ROUND																																	
Prior Years Deliveries: 1379																																	
✓	1	2015	NAVY	414	414	-																										-	
2.1.1) HA29 COMPLETE ROUND																																	
Prior Years Deliveries: 26327																																	
✓	2	2013	NAVY	1,079	-	1,079	-	-	-	-	-	-	-	200	200	200	200	200	79													-	
✓	2	2015	NAVY	532	-	532	-	-	-	-	-	-	-	200	200	132																	-
4.1.1) HX07 COMPLETE ROUND																																	
	3	2013	NAVY	5,131	-	5,131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,308	1,308	1,308	1,207								-	
	3	2015	NAVY	2,278	-	2,278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	614	614	614	436								-	
✓	3	2015	NAVY	838	-	838	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150	150	150	150	88						-	
	3	2016	NAVY	2,674	-	2,674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	558	558	558	1,000		
✓	3	2016	NAVY	738	-	738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	738				-	
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1471 / Rockets, All Types										Item Number / Title [DODIC]: 1 / Rockets, All Types														
Cost Elements <i>(Units in Each)</i>								Fiscal Year 2019												Fiscal Year 2020														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												B A L			
							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) C995 COMPLETE ROUND																																		
Prior Years Deliveries: 1379																																		
✓	1	2015	NAVY	414	414	-																										-		
2.1.1) HA29 COMPLETE ROUND																																		
Prior Years Deliveries: 26327																																		
✓	2	2013	NAVY	1,079	1,079	-																										-		
✓	2	2015	NAVY	532	532	-																										-		
4.1.1) HX07 COMPLETE ROUND																																		
	3	2013	NAVY	5,131	5,131	-																										-		
	3	2015	NAVY	2,278	2,278	-																										-		
✓	3	2015	NAVY	838	838	-																										-		
	3	2016	NAVY	2,674	1,674	1,000	558	442																										-
✓	3	2016	NAVY	738	738	-	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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1471 / Rockets, All Types				Item Number / Title [DODIC]: 1 / Rockets, All Types		

		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	TBD - TBD	-	-	-	-	9	6	15	-	9	6	15
2	NAMMO Talley Defense Systems - Mesa, AZ	1,000	2,500	10,000	12	12	12	24	12	12	12	24
3	TBD - TBD	1,000	2,500	10,000	8	8	31	39	6	6	28	34

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1473 / Artillery, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	353.265	1.035	42.357	45.219	67.200	112.419	55.384	61.251	67.394	115.888	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	353.265	1.035	42.357	45.219	67.200	112.419	55.384	61.251	67.394	115.888	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	353.265	1.035	42.357	45.219	67.200	112.419	55.384	61.251	67.394	115.888	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The family of 155MM artillery is separate loading ammunition fired from M777 howitzers, and have four separate components: 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. Infrared Spectrum provides a decisive advantage while using Night Vision Devices. Smoke cartridges are used to provide obscuration on the battlefield and to mark locations. Obscuration rounds are used to build a smoke screen to provide cover for the maneuver unit from enemy observation.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition					P-1 Line Item Number / Title: 1473 / Artillery, All Types			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
Artillery, All Types	P-40a, P-5a, P-21		- / 353.265	- / 1.035	- / 42.357	- / 45.219	- / 67.200	- / 112.419
Total Gross/Weapon System Cost			- / 353.265	- / 1.035	- / 42.357	- / 45.219	- / 67.200	- / 112.419
*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 add due to rounding.								
<p>Justification: FY2016 Base Appropriation Request: \$45.219M. This funding will be used to replenish munitions that have been expended by Marine forces during training, preparation and rehearsals for combat engagements. This funding will procure 155MM artillery ammunition to support the total munitions requirement as identified by the requirements division. The increase of funds from FY15 to FY16 will assist in meeting the total munitions requirement for 155MM artillery ammunition.</p> <p>FY2015 Base Appropriation: \$12.068M. Procures 155MM artillery ammunition to support total munitions requirement as identified by Combat Development and Integration. Procures DA54 (155MM IMX-101) artillery projectile. Procures DA49 (155MM Infrared Illumination) artillery projectile. Provides Engineering Support for DA13 (MACS Propelling Charge).</p> <p>FY2014 Base Appropriation: \$.065M. These funds supported First Destination Transportation Charges.</p> <p>OCO: FY2016 Overseas Contingency Operations (OCO) Request: \$67.200M. This funding will be used to replenish munitions that have been expended by Marine forces during training, preparation and combat engagements utilizing established tactics, techniques and procedures. The FY16 OCO funding resets munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY2015 Overseas Contingency Operations (OCO): \$30.289M. Procures artillery ammunition for replenishment of munitions that have been expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. Procures M231 MACS Propelling Charge, M232 MACS Propelling Charge, 155MM Infrared Illumination (Replacement for DA49), 155MM IMX-101 HE, and 155MM Illumination (Replacement for D505). FY15 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY2014 Overseas Contingency Operations (OCO): \$.970M. Procured 155MM artillery ammunition for replenishment of munitions that were expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. Procured M232 MACS Dummy Propelling Charge, M231 MACS Dummy Propelling Charge, 120mm Saluting Charge and 40MM Saluting Charge. FY14 funding supported Operation Enduring Freedom -Afghanistan (OEF-A).</p>								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1473 / Artillery, All Types									Aggregated Items Title: Artillery, All Types						
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
1) B550, CTG, 40MM BLANK SALUTING SNGL RD																					
1.1) B550 LOAD, ASSEMBLY, PACK (LAP) ^(†)	A		-	-	-	44.79	7,278	0.326	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) CTG CASE MK3	A		-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.3) PRIMER PERCUSSION MK22-2 ^(†)	A		-	-	0.001	160.04	65	0.010	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) QUALITY ASSURANCE			-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-	-	-	-	
1.5) DETERIORATION TEST			-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-	-	-	-	
1.6) CARTRIDGE CASE SCREENING			-	-	-	-	-	0.023	-	-	-	-	-	-	-	-	-	-	-	-	
1.7) FIRST ARTICLE TEST	A		-	-	-	-	-	0.009	-	-	-	-	-	-	-	-	-	-	-	-	
1.8) GOVERNMENT FURNISHED MATERIAL-B550	A		-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) B550, CTG, 40MM BLANK SALUTING SNGL RD			-	-	0.003	-	-	0.397	-	-	-	-	-	-	-	-	-	-	-	-	
2) C025, CTG, 75MM BLANK M337A2																					
2.1) C025 LOAD, ASSEMBLE, PACK (LAP) ^(†)	A		-	-	-	89.85	3,161	0.284	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) C025 PRODUCTION ENGINEERING			-	-	0.034	-	-	0.031	-	-	-	-	-	-	-	-	-	-	-	-	
2.3) QUALITY ASSURANCE	A		-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	
2.4) GOVERNMENT FURNISHED MATERIAL-C025	A		-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.5) BLACK POWDER CLASS 1	A		-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) C025, CTG, 75MM BLANK M337A2			-	-	0.036	-	-	0.316	-	-	-	-	-	-	-	-	-	-	-	-	
3) D505, PROJ, 155MM, M485A2, ILLUM																					
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ^{(1)(†)}	A		-	-	-	-	-	-	290.49	3,738	1.086	-	-	-	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1								P-1 Line Item Number / Title: 1473 / Artillery, All Types								Aggregated Items Title: Artillery, All Types			

