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

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.

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.



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

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

Department of the Navy FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority

(Dollars in Thousands)

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

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

09 Jan 2015

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

Department of the Navy FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority

Total Obligational Authority 09 Jan 2015 (Dollars in Thousands)

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line	Ident	FY 2014 (Base & OCO)	FY 2015 Base Enacted	FY 2015 OCO Enacted	FY 2015 Total Enacted	
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost	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	А	2,749				U
8 LRLAP 6" Long Range Attack Projectile	А	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	
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

Department of the Navy FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority

Total Obligational Authority 09 Jan 2015 (Dollars in Thousands)

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line	Ident	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e
No Item Nomenclature	Code	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Proc Ammo, Navy								_
Navy Ammunition								
1 General Purpose Bombs	A	10	1,238		9,715	1	.10,953	U
2 Airborne Rockets, All Types	А	6	57,289		11,108		78,397	U
3 Machine Gun Ammunition	А	2	20,340		3,603		23,943	U
4 Practice Bombs	А	4	10,365				40,365	U
5 Cartridges & Cart Actuated Devices	А	4	19,377				49,377	U
6 Air Expendable Countermeasures	А	Ę	59,651		11,982		71,633	U
7 JATOS	A		2,806				2,806	U
8 LRLAP 6" Long Range Attack Projectile	А	1	L1,596				11,596	U
9 5 Inch/54 Gun Ammunition	A	3	35,994				35,994	U
10 Intermediate Caliber Gun Ammunition	А	3	36,715				36,715	U
11 Other Ship Gun Ammunition	A	4	15,483		4,674		50,157	U
12 Small Arms & Landing Party Ammo	A	Ē	52,080		3,456		55,536	U
13 Pyrotechnic and Demolition	A	1	LO,809		1,989		12,798	U
14 Ammunition Less Than \$5 Million	A		4,469		4,674		9,143	U
Total Proc Ammo, Navy			38,212		51,201	 5	89,413	-
Budget Activity 02: Proc Ammo, MC								
Marine Corps Ammunition								
15 Small Arms Ammunition		4	16,848				46,848	U

Department of the Navy FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority

Total Obligational Authority 09 Jan 2015 (Dollars in Thousands)

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line	Ident	FY 2014 (Base & OCO)	FY 2015 Base Enacted	FY 2015 OCO Enacted	FY 2015 Total Enacted	S e
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost	
16 Linear Charges, All Types	А	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	В		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	

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

igational Authority 09 Jan 2015

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line	Ident	FY 2016 Base	FY 2016 OCO	FY 2016 Total	S e	
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost		
16 Linear Charges, All Types	А	350		350	Ū	
17 40 Mm, All Types	А	500		500	U	
18 60mm, All Types	А	1,849		1,849	U	
19 81mm, All Types	А	1,000		1,000	U	
20 120mm, All Types	А	13,867	10,719	24,586	U	
21 Ctg 25mm, All Types	А				U	
22 Grenades, All Types	А	1,390		1,390	U	
23 Rockets, All Types	А	14,967	3,993	18,960	U	
24 Artillery, All Types	А	45,219	67,200	112,419	U	
25 Demolition Munitions, All Types	А		518	518	U	
26 Fuze, All Types	А	29,335	3,299	32,634	U	
27 Non Lethals	В	3,868		3,868	U	
28 Ammo Modernization	А	15,117		15,117	U	
29 Items Less Than \$5 Million	А	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	-	

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

Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	ВА	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	
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	
14	01	01	0400	Ammunition less than \$5 million	Volume 1 - 225

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Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	ВА	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	
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	
22	02	01	1468	Grenades, All Types	
23	02	01	1471	Rockets, All Types	Volume 2 - 83
24	02	01	1473	Artillery, All Types	
25	02	01	1500	Demolition Munitions, All Types	
26	02	01	1625	Fuze, All Types	
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 #	ВА	BSA Page
120 MM, All Types	1121	20	02	01Volume 2 - 51
40 MM, All Types	1050	17	02	01Volume 2 - 23
5 Inch/54 Gun Ammunition	0250	9	01	01Volume 1 - 125
60 MM, All Types	1083	18	02	01Volume 2 - 33
81 MM, All Types	1091	19	02	01Volume 2 - 41
Air Expendable Countermeasures	0182	6	01	01Volume 1 - 75
Airborne Rockets, All Types	0151	2	01	01Volume 1 - 21
Ammo Modernization	1630	28	02	01Volume 2 - 135
Ammunition less than \$5 million	0400	14	01	01Volume 1 - 225
Artillery, All Types	1473	24	02	01Volume 2 - 93
CTG 25 MM, All Types	1388	21	02	01Volume 2 - 61
Cartridge Actuated Devices/Propellant Act Devices	0180	5	01	01Volume 1 - 61
Demolition Munitions, All Types	1500	25	02	01Volume 2 - 113
Fuze, All Types	1625	26	02	01 Volume 2 - 119
General Purpose Bombs	0145	1	01	01Volume 1 - 1
Grenades, All Types	1468	22	02	01Volume 2 - 65
Intermediate Caliber Gun Ammo	0266	10	01	01Volume 1 - 137

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Line Item Title	Line Item Number	Line #	ВА	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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Line Item Table of Contents (by Appropriation then Line Number)

Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	ВА	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	
20	02	01	1121	120 MM, All Types	Volume 2 - 51
21	02	01	1388	CTG 25 MM, All Types	
22	02	01	1468	Grenades, All Types	Volume 2 - 65
23	02	01	1471	Rockets, All Types	
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	
27	02	01	1628	Non Lethals	
28	02	01	1630	Ammo Modernization	Volume 2 - 135
29	02	01	1660	Items less than \$5 million	Volume 2 - 139



Navy • President's Budget Submission FY 2016 • Procurement

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

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



Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1000 / Small Arms Ammunition

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	Α		Program Eler	ments for Cod	de B Items:			Other Relate	d Program El	ements:		
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	274.565	28.254	41.183	46.848	-	46.848	52.054	47.549	18.063	18.346	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	274.565	28.254	41.183	46.848	-	46.848	52.054	47.549	18.063	18.346	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	274.565	28.254	41.183	46.848	-	46.848	52.054	47.549	18.063	18.346	Continuing	Continuing
(The following	g Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

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.

LI 1000 - Small Arms Ammunition

Navy

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1000 / Small Arms Ammunition

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pr	ogram	Elements for Code	B Items:	Oti	ner Related Program I	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) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ 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.

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 Single Round, and the 9mm Blank Single Round.

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.

FY2014 Base Appropriation \$14.793M:

Funding replenished munitions expended by Marine forces during training, preparation and rehearsals for combat engagements.

OCO:

FY2016 Overseas Contingency Operations (OCO) Request: N/A

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).

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).

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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

1508N / 02 / 1								00075	mali Arm	is Ammu	muon				ા	mali Arm	IS AIIIII	unition		
Note: Subtotals or Total	ls in	this Ex	hibit P-40a ı	may not be e	exact or ad	d, due to rou	nding.													
				Prior Years			FY 2014			FY 2015		- 1	FY 2016 Base	•	F	Y 2016 OCC)	1	FY 2016 Tota	ı
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	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 BAL	L					,														
1.1) A059 LOAD, ASSEMBLE AND	A																			
PACK (LAP) (1) ^(†)			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	22.1
1.2) A059 LOAD, ASSEMBLE AND	Α																			
PACK (LAP) (2) (1)(†)			0.32	7,372,389	2.359	-	-	-	-	-	-	0.24	14,002,204	3.292	-	-	-	0.24	14,002,204	3.2
1.3) A059 BOX METAL M2A1 (EA) (1)	Α		8.88	541,991	4.813	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) A059 BOX METAL M2A1 (EA) (2) ^(†)	A			0.000	0.040				40.04		4.050	40.40	404.000	4.550				10.10	404.000	
1.5) A059			9.00	2,000	0.018	-	-	-	13.21	80,090	1.058	12.49	124,290	1.552	-	-	-	12.49	124,290	1.5
PRODUCTION ENGINEERING			-	-	1.840	-	-	-	_	-	0.179	-	-	0.605	-	-	-	_	-	0.6
1.6) A059 QUALITY ASSURANCE			-	-	0.050	-	-	-	-	-	0.012	-	-	0.007	-	-	-	-	-	0.0
1.7) A059 ACCEPTANCE TESTING			-	-	0.097	-	_	_	_	-	0.038	-	-	_	-	_	_	-	-	-
Subtotal: 1) A059 CTG, 5.56MM BALL			-	-	85.224	-	-	-	-	-	16.519	-	-	27.643	-	-	-	-	-	27.6
2) A064 CTG, 5.56MM 4 &	1 LIN	IKED																		
2.1) A064 COMPLETE	А																			
2.2) A064			0.33	96,647,844	31.697	-	-	-	0.53	1,781,642	0.944	-	-	-	-	-	-	-	-	
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 BLA	NK I	INKED	ļ.					l	ļ											
3.1) A075 COMPLETE	Α																			
ROUND ^(†)			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

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Aggregated Items Title:
1000 / Small Arms Ammunition

Small Arms Ammunition

																				
Note: Subtotals or Tota	ls in	this Ex	hibit P-40a	may not be e	exact or ad	d, due to rou	ınding.													
				Prior Years			FY 2014			FY 2015		1	FY 2016 Base	9	F	Y 2016 OCO)	F	Y 2016 Tota	ī
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost
3.3) A075 PRODUCTION VERIFICATION TEST			-	-	0.412	-	-	_	-	-	_	-	-	_	_	-		_		
Subtotal: 3) A075 CTG, 5.56MM BLANK LINKED			-	-	4.475	_	-	-	-	-	0.997	-	-	-	-	-	-	-	-	
4) A080 CTG, 5.56MM BLA	ANK													,						
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) ^(†)	А		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	-	-	-	-	-	-	-	-	
Subtotal: 4) A080 CTG, 5.56MM BLANK			-	-	5.879	_	-	2.812	-	-	0.997	_	-	_	-	-	-	-	-	
5) A112 CTG, 7.62MM BLA	NK I	M82	,						,											
5.1) A112 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		-	-	_	0.28	326,720	0.091	-	_	_	_	-	_	_	-	-	_	_	
5.2) A112 BOX METAL M2A2 ^(†)	А		-	-	_	10.87	549	0.006	