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
3.2) DOWNLOAD, CLEAN AND INSPECT ^(†)	A		-	-	-	-	-	-	98.34	3,924	0.386	-	-	-	-	-	-	-	-	-
3.3) D505 METAL PARTS SETS ^(†)	A		-	-	-	-	-	-	322.51	3,737	1.205	-	-	-	-	-	-	-	-	-
3.4) D505 ILLUM CANNISTER, 155MM ^(†)	A		-	-	-	-	-	-	379.76	3,812	1.448	-	-	-	-	-	-	-	-	-
3.5) D505 CANISTER MPTS ASSY, 155MM ILLUM ^(†)	A		-	-	-	-	-	-	58.49	3,812	0.223	-	-	-	-	-	-	-	-	-
3.6) D505 CANISTER BASE ASSY, 155MM ILLUM ^(†)	A		-	-	-	-	-	-	18.30	3,812	0.070	-	-	-	-	-	-	-	-	-
3.7) D505 M10 EXPULSION CHARGE ASSEMBLY ^(†)	A		-	-	-	-	-	-	16.28	3,812	0.062	-	-	-	-	-	-	-	-	-
3.8) D505 PARACHUTE MAIN, 155MM ILLUM ^(†)	A		-	-	-	-	-	-	46.38	3,812	0.177	-	-	-	-	-	-	-	-	-
3.9) D505 PARACHUTE MAIN SUPPORTS, 155MM ILLUM ^(†)	A		-	-	-	-	-	-	3.12	15,250	0.048	-	-	-	-	-	-	-	-	-
3.10) D505 PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM ^(†)	A		-	-	-	-	-	-	20.29	3,812	0.077	-	-	-	-	-	-	-	-	-
3.11) D505 DELAY ELEMENT, 155MM ILLUM ^(†)	A		-	-	-	-	-	-	32.42	3,812	0.124	-	-	-	-	-	-	-	-	-
3.12) D505 WOOD PALLET (HEAT TREATED) ^(†)	A		-	-	-	-	-	-	86.63	485	0.042	-	-	-	-	-	-	-	-	-
3.13) D505 PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-
3.14) D505 ACCEPTANCE TESTING	A		-	-	-	-	-	-	-	-	0.034	-	-	-	-	-	-	-	-	-
Subtotal: 3) D505, PROJ, 155MM, M485A2, ILLUM			-	-	0.000	-	-	-	-	-	5.182	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1473 / Artillery, All Types									Aggregated Items Title: Artillery, All Types					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) D529, PROJ, 155MM, M795 HE (DA54)																				
4.1) D529 Prior Year Funding	A		-	-	94.246	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) D529 LOAD, ASSEMBLE & PACK (LAP) ^(†)	A		104.34	185,670	19.372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) D529, PROJ, 155MM, M795 HE (DA54)			-	-	113.618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) DA12, CHG, 155MM, M231, MOD ARTY CHG SYS																				
5.1) DA12 LOAD, ASSEMBLE & PACK (LAP) ^(†)	A		16.30	375,706	6.124	-	-	-	16.32	47,181	0.770	-	-	-	-	-	-	-	-	-
5.2) DA12 CONTAINER M231	A		39.03	96,779	3.777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.3) DA12 BLACK POWDER, M231 ^(†)	A		13.58	22,977	0.312	-	-	-	14.75	4,000	0.059	-	-	-	-	-	-	-	-	-
5.4) DA12 PROPELLANT, PAPP7993 ^(†)	A		8.74	1,384,457	12.107	-	-	-	8.35	168,023	1.403	-	-	-	-	-	-	-	-	-
5.5) DA12 IGNITION PROPELLANT, MACS	A		8.93	24,744	0.221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.6) DA12 COMBUSTIBLE CASES ^(†)	A		33.38	387,132	12.923	-	-	-	41.00	48,585	1.992	-	-	-	-	-	-	-	-	-
5.7) DA12 PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	0.874	-	-	-	-	-	-	-	-	-
5.8) DA12 ACCEPTANCE TESTING	A		-	-	-	-	-	-	-	-	0.084	-	-	-	-	-	-	-	-	-
Subtotal: 5) DA12, CHG, 155MM, M231, MOD ARTY CHG SYS			-	-	35.464	-	-	-	-	-	5.182	-	-	-	-	-	-	-	-	-
6) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS																				
6.1) DA13 LOAD, ASSEMBLE & PACK (LAP) ^(†)	A		18.94	313,390	5.935	-	-	-	18.54	28,802	0.534	-	-	-	-	-	-	-	-	-
6.2) DA13 IGNITION PROPELLANT ^(†)	A		8.91	19,873	0.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) DA13 COMBUSTIBLE CASES ^(†)	A		34.62	326,225	11.295	-	-	-	41.00	29,658	1.216	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1								P-1 Line Item Number / Title: 1473 / Artillery, All Types								Aggregated Items Title: Artillery, All Types			

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.4) DA13 BLACK POWDER CLASS 1 (LB) ^(†)	A		13.72	19,389	0.266	-	-	-	14.75	2,508	0.037	-	-	-	-	-	-	-	-	-
6.5) DA13 PROPELLANT M31A2 ^(†)	A		14.46	1,517,825	21.943	-	-	-	16.91	143,997	2.435	-	-	-	-	-	-	-	-	-
6.6) DA13 CONTAINER M232A1 ^(†)	A		41.71	58,134	2.425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.7) DA13 PRODUCTION ENGINEERING			-	-	2.071	-	-	-	-	-	1.105	-	-	-	-	-	-	-	-	-
6.8) DA13 ACCEPTANCE TESTING			-	-	0.573	-	-	-	-	-	0.055	-	-	-	-	-	-	-	-	-
<i>Subtotal: 6) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS</i>			-	-	44.685	-	-	-	-	-	5.382	-	-	-	-	-	-	-	-	-
7) DA23, CHG, 155MM, M231 MOD ARTY CHG SYS DUMMY																				
7.1) DA23 COMPLETE ROUND ^(†)	A		200.00	155	0.031	200.00	575	0.115	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 7) DA23, CHG, 155MM, M231 MOD ARTY CHG SYS DUMMY</i>			-	-	0.031	-	-	0.115	-	-	-	-	-	-	-	-	-	-	-	-
8) DA24, CHG, 155MM, M232A1 MOD ARTY CHG SYS DUMMY																				
8.1) DA24 COMPLETE ROUND ^(†)	A		200.00	190	0.038	200.00	710	0.142	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 8) DA24, CHG, 155MM, M232A1 MOD ARTY CHG SYS DUMMY</i>			-	-	0.038	-	-	0.142	-	-	-	-	-	-	-	-	-	-	-	-
9) DA49, 155MM, IR ILLUM																				
9.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^{(2)(†)}	A		263.43	2,661	0.701	-	-	-	290.49	5,454	1.585	-	-	-	-	-	-	-	-	-
9.2) DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE ^(†)	A		-	-	-	-	-	-	98.34	5,727	0.563	-	-	-	-	-	-	-	-	-
9.3) M10 EXPULSION CHARGE ASSY ^(†)	A		-	-	-	-	-	-	16.28	5,563	0.091	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1473 / Artillery, All Types									Aggregated Items Title: Artillery, All Types					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) DA49 METAL PARTS SET ^(†)	A		-	-	-	-	-	-	322.51	5,454	1.759	-	-	-	-	-	-	-	-	-
9.5) DA49 IR ILLUM CANISTER, 155MM ^(†)	A		326.23	2,768	0.903	-	-	-	379.76	5,563	2.112	-	-	-	-	-	-	-	-	-
9.6) DA49 PARACHUTE, MAIN ^(†)	A		34.41	2,703	0.093	-	-	-	46.38	5,563	0.258	-	-	-	-	-	-	-	-	-
9.7) DA49 DELAY ELEMENT ^(†)	A		30.00	2,733	0.082	-	-	-	32.42	5,563	0.181	-	-	-	-	-	-	-	-	-
9.8) DA49 CANISTER, MPTS ASSY ^(†)	A		53.99	2,741	0.148	-	-	-	58.49	5,563	0.325	-	-	-	-	-	-	-	-	-
9.9) DA49 PARACHUTE, MAIN SUPPORTS ^(†)	A		2.96	10,811	0.032	-	-	-	3.12	22,252	0.070	-	-	-	-	-	-	-	-	-
9.10) DA49 PARACHUTE, DROGUE ASSY ^(†)	A		16.70	2,754	0.046	-	-	-	20.29	5,563	0.113	-	-	-	-	-	-	-	-	-
9.11) DA49 CANISTER, BASE ASSY ^(†)	A		17.15	2,741	0.047	-	-	-	18.30	5,563	0.101	-	-	-	-	-	-	-	-	-
9.12) DA49 WOOD PALLET (HEAT TREATED) ^(†)	A		-	-	-	-	-	-	86.63	709	0.061	-	-	-	-	-	-	-	-	-
9.13) DA49 PRODUCTION ENGINEERING			-	-	0.010	-	-	-	-	-	0.120	-	-	-	-	-	-	-	-	-
9.14) DA49 ACCEPTANCE TESTING			-	-	0.110	-	-	-	-	-	0.041	-	-	-	-	-	-	-	-	-
Subtotal: 9) DA49, 155MM, IR ILLUM			-	-	2.172	-	-	-	-	-	7.380	-	-	-	-	-	-	-	-	-
10) FIRST DESTINATION TRANSPORTATION																				
10.1) First Destination Transportation			-	-	1.080	-	-	0.065	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 10) FIRST DESTINATION TRANSPORTATION			-	-	1.080	-	-	0.065	-	-	-	-	-	-	-	-	-	-	-	-
11) DA54 155MM HE M795 W/IMX																				
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)	A		325.00	77,313	25.127	-	-	-	342.18	16,779	5.741	349.00	40,974	14.300	349.00	40,846	14.255	349.00	81,820	28.555

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1								P-1 Line Item Number / Title: 1473 / Artillery, All Types								Aggregated Items Title: Artillery, All Types			

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
11.2) DA54 METAL PARTS-M795 ^(†)	A		368.40	78,859	29.052	-	-	-	-	-	-	495.32	23,763	11.770	495.32	41,662	20.636	495.32	65,425	32.406
11.3) *METAL PARTS M795 (GFM)	A		-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.4) DA54 PLUG, LIFTING, MELTABLE FOR IM ^(†)	A		16.98	78,859	1.339	-	-	-	19.11	17,186	0.328	19.49	23,764	0.463	19.49	41,664	0.812	19.49	65,428	1.275
11.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9 ^(†)	A		23.08	78,859	1.820	-	-	-	25.16	17,197	0.432	25.66	23,740	0.609	25.66	41,664	1.069	25.66	65,404	1.678
11.6) DA54 WOODEN PALLETS, IMX-101 ^(†)	A		96.02	10,050	0.965	-	-	-	89.62	2,169	0.194	91.40	3,025	0.276	91.40	5,310	0.485	91.40	8,335	0.761
11.7) DA54 EXPLOSIVE FILL IMX-101 ^{(3)(†)}	A		12.65	2,551,329	32.274	-	-	-	21.04	553,740	11.650	22.05	768,820	16.952	22.05	1,347,951	29.722	22.05	2,116,771	46.674
11.8) DA54 EXPLOSIVE FILL IMX-104 ^(†)	A		20.67	278,327	5.753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.9) DA54 PRODUCTION ENGINEERING			-	-	0.883	-	-	-	-	-	0.803	-	-	0.721	-	-	-	-	-	0.721
11.10) DA54 ACCEPTANCE TESTING			-	-	1.235	-	-	-	-	-	0.083	-	-	0.128	-	-	0.221	-	-	0.349
11.11) GOVERNMENT FURNISHED MATERIAL	A		-	-	0.150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.12) INSENSITIVE MUNITIONS	A		-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 11) DA54 155MM HE M795 W/IMX</i>			-	-	98.600	-	-	-	-	-	19.231	-	-	45.219	-	-	67.200	-	-	112.419
13) PRIOR YEARS CUMULATIVE FUNDING																				
13.1) PRIOR YEARS CUMULATIVE FUNDING	A		-	-	57.538	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 13) PRIOR YEARS CUMULATIVE FUNDING</i>			-	-	57.538	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	353.265	-	-	1.035	-	-	42.357	-	-	45.219	-	-	67.200	-	-	112.419

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1473 / Artillery, All Types	Aggregated Items Title: Artillery, All Types
<p>(†) indicates the presence of a P-5a</p> <p>Footnotes:</p> <p>(1) **The replacement DODIC for this item is DA57.</p> <p>(2) Replacement DODIC for this item is DA56.</p> <p>(3) The Artillery, All Types program, for DA54 HE M795 Explosive Fill was reduced \$2.704M in FY15 due to Congressional Action. The DA54 155MM HE (High Explosive) is the prime round for the LW155 (Light Weight 155MM) and the increase in FY16 funding will allow the Marine Corps to procure the new Insensitive Munitions compliant 155mm HE round. Current funding supports the Total Munitions Requirement (TMR) and will increase inventory to approximately 30% of inventory objective.</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1473 / Artillery, All Types					Aggregated Items: Artillery, All Types				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) B550, CTG, 40MM BLANK SALUTING SNGL RD												
1.1) B550 LOAD, ASSEMBLY, PACK (LAP)	✓	2014	MCALESTER AAP / ROCK ISLAND ARSENAL, IL	PO	ROCK ISLAND ARSENAL, IL	May 2014	May 2015	7,278	44.79	Y		
1.3) PRIMER PERCUSSION MK22-2	✓	2014	GOVERNMENT FURNISHED MATERIAL / ROCK ISLAND ARSENAL,IL	PO	ROCK ISLAND ARSENAL, IL	May 2014	May 2015	65	160.04	Y		
2) C025, CTG, 75MM BLANK M337A2												
2.1) C025 LOAD, ASSEMBLE, PACK (LAP)	✓	2014	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Dec 2013	Apr 2015	3,161	89.85	Y		
3) D505, PROJ, 155MM, M485A2, ILLUM												
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ^{(1)(†)}	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	3,738	290.49	Y		
3.2) DOWNLOAD, CLEAN AND INSPECT	✓	2015	TBD / PICATINNY ARSENAL, NJ	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	3,924	98.34	Y		
3.3) D505 METAL PARTS SETS	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	3,737	322.51	Y		
3.4) D505 ILLUM CANNISTER, 155MM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Feb 2015	Oct 2016	3,812	379.76	Y		
3.5) D505 CANISTER MPTS ASSY, 155MM ILLUM	✓	2015	TBD / PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	3,812	58.49	Y		
3.6) D505 CANISTER BASE ASSY, 155MM ILLUM	✓	2015	TBD / PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	3,812	18.30	Y		
3.7) D505 M10 EXPULSION CHARGE ASSEMBLY	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	3,812	16.28	Y		
3.8) D505 PARACHUTE MAIN, 155MM ILLUM	✓	2015	TBD / TBD	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	3,812	46.38	Y		
3.9) D505 PARACHUTE MAIN SUPPORTS, 155MM ILUM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2016	15,250	3.12	Y		
3.10) D505 PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM	✓	2015	TBD / TBD	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Oct 2016	3,812	20.29	Y		
3.11) D505 DELAY ELEMENT, 155MM ILLUM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	3,812	32.42	Y		
3.12) D505 WOOD PALLET (HEAT TREATED)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	485	86.63	Y		
4) D529, PROJ, 155MM, M795 HE (DA54)												
4.2) D529 LOAD, ASSEMBLE & PACK (LAP)		2012	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2013	Mar 2015	3,076	274.71	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.2) D529 LOAD, ASSEMBLE & PACK (LAP)	✓	2012	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2013	Mar 2015	50,318	274.99	Y		
5) DA12, CHG, 155MM, M231, MOD ARTY CHG SYS												
5.1) DA12 LOAD, ASSEMBLE & PACK (LAP)		2012	GENERAL DYNAMICS ATP / HAMPTON, AR	C / FFP	PICATINNY ARSENAL, NJ	Mar 2012	Dec 2014	50,040	15.77	Y		
5.1) DA12 LOAD, ASSEMBLE & PACK (LAP)	✓	2015	GENERAL DYNAMICS ATP / HAMPTON, AR	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	47,181	16.32	Y		
5.3) DA12 BLACK POWDER, M231	✓	2015	GOEX INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Mar 2016	4,000	14.75	Y		
5.4) DA12 PROPELLANT, PAPP7993		2012	BAE SYSTEMS ORDNANCE SYSTEMS INC / RADFORD,VA	C / FFP	ROCK ISLAND ARSENAL, IL	Dec 2012	May 2014	180,000	8.71	Y		
5.4) DA12 PROPELLANT, PAPP7993	✓	2015	BAE SYSTEMS ORDNANCE SYSTEMS INC / RADFORD,VA	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2016	168,023	8.35	Y		
5.6) DA12 COMBUSTIBLE CASES		2012	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / FFP	PICATINNY ARSENAL, NJ	Dec 2012	Sep 2014	51,552	35.38	Y		
5.6) DA12 COMBUSTIBLE CASES	✓	2015	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Jan 2016	48,585	41.00	Y		
6) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS												
6.1) DA13 LOAD, ASSEMBLE & PACK (LAP)		2012	GENERAL DYNAMICS ATP / HAMPTON, AR	C / FFP	PICATINNY ARSENAL, NJ	Sep 2012	Sep 2012	71,100	17.11	Y		
6.1) DA13 LOAD, ASSEMBLE & PACK (LAP)		2013	GENERAL DYNAMICS ATP / HAMPTON, AR	C / IDIQ	PICATINNY ARSENAL, NJ	Sep 2013	Dec 2013	34,800	17.68	Y		
6.1) DA13 LOAD, ASSEMBLE & PACK (LAP)	✓	2015	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Jul 2017	28,802	18.54	Y		
6.2) DA13 IGNITION PROPELLANT		2012	ST MARKS POWDER INC / CRAWFORDVILLE, FL	C / FFP	PICATINNY ARSENAL, NJ	Mar 2013	Mar 2014	4,600	8.70	Y		
6.3) DA13 COMBUSTIBLE CASES		2013	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2014	Jun 2015	35,856	40.00	Y		
6.3) DA13 COMBUSTIBLE CASES	✓	2015	TBD / TBD	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	29,658	41.00	Y		
6.4) DA13 BLACK POWDER CLASS 1 (LB)		2013	GOEX INC / MINDEN, LA	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2014	Jun 2015	2,100	14.08	Y		
6.4) DA13 BLACK POWDER CLASS 1 (LB)	✓	2015	GOEX INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,508	14.75	Y		
6.5) DA13 PROPELLANT M31A2		2012	GENERAL DYNAMICS / SALABERRY-DE-VALLEYFIELD, CANADA	C / FFP	PICATINNY ARSENAL, NJ	Sep 2012	Nov 2013	329,754	14.95	Y		
6.5) DA13 PROPELLANT M31A2		2013	GENERAL DYNAMICS / SALABERRY-DE-VALLEYFIELD, CANADA	C / FFP	PICATINNY ARSENAL, NJ	Sep 2013	Nov 2015	168,000	16.26	Y		

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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
6.5) DA13 PROPELLANT M31A2	✓	2015	GENERAL DYNAMICS / SALABERRY-DE- VALLEYFIELD, CANADA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	143,997	16.91	Y		
6.6) DA13 CONTAINER M232A1		2012	GOVERNMENT FURNISHED MATERIAL / ROCK ISLAND ARSENAL,IL	PO	ROCK ISLAND ARSENAL, IL	Mar 2013	Mar 2014	14,652	45.34	Y		
7) DA23, CHG, 155MM, M231 MOD ARTY CHG SYS DUMMY												
7.1) DA23 COMPLETE ROUND	✓	2014	ARMTEC DEFENSE, INC. / COACHELLA, CA	SS / FFP	PICATINNY ARSENAL, NJ	Mar 2014	Apr 2014	575	200.00	Y		
8) DA24, CHG, 155MM, M232A1 MOD ARTY CHG SYS DUMMY												
8.1) DA24 COMPLETE ROUND	✓	2014	ARMTEC DEFENSE, INC. / COACHELLA, CA	SS / FFP	PICATINNY ARSENAL, NJ	Mar 2014	Apr 2014	710	200.00	Y		
9) DA49, 155MM, IR ILLUM												
9.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^{(2)(f)}		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	2,164	290.49	Y		
9.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^{(2)(f)}	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	3,290	290.49	Y		
9.2) DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE		2015	TBD / TBD	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	2,272	98.34	Y		
9.2) DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE	✓	2015	TBD / TBD	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	3,455	98.34	Y		
9.3) M10 EXPULSION CHARGE ASSY		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,207	16.28	Y		
9.3) M10 EXPULSION CHARGE ASSY	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	3,356	16.28	Y		
9.4) DA49 METAL PARTS SET		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	2,164	322.51	Y		
9.4) DA49 METAL PARTS SET	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	3,290	322.51	Y		
9.5) DA49 IR ILLUM CANISTER, 155MM		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	ROCK ISLAND ARSENAL, IL	Feb 2015	Oct 2016	2,207	379.76	Y		
9.5) DA49 IR ILLUM CANISTER, 155MM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	ROCK ISLAND ARSENAL, IL	Feb 2015	Oct 2016	3,356	379.76	Y		
9.6) DA49 PARACHUTE, MAIN		2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,207	46.38	Y		
9.6) DA49 PARACHUTE, MAIN	✓	2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	3,356	46.38	Y		
9.7) DA49 DELAY ELEMENT		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	2,207	32.42	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
9.7) DA49 DELAY ELEMENT	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	3,356	32.42	Y		
9.8) DA49 CANISTER, MPTS ASSY		2015	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	2,207	58.49	Y		
9.8) DA49 CANISTER, MPTS ASSY	✓	2015	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	3,356	58.49	Y		
9.9) DA49 PARACHUTE, MAIN SUPPORTS		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Feb 2015	Oct 2016	8,829	3.12	Y		
9.9) DA49 PARACHUTE, MAIN SUPPORTS	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Feb 2015	Oct 2016	13,423	3.12	Y		
9.10) DA49 PARACHUTE, DROGUE ASSY		2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,207	20.29	Y		
9.10) DA49 PARACHUTE, DROGUE ASSY	✓	2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	3,356	20.29	Y		
9.11) DA49 CANISTER, BASE ASSY		2015	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	2,207	18.30	Y		
9.11) DA49 CANISTER, BASE ASSY	✓	2015	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	3,356	18.30	Y		
9.12) DA49 WOOD PALLET (HEAT TREATED)		2015	MCALISTER AAP / MCALISTER, OK	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	281	86.63	Y		
9.12) DA49 WOOD PALLET (HEAT TREATED)	✓	2015	MCALISTER AAP / MCALISTER, OK	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	428	86.63	Y		
11) DA54 155MM HE M795 W/IMX												
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Aug 2015	Aug 2017	7,339	342.18	Y		
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)	✓	2015	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Aug 2015	Aug 2017	9,440	342.18	Y		
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2018	40,974	349.00	Y		
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)	✓	2016	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2018	40,846	349.00	Y		
11.2) DA54 METAL PARTS-M795		2013	GENERAL DYNAMICS OTS / SCRANTON, PA	C / FFP	PICATINNY ARSENAL, NJ	Dec 2012	Jun 2014	38,159	368.40	Y		
11.2) DA54 METAL PARTS-M795	✓	2013	GENERAL DYNAMICS OTS / SCRANTON, PA	C / FFP	PICATINNY ARSENAL, NJ	Dec 2012	Jun 2014	40,700	368.40	Y		
11.2) DA54 METAL PARTS-M795		2016	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	23,763	495.32	Y		
11.2) DA54 METAL PARTS-M795	✓	2016	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	41,662	495.32	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
11.4) DA54 PLUG, LIFTING, MELTABLE FOR IM		2013	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	May 2013	Nov 2014	38,159	16.99	Y		
11.4) DA54 PLUG, LIFTING, MELTABLE FOR IM	✓	2013	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	May 2013	Nov 2014	40,700	16.99	Y		
11.4) DA54 PLUG, LIFTING, MELTABLE FOR IM		2015	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	7,486	19.11	Y		
11.4) DA54 PLUG, LIFTING, MELTABLE FOR IM	✓	2015	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	9,700	19.11	Y		
11.4) DA54 PLUG, LIFTING, MELTABLE FOR IM		2016	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	23,764	19.49	Y		
11.4) DA54 PLUG, LIFTING, MELTABLE FOR IM	✓	2016	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	41,664	19.49	Y		
11.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9		2013	CHEMRING ORDNANCE, INC / PERRY, FL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2013	Oct 2014	38,159	23.08	Y		
11.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9	✓	2013	CHEMRING ORDNANCE, INC / PERRY, FL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2013	Oct 2014	40,700	23.08	Y		
11.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9		2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	7,487	25.16	Y		
11.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9	✓	2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	9,710	25.16	Y		
11.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9		2016	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	23,740	25.66	Y		
11.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9	✓	2016	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	41,664	25.66	Y		
11.6) DA54 WOODEN PALLETS, IMX-101		2013	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Dec 2013	Jun 2014	4,863	96.08	Y		
11.6) DA54 WOODEN PALLETS, IMX-101	✓	2013	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Dec 2013	Jun 2014	5,187	96.08	Y		
11.6) DA54 WOODEN PALLETS, IMX-101		2015	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	954	89.62	Y		
11.6) DA54 WOODEN PALLETS, IMX-101	✓	2015	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	1,215	89.62	Y		
11.6) DA54 WOODEN PALLETS, IMX-101		2016	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Sep 2017	3,025	91.40	Y		
11.6) DA54 WOODEN PALLETS, IMX-101	✓	2016	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Sep 2017	5,310	91.40	Y		
11.7) DA54 EXPLOSIVE FILL IMX-101 ⁽³⁾		2013	BAE ORDNANCE SYSTEMS / KINGSFORD, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Apr 2013	Oct 2014	1,234,563	12.65	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
11.7) DA54 EXPLOSIVE FILL IMX-101 ⁽³⁾	✓	2013	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Apr 2013	Oct 2014	1,316,766	12.65	Y		
11.7) DA54 EXPLOSIVE FILL IMX-101 ⁽³⁾		2015	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	242,220	21.04	Y		
11.7) DA54 EXPLOSIVE FILL IMX-101 ⁽³⁾	✓	2015	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	311,520	21.04	Y		
11.7) DA54 EXPLOSIVE FILL IMX-101 ⁽³⁾		2016	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	768,820	22.05	Y		
11.7) DA54 EXPLOSIVE FILL IMX-101 ⁽³⁾	✓	2016	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	1,347,951	22.05	Y		
11.8) DA54 EXPLOSIVE FILL IMX-104		2013	BAE ORDNANCE SYSTEMS / KINDSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2013	Sep 2014	134,680	20.67	Y		
11.8) DA54 EXPLOSIVE FILL IMX-104	✓	2013	BAE ORDNANCE SYSTEMS / KINDSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2013	Sep 2014	143,647	20.67	Y		
(†) indicates the presence of a P-21												

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Exhibit P-21, Production Schedule: PB 2016 Navy																								Date: February 2015											
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Items <i>(Units in Thousands)</i>							Fiscal Year 2012														Fiscal Year 2013														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012														Calendar Year 2013														B A L
							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) D505, PROJ, 155MM, M485A2, ILLUM																																			
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ⁽¹⁾																																			
✓	3	2015	NAVY	3.738	-	3.738																									3.738				
9) DA49, 155MM, IR ILLUM																																			
9.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ⁽²⁾																																			
Prior Years Deliveries: 2661																																			
	4	2015	NAVY	2.164	-	2.164																									2.164				
✓	4	2015	NAVY	3.290	-	3.290																									3.290				
11) DA54 155MM HE M795 W/IMX																																			
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP)																																			
Prior Years Deliveries: 77313																																			
	5	2015	NAVY	7.339	-	7.339																									7.339				
✓	5	2015	NAVY	9.440	-	9.440																									9.440				
	5	2016	NAVY	40.974	-	40.974																									40.974				
✓	5	2016	NAVY	40.846	-	40.846																									40.846				
							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	B A L				

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015									
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Items <i>(Units in Thousands)</i>							Fiscal Year 2014												Fiscal Year 2015													
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												B A L	
							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) D505, PROJ, 155MM, M485A2, ILLUM																																
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ⁽¹⁾																																
✓	3	2015	NAVY	3.738	-	3.738																			A -	-	-	-	-	-	-	3.738
9) DA49, 155MM, IR ILLUM																																
9.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ⁽²⁾																																
Prior Years Deliveries: 2661																																
	4	2015	NAVY	2.164	-	2.164																			A -	-	-	-	-	-	-	2.164
✓	4	2015	NAVY	3.290	-	3.290																			A -	-	-	-	-	-	-	3.290
11) DA54 155MM HE M795 W/IMX																																
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP)																																
Prior Years Deliveries: 77313																																
	5	2015	NAVY	7.339	-	7.339																								A -	-	7.339
✓	5	2015	NAVY	9.440	-	9.440																								A -	-	9.440
	5	2016	NAVY	40.974	-	40.974																										40.974
✓	5	2016	NAVY	40.846	-	40.846																										40.846
							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	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Navy																								Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1473 / Artillery, All Types														Aggregated Items: Artillery, All Types								
Items <i>(Units in Thousands)</i>							Fiscal Year 2016														Fiscal Year 2017											
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 5	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	B A L	
3) D505, PROJ, 155MM, M485A2, ILLUM																																
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ⁽¹⁾																																
✓	3	2015	NAVY	3.738	-	3.738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	1.738			-	
9) DA49, 155MM, IR ILLUM																																
9.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ⁽²⁾																																
Prior Years Deliveries: 2661																																
	4	2015	NAVY	2.164	-	2.164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.164				-	
✓	4	2015	NAVY	3.290	-	3.290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.290				-	
11) DA54 155MM HE M795 W/IMX																																
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP)																																
Prior Years Deliveries: 77313																																
	5	2015	NAVY	7.339	-	7.339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.634	3.000	2.705
✓	5	2015	NAVY	9.440	-	9.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	4.000	3.440
	5	2016	NAVY	40.974	-	40.974						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.974	
✓	5	2016	NAVY	40.846	-	40.846						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.846	
							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	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015															
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1473 / Artillery, All Types													Aggregated Items: Artillery, All Types															
Items <i>(Units in Thousands)</i>							Fiscal Year 2018													Fiscal Year 2019																		
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	B A L							
3) D505, PROJ, 155MM, M485A2, ILLUM																																						
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ⁽¹⁾																																						
✓	3	2015	NAVY	3.738	3.738	-																										-						
9) DA49, 155MM, IR ILLUM																																						
9.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ⁽²⁾																																						
Prior Years Deliveries: 2661																																						
	4	2015	NAVY	2.164	2.164	-																										-						
✓	4	2015	NAVY	3.290	3.290	-																										-						
11) DA54 155MM HE M795 W/IMX																																						
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP)																																						
Prior Years Deliveries: 77313																																						
	5	2015	NAVY	7.339	4.634	2.705	2.705																										-					
✓	5	2015	NAVY	9.440	6.000	3.440	3.440																										-					
	5	2016	NAVY	40.974	-	40.974	-	-	-	-	-	2.500	2.500	2.500	2.500	2.500	3.845	5.000	4.953	5.000	5.000	4.676									-							
✓	5	2016	NAVY	40.846	-	40.846	-	-	-	-	-	2.500	2.500	3.902	5.000	5.000	5.000	5.000	8.000	3.944									-									
							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	B A L							

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1473 / Artillery, All Types				Aggregated Items: Artillery, All Types			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	PINE BLUFF ARSENAL - PINE BLUFF, AR	104	208	4,000	6	6	24	30	4	3	24	27
2	PINE BLUFF ARSENAL - PINE BLUFF, AR	10,000	15,000	20,000	6	6	24	30	6	6	24	30
3	AMERICAN ORDNANCE - MIDDLETOWN, IA	5,000,000	10,000,000	15,000,000	6	6	24	30	6	6	24	30

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	67.082	0.418	1.255	-	0.518	0.518	1.716	-	0.500	0.510	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	67.082	0.418	1.255	-	0.518	0.518	1.716	-	0.500	0.510	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	67.082	0.418	1.255	-	0.518	0.518	1.716	-	0.500	0.510	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Demolition munitions charges provide high explosives for the purpose of destroying or altering man-made or natural objects or obstacles. Demolition munitions charges include block charges, shaped charges, flexible-linear charges, explosive sheet, cable, canine explosive scent items, chain cutters and military dynamite. They are used for general demolition, cutting, breaching, cratering, and destruction of abandoned equipment and ammunition.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition					P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / Demolition Munitions, All Types	P-5, P-5a		- / 67.082	- / 0.418	- / 1.255	- / -	- / 0.518	- / 0.518
Total Gross/Weapon System Cost			- / 67.082	- / 0.418	- / 1.255	- / -	- / 0.518	- / 0.518
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.</p>								
<p>Justification: FY 2016 Base Appropriation Request: N/A</p> <p>OCO: FY 2016 Overseas Contingency Operations (OCO) Request: \$0.518M. Funding will procure M982 and M986 rounds to replenish what has been expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY16 funding will support Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY 2015 Overseas Contingency Operations (OCO): \$1.255M. Funding procures demo sheet explosive to replenish what has been expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY15 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY 2014 Overseas Contingency Operations (OCO): \$0.418M. Procured and supported the Light Weight Disposable Disrupter that was expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY14 funding supported Operation Enduring Freedom - Afghanistan (OEF-A).</p>								

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types						Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				67.082		0.418		1.255		-		0.518		0.518				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				67.082		0.418		1.255		-		0.518		0.518				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				67.082		0.418		1.255		-		0.518		0.518				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - DWDN Light Weight Disposable Disrupter Cost																		
Recurring Cost																		
1.1.1) DWDN HARDWARE COST ^(†)	-	-	-	157.61	2,652	0.418	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	0.418	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - DWDN Light Weight Disposable Disrupter Cost	-	-	-	-	-	0.418	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - M986 CHG, DEMO SHEET, 9FT PETN Cost																		
Recurring Cost																		
2.1.1) M986 COMPLETE ROUND ^(†)	117.37	6,245	0.733	-	-	-	-	-	-	-	-	-	266.46	972	0.259	266.46	972	0.259
2.1.2) M986 PRODUCTION ENGINEERING	-	-	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) M986 QUALITY ASSURANCE	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) M986 FIRST ARTICLE TEST	-	-	0.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.800	-	-	-	-	-	-	-	-	-	-	-	0.259	-	-	0.259
Subtotal: Hardware - M986 CHG, DEMO SHEET, 9FT PETN Cost	-	-	0.800	-	-	-	-	-	-	-	-	-	-	-	0.259	-	-	0.259
Hardware - M982, Charge, Demolition Sheet 0.161 Inch Thick Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types						Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
3.1.1) M982 COMPLETE ROUND ^(†)	-	-	-	-	-	-	109.75	11,436	1.255	-	-	-	111.78	2,316	0.259	111.78	2,316	0.259
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	1.255	-	-	-	-	-	0.259	-	-	0.259
Subtotal: Hardware - M982, Charge, Demolition Sheet 0.161 Inch Thick Cost	-	-	-	-	-	-	-	-	1.255	-	-	-	-	-	0.259	-	-	0.259
Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
4.1.1) PRIOR YEAR CUMULATIVE FUNDING	-	-	66.282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	66.282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost	-	-	66.282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	67.082	-	-	0.418	-	-	1.255	-	-	-	-	-	0.518	-	-	0.518
<div>(†) indicates the presence of a P-5a</div>																		

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types				Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) DWDN HARDWARE COST	✓	2014	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	SS / FP	CRANE, CRANE, IN	Jan 2014	Jan 2015	2,652	157.61	Y		
2.1.1) M986 COMPLETE ROUND	✓	2016	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Dec 2016	972	266.46	Y		
3.1.1) M982 COMPLETE ROUND	✓	2015	TBD / TBD	C / TBD	ROCK ISLAND ARSENAL, IL	May 2015	May 2016	11,436	109.75	Y		
3.1.1) M982 COMPLETE ROUND	✓	2016	TBD / TBD	C / TBD	ROCK ISLAND ARSENAL, IL	Mar 2016	Dec 2016	2,316	111.78	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1625 / Fuze, All Types					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	80.574	39.575	7.033	29.335	3.299	32.634	26.355	19.860	13.917	25.221	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	80.574	39.575	7.033	29.335	3.299	32.634	26.355	19.860	13.917	25.221	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	80.574	39.575	7.033	29.335	3.299	32.634	26.355	19.860	13.917	25.221	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description:</p> <p>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. This fuze is fired from the M198 155mm Medium Towed Howitzer and the M777 Lightweight Towed Howitzer Weapon System. 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.</p> <p>Fuze, Precision Guidance Kit (PGK) NA28/NA29 is used with 155mm projectiles carrying HE (High Explosive) payloads. This fuze is fired from the M198 155mm Medium Towed Howitzer and the M777 Lightweight Towed Howitzer Weapon System.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition					P-1 Line Item Number / Title: 1625 / Fuze, All Types			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / Fuze, All Types	P-5, P-5a, P-21		- / 80.574	- / 39.575	- / 7.033	- / 29.335	- / 3.299	- / 32.634
Total Gross/Weapon System Cost			- / 80.574	- / 39.575	- / 7.033	- / 29.335	- / 3.299	- / 32.634
*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 add due to rounding.								
<p>Justification: FY16 Base Appropriation Request: \$29.335M. This funding will be used to replenish munitions that have been expended by Marine forces during training, preparation and rehearsals for combat engagements. It will procure the Point Detonating (PD) Fuze as well as the Precision Guidance Kit. The increase of funds from FY15 to FY16 allows the procurement of additional N340 Complete Round and NA28 Complete Fuze that will assist in meeting the total munitions requirement supporting training, preparation, and rehearsals for combat engagements.</p> <p>FY15 Base Appropriation Request: \$4.972M. This funding procures the NA28 Precision Guidance Kit in accordance with the total munitions requirement.</p> <p>FY14 Base Appropriation Request: \$25.356M. This funding procured the PD fuze as well as the Precision Guidance Kit in accordance with the total munitions requirement.</p> <p>OCO: FY16 Overseas Contingency Operations Request (OCO): \$3.299M. This funding will be used to replenish munitions that have been expended by Marine forces during training, preparation and combat engagements utilizing established tactics, techniques and procedures. FY16 funding will support Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY15 Overseas Contingency Operations Request (OCO): \$2.061M. This funding procures the PD fuze for replenishment of munitions that have been expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY15 funding supports Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).</p> <p>FY14 Overseas Contingency Operations Request (OCO): \$14.219M. This funding procured the PD fuze for replenishment of munitions that have been expended by Marine forces during preparation, rehearsals and combat engagements utilizing established tactics, techniques and procedures. FY14 funding supported Operation Enduring Freedom - Afghanistan (OEF-A).</p>								

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1							P-1 Line Item Number / Title: 1625 / Fuze, All Types						Item Number / Title [DODIC]: 1 / Fuze, All Types								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				80.574			39.575			7.033			29.335			3.299			32.634		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P1) <i>(\$ in Millions)</i>				80.574			39.575			7.033			29.335			3.299			32.634		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				80.574			39.575			7.033			29.335			3.299			32.634		
(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 add, due to rounding.																					
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 ^(†)	39.72	433,345	17.212	71.23	225,865	16.088	72.48	26,810	1.943	76.21	119,301	9.092	-	-	-	76.21	119,301	9.092			
1.1.2) N340 PRODUCTION ENGINEERING	-	-	1.843	-	-	0.651	-	-	-	-	-	0.305	-	-	-	-	-	0.305			
1.1.3) N340 ACCEPTANCE TESTING	-	-	1.642	-	-	0.826	-	-	0.118	-	-	0.603	-	-	-	-	-	0.603			
1.1.4) N340 QUALITY ASSURANCE	-	-	0.101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	20.798	-	-	17.565	-	-	2.061	-	-	10.000	-	-	-	-	-	10.000			
Subtotal: Hardware - N340 FUZE PD M739A1 Cost	-	-	20.798	-	-	17.565	-	-	2.061	-	-	10.000	-	-	-	-	-	10.000			
Hardware - NA28 PRECISION GUIDED KIT (NPGK) Cost																					
Recurring Cost																					
2.1.1) NA28 COMPLETE FUZE ^(†) (¹)	12,156.10	4,401	53.499	8,938.00	2,185	19.530	8,617.00	534	4.601	9,558.00	1,738	16.612	9,558.00	332	3.173	9,558.00	2,070	19.785			
2.1.2) NA28 PRODUCTION ENGINEERING	-	-	3.473	-	-	0.820	-	-	0.246	-	-	0.909	-	-	-	-	-	0.909			

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1625 / Fuze, All Types							Item Number / Title [DODIC]: 1 / Fuze, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1.3) NA28 ACCEPTANCE TESTING	-	-	2.030	-	-	0.360	-	-	0.125	-	-	0.698	-	-	0.126	-	-	0.824
2.1.4) NA28 ENGINEER CHANGE PROPOSAL	-	-	-	-	-	1.300	-	-	-	-	-	1.116	-	-	-	-	-	1.116
2.1.5) NA28 FIRST ARTICLE TEST	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.6) NA28 ENGINEERING CHANGE PROPOSAL	-	-	0.274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	59.776	-	-	22.010	-	-	4.972	-	-	19.335	-	-	3.299	-	-	22.634
Subtotal: Hardware - NA28 PRECISION GUIDED KIT (NPGK) Cost	-	-	59.776	-	-	22.010	-	-	4.972	-	-	19.335	-	-	3.299	-	-	22.634
Gross/Weapon System Cost	-	-	80.574	-	-	39.575	-	-	7.033	-	-	29.335	-	-	3.299	-	-	32.634

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

Footnotes:

⁽¹⁾ The Fuze, All Types NA28 program was reduced by \$5M in FY15 by Congressional Action. The unit cost decrease in the NA28 Complete Fuze from FY14 to FY15 is due to a price decrease for the GPS receiver component of NA28. The unit cost increase in the NA28 Complete Fuze from FY15 to FY16 is due to the combined services procurement quantity decrease (economies of scale).

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1625 / Fuze, All Types				Item Number / Title [DODIC]: 1 / Fuze, All Types				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) N340 COMPLETE ROUND ^(†)		2013	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2014	Sep 2015	3,811	80.04	Y		
1.1.1) N340 COMPLETE ROUND ^(†)	✓	2013	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2014	Sep 2015	60,136	80.04	Y		
1.1.1) N340 COMPLETE ROUND ^(†)		2014	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2014	Apr 2016	34,465	71.23	Y		
1.1.1) N340 COMPLETE ROUND ^(†)	✓	2014	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2014	Jul 2016	191,400	71.23	Y		
1.1.1) N340 COMPLETE ROUND ^(†)	✓	2015	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2015	Aug 2017	26,810	72.48	Y		
1.1.1) N340 COMPLETE ROUND ^(†)		2016	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2016	Sep 2017	119,301	76.21	Y		
2.1.1) NA28 COMPLETE FUZE ^(†)	✓	2013	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Aug 2013	Nov 2015	2,109	10,651.00	Y		
2.1.1) NA28 COMPLETE FUZE ^(†)		2014	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Feb 2015	Feb 2016	2,185	8,938.00	Y		
2.1.1) NA28 COMPLETE FUZE ^(†)		2015	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Feb 2015	Nov 2016	534	8,617.00	Y		
2.1.1) NA28 COMPLETE FUZE ^(†)		2016	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Feb 2016	Feb 2017	1,738	9,558.00	Y		
2.1.1) NA28 COMPLETE FUZE ^(†)	✓	2016	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Feb 2016	Feb 2017	332	9,558.00	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1625 / Fuze, All Types													Item Number / Title [DODIC]: 1 / Fuze, All Types										
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2013												Fiscal Year 2014														
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												B A L		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) N340 COMPLETE ROUND																																	
Prior Years Deliveries: 369398																																	
	1	2013	NAVY	3.811	-	3.811																				A -	-	-	-	-	-	-	3.811
✓	1	2013	NAVY	60.136	-	60.136																					A -	-	-	-	-	-	60.136
	1	2014	NAVY	34.465	-	34.465																					A -	-	-	-	-	-	34.465
✓	1	2014	NAVY	191.400	-	191.400																					A -	-	-	-	-	-	191.400
✓	1	2015	NAVY	26.810	-	26.810																										26.810	
	1	2016	NAVY	119.301	-	119.301																										119.301	
2.1.1) NA28 COMPLETE FUZE ⁽¹⁾																																	
Prior Years Deliveries: 2292																																	
✓	2	2013	NAVY	2.109	-	2.109											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.109	
	2	2014	NAVY	2.185	-	2.185																										2.185	
	2	2015	NAVY	.534	-	.534																										.534	
	2	2016	NAVY	1.738	-	1.738																										1.738	
✓	2	2016	NAVY	.332	-	.332																										.332	
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015													
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1625 / Fuze, All Types										Item Number / Title [DODIC]: 1 / Fuze, All Types													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2015										Fiscal Year 2016																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 4	BAL D U E A S O F 1 O C T	Calendar Year 2015										Calendar Year 2016										B A L						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P		
1.1.1) N340 COMPLETE ROUND																																	
Prior Years Deliveries: 369398																																	
	1	2013	NAVY		3.811	-		3.811	-	-	-	-	-	-	-	-	-	3.811															-
✓	1	2013	NAVY		60.136	-		60.136	-	-	-	-	-	-	-	-	-	15.000	15.000	15.000	15.136											-	
	1	2014	NAVY		34.465	-		34.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	10.000	10.000	4.465				-	
✓	1	2014	NAVY		191.400	-		191.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.050	28.000	28.000	128.350		
✓	1	2015	NAVY		26.810	-		26.810					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.810		
	1	2016	NAVY		119.301	-		119.301																	A -	-	-	-	-	-	-	119.301	
2.1.1) NA28 COMPLETE FUZE ⁽¹⁾																																	
Prior Years Deliveries: 2292																																	
✓	2	2013	NAVY		2.109	-		2.109	-	-	-	-	-	-	-	-	-	-	-	.749	.800	.560											-
	2	2014	NAVY		2.185	-		2.185					A -	-	-	-	-	-	-	-	-	-	.101	1.100	.984								-
	2	2015	NAVY		.534	-		.534					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.534		
	2	2016	NAVY		1.738	-		1.738															A -	-	-	-	-	-	-	-	1.738		
✓	2	2016	NAVY		.332	-		.332															A -	-	-	-	-	-	-	-	.332		
									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	B A L

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Exhibit P-21, Production Schedule: PB 2016 Navy																								Date: February 2015															
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1625 / Fuze, All Types														Item Number / Title [DODIC]: 1 / Fuze, All Types															
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2017												Fiscal Year 2018																				
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017																				Calendar Year 2018												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									
1.1.1) N340 COMPLETE ROUND																																							
Prior Years Deliveries: 369398																																							
	1	2013	NAVY	3.811	3.811	-																										-							
✓	1	2013	NAVY	60.136	60.136	-																										-							
	1	2014	NAVY	34.465	34.465	-																										-							
✓	1	2014	NAVY	191.400	63.050	128.350	28.000	28.000	32.350	40.000																				-									
✓	1	2015	NAVY	26.810	-	26.810	-	-	-	-	-	-	-	-	-	18.030	8.780															-							
	1	2016	NAVY	119.301	-	119.301	-	-	-	-	-	-	-	-	-	-	11.050	20.000	20.000	20.000	20.000	20.000	8.251						-										
2.1.1) NA28 COMPLETE FUZE ⁽¹⁾																																							
Prior Years Deliveries: 2292																																							
✓	2	2013	NAVY	2.109	2.109	-																										-							
	2	2014	NAVY	2.185	2.185	-																										-							
	2	2015	NAVY	.534	-	.534	-	.177	.177	.177	.003																					-							
	2	2016	NAVY	1.738	-	1.738	-	-	-	-	.145	.145	.145	.145	.145	.145	.145	.145	.145	.145	.142	.146								-									
✓	2	2016	NAVY	.332	-	.332	-	-	-	-	.028	.028	.028	.028	.028	.028	.027	.027	.027	.027	.028	.028											-						
							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	B A L								

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1					P-1 Line Item Number / Title: 1625 / Fuze, All Types				Item Number / Title [DODIC]: 1 / Fuze, All Types			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	ACTION MANUFACTURING INC - PHILADELPHIA, PA	240,000	480,000	960,000	6	6	24	30	-	-	18	18
2	ALLIANT TECH SYSTEMS INC - PLYMOUTH, MN	300	800	10,600	13	11	10	21	12	6	10	16

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
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: 1628 / Non Lethals					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	10.890	-	0.998	3.868	-	3.868	3.869	3.868	11.384	11.605	-	46.482
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	10.890	-	0.998	3.868	-	3.868	3.869	3.868	11.384	11.605	-	46.482
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	10.890	-	0.998	3.868	-	3.868	3.869	3.868	11.384	11.605	-	46.482
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description:</p> <p>Non-Lethal Munition All Types consists of a family of 12 Gauge, 40mm Grenades, 40mm and 66mm Tubular Launcher Grenades, Diversionary 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.</p> <p>Mission Payload Module Non-Lethal Munitions (MPMN) is a New Start in FY16.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy					Date: February 2015			
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: 1628 / Non Lethals				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
1 / Non Lethals	P-5, P-5a		- / 10.890	- / -	- / 0.998	- / 3.868	- / -	- / 3.868
Total Gross/Weapon System Cost			- / 10.890	- / -	- / 0.998	- / 3.868	- / -	- / 3.868
*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 add due to rounding.								

Justification:

FY2016 Base Appropriation Request \$3.868:

Increase in funds from FY15 to FY16 will support procurement of the Mission Payload Module Non-Lethal Munitions beginning in FY16. The Mission Payload Module Non-Lethal Munitions (MPMN) will suppress human targets through visual and auditory degradation while minimizing risk of significant injury. The MPMN will be deployed through the Mission Payload Module - Non-Lethal Weapons System (MPM-NLWS). This item is in the training and combat requirements that have been identified in the Total Munitions Requirement (TMR).

FY2015 Base Appropriation: \$0.998M

Increase in funds from FY14 to FY15 for all programs addresses inventory shortfalls within Total Munitions Requirement (TMR) objectives: Procures items such as the AA51 CTG, 12 Gauge Non-Lethal Point Control M1012; and the GG04 Grenade, Rubber Ball Non-Lethal M1014. All of these items are in the training and combat requirements that have been identified in the Total Munitions Requirement (TMR).

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1628 / Non Lethals						Item Number / Title [DODIC]: 1 / Non Lethals							
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				10.890		-		0.998		3.868		-		3.868					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				10.890		-		0.998		3.868		-		3.868					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				10.890		-		0.998		3.868		-		3.868					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - AA51 CTG, 12 GAUGE NON-LETHAL POINT CONTROL M1012 Cost																			
Recurring Cost																			
1.1.1) AA51 COMPLETE ROUND ^(†)		-	-	-	-	-	2.49	102,942	0.256	-	-	-	-	-	-	-	-	-	
1.1.2) AA51 PRODUCTION ENGINEERING		-	-	0.065	-	-	-	-	0.242	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	0.065	-	-	-	-	0.498	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - AA51 CTG, 12 GAUGE NON-LETHAL POINT CONTROL M1012 Cost		-	-	0.065	-	-	-	-	0.498	-	-	-	-	-	-	-	-	-	
Hardware - BA06 CTG 40MM XM / M1006, NON-LETHAL (SPONGE GR) Cost																			
Recurring Cost																			
2.1.1) BA06 COMPLETE ROUND ^(†)		8.55	87,616	0.749	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.1.2) BA06 PRODUCTION ENGINEERING		-	-	0.110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	0.859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - BA06 CTG 40MM XM / M1006, NON-LETHAL (SPONGE GR) Cost		-	-	0.859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1628 / Non Lethals						Item Number / Title [DODIC]: 1 / Non Lethals						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - GG04 GREANDE, HAND, RUBBER BALL NON-LETHAL Cost																		
Recurring Cost																		
3.1.1) GG04 COMPLETE ROUND ^(†) (1)	19.66	189,236	3.721	-	-	-	30.03	16,650	0.500	-	-	-	-	-	-	-	-	-
3.1.2) GG04 PRODUCTION ENGINEERING	-	-	0.604	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	4.325	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - GG04 GREANDE, HAND, RUBBER BALL NON-LETHAL Cost	-	-	4.325	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-
Hardware - GG20 GRENADE, HAND STUD, BTV-1 BL Cost																		
Recurring Cost																		
4.1.1) GG20 COMPLETE ROUND	54.75	98,824	5.411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.2) GG20 PRODUCTION ENGINEERING	-	-	0.230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	5.641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - GG20 GRENADE, HAND STUD, BTV-1 BL Cost	-	-	5.641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - MISSION PAYLOAD MODULE NON-LETHAL Cost																		
Recurring Cost																		
5.1.1) MPMN COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	222.39	17,395	3.868	-	-	-	222.39	17,395	3.868
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	3.868	-	-	-	-	-	3.868
Subtotal: Hardware - MISSION PAYLOAD MODULE NON-LETHAL Cost	-	-	-	-	-	-	-	-	-	-	-	3.868	-	-	-	-	-	3.868
Gross/Weapon System Cost	-	-	10.890	-	-	-	-	-	0.998	-	-	3.868	-	-	-	-	-	3.868

(†) indicates the presence of a P-5a

Footnotes:

(†) indicates the presence of a P-5a

Footnotes:

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Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1628 / Non Lethals	Item Number / Title [DODIC]: 1 / Non Lethals
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<div>(1) FY15 BA06 funding will be realigned to GG04 due to uneconomical buy.</div>		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1628 / Non Lethals				Item Number / Title [DODIC]: 1 / Non Lethals				

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) AA51 COMPLETE ROUND		2015	TBD / TBD	C / FFP	ARDEC, PICATINNY, NJ	May 2015	Aug 2016	102,942	2.49	Y		
2.1.1) BA06 COMPLETE ROUND		2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	ARDEC, PICATINNY, NJ	May 2013	Aug 2014	86,666	8.55	Y		
2.1.1) BA06 COMPLETE ROUND	✓	2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	ARDEC, PICATINNY, NJ	May 2013	Aug 2014	950	8.55	Y		
3.1.1) GG04 COMPLETE ROUND		2012	COMBINED SYSTEMS INC. / JAMESTOWN, NY	C / FFP	ARDEC, PICATINNY, NJ	Mar 2012	May 2015	137,496	19.00	Y		
3.1.1) GG04 COMPLETE ROUND	✓	2012	COMBINED SYSTEMS INC. / JAMESTOWN, NY	C / FFP	ARDEC, PICATINNY, NJ	Mar 2012	May 2015	37,473	19.00	Y		
3.1.1) GG04 COMPLETE ROUND		2013	COMBINED SYSTEMS INC. / JAMESTOWN, NY	C / FFP	ARDEC, PICATINNY, NJ	Mar 2013	Dec 2015	14,267	27.81	Y		
3.1.1) GG04 COMPLETE ROUND		2015	TBD / TBD	C / FFP	ARDEC, PICATINNY, NJ	May 2015	Nov 2016	16,650	30.03	Y		
5.1.1) MPMN COMPLETE ROUND		2016	TBD / TBD	C / TBD	MCSC, Quantico, VA	Mar 2016	Oct 2016	17,395	222.39	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition							P-1 Line Item Number / Title: 1630 / Ammo Modernization					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	33.121	8.328	11.319	15.117	-	15.117	16.746	16.760	16.759	17.095	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	33.121	8.328	11.319	15.117	-	15.117	16.746	16.760	16.759	17.095	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	33.121	8.328	11.319	15.117	-	15.117	16.746	16.760	16.759	17.095	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
 Description: 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.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition					P-1 Line Item Number / Title: 1630 / Ammo Modernization			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
Ammo Modernization	P-40a		- / 33.121	- / 8.328	- / 11.319	- / 15.117	- / -	- / 15.117
Total Gross/Weapon System Cost			- / 33.121	- / 8.328	- / 11.319	- / 15.117	- / -	- / 15.117
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.</p>								
<p>Justification: FY2016 Base Appropriation Request: \$15.117M The FY2016 funding request was reduced by \$600 thousand to account for the availability of prior year execution balances.</p> <p>Ammunition Modernization will support increases in the level of effort from FY15 to FY16 to modernize Ammunition including, Rockets, Line charges, Components, and 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).</p> <p>FY2015 Base Appropriation: \$11.319M Ammunition Modernization supports x-ray efforts for Light Weight Anti-Armor Weapon (LAW) rockets. The rockets have potential safety issues that require each LAW rocket to be x-rayed to ensure a required clip is inside the rocket that will prevent premature detonation. Funding is also supporting 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).</p> <p>FY 2014 Base Appropriation: \$8.328M Ammunition Modernization supported the level of effort to modernize Ammunition which includes 40mm, Rockets, Line charges, Components, and Missiles. This includes, but is not limited to on going inspections to ensure safety of rounds in stockpile. Funding supported 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 testing, surveillance, Reliability, Availability, Maintainability-Quality (RAM-Q), and destructive testing (degradation and trends).</p>								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1								P-1 Line Item Number / Title: 1630 / Ammo Modernization							Aggregated Items Title: Ammo Modernization				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Ammo Modernization																				
1.1) AM01, CTG, 40MM	A		-	-	3.825	-	-	1.452	-	-	1.599	-	-	1.911	-	-	-	-	-	1.911
1.2) AM02, ROCKETS AMMO MOD ⁽¹⁾	A		-	-	5.417	-	-	1.202	-	-	1.412	-	-	2.708	-	-	-	-	-	2.708
1.3) AM03, LINE CHARGE AMMO MOD	A		-	-	3.235	-	-	2.002	-	-	2.411	-	-	2.173	-	-	-	-	-	2.173
1.4) AM04, COMPONENTS AMMO MOD	A		-	-	3.430	-	-	1.804	-	-	2.411	-	-	2.776	-	-	-	-	-	2.776
1.5) AM05, MISSILE COMP AMMO MOD	A		-	-	3.690	-	-	1.244	-	-	1.980	-	-	2.943	-	-	-	-	-	2.943
1.6) AM06, QUAL EVAL AMMO MOD	A		-	-	13.462	-	-	0.624	-	-	1.492	-	-	2.606	-	-	-	-	-	2.606
1.7) AMMO, AMMO MOD	A		-	-	0.062	-	-	-	-	-	0.014	-	-	-	-	-	-	-	-	-
Subtotal: 1) Ammo Modernization			-	-	33.121	-	-	8.328	-	-	11.319	-	-	15.117	-	-	-	-	-	15.117
Total			-	-	33.121	-	-	8.328	-	-	11.319	-	-	15.117	-	-	-	-	-	15.117

Footnotes:

⁽¹⁾ The Ammunition Modernization program was reduced in FY15 by \$1M. The funding in FY16 is properly aligned to support increases in the level of effort to modernize Ammunition that includes: Rockets, Line charges, Missile Components, and Quality Evaluation efforts.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1660 / Items less than \$5 million
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ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	24.920	10.685	11.178	11.219	-	11.219	11.482	11.541	11.699	11.915	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	24.920	10.685	11.178	11.219	-	11.219	11.482	11.541	11.699	11.915	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	24.920	10.685	11.178	11.219	-	11.219	11.482	11.541	11.699	11.915	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Items Less Than \$5 Million supports Marine Corps Units that have niche ammunition requirements. This line 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 MC in the year of execution to support drug interdiction requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition					P-1 Line Item Number / Title: 1660 / Items less than \$5 million			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / 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)
Items less than \$5 million	P-40a		- / 24.920	- / 10.685	- / 11.178	- / 11.219	- / -	- / 11.219
Total Gross/Weapon System Cost			- / 24.920	- / 10.685	- / 11.178	- / 11.219	- / -	- / 11.219
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.</p>								
<p>Justification:</p> <p>FY2016 Baseline Appropriation Request \$11.219: These funds will provide First Destination Transportation of ammunition items delivering in FY16. Funding also supports the Marine Corps Rifle Team and will support the requirements of the Marine Security Guard Battalion through the U.S. State Department.</p> <p>FY2015 Baseline Appropriation Request \$11.178M: Procures Rifle Team ammunition and provides First Destination Transportation of items delivering in FY15. The increase in funding from FY14 reflects the shift of all PANMC FDT to this line item beginning in FY15 and \$1.412M funds Marine Security Guard Battalion ammunition requirements procured through the U.S. State Department.</p> <p>FY2014 Baseline Appropriation Request \$10.685M: Procured Rifle Team ammunition. Counter-DRUG Interdiction funds were provided by Office of the Secretary of Defense (OSD) for the Marine Corps in the year of execution to support drug interdiction requirements. Funds also supported First Destination Transportation (FDT) of items delivered in FY14 and funded Marine Security Guard Battalion (MSGB) ammunition requirements procured through the U.S. State Department. Funding included a Congressional add of \$1M which funded the increase in ammunition requirements for the MSGB to support the increase in manning to Embassies. This is an enduring requirement. The \$4.200M Congressional Add for Special Purpose MAGTF-Crisis Response (SP MAGTF-CR) was provided to procure small arms munitions required to support the SP MAGTF-CR teams as they deployed.</p>								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1								P-1 Line Item Number / Title: 1660 / Items less than \$5 million							Aggregated Items Title: Items less than \$5 million				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Items Less than \$5M																				
1.1) A001, RIFLE TEAM AMMUNITION	A		-	-	0.199	-	-	0.030	-	-	0.197	-	-	0.197	-	-	-	-	-	0.197
1.2) DRUG INT, DRUG INTERDICTION	A		-	-	2.325	-	-	0.364	-	-	-	-	-	-	-	-	-	-	-	
1.3) FDTC, FIRST DESTINATION TRANSPORTATION CHARGE ⁽¹⁾			-	-	21.196	-	-	4.691	-	-	9.569	-	-	9.533	-	-	-	-	-	9.533
1.4) MSGB, MARINE SECURITY GUARD BATTALION AMMO	A		-	-	1.200	-	-	1.400	-	-	1.412	-	-	1.489	-	-	-	-	-	1.489
1.5) Special Purpose MAGTF-Crisis Response	A		-	-	-	-	-	4.200	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) Items Less than \$5M			-	-	24.920	-	-	10.685	-	-	11.178	-	-	11.219	-	-	-	-	-	11.219
Total			-	-	24.920	-	-	10.685	-	-	11.178	-	-	11.219	-	-	-	-	-	11.219

Footnotes:

⁽¹⁾ The increase in funding from FY14 to FY15 reflects the shift of all PANMC First Destination Transportation Charges (FDTC) to this line item beginning in FY15.

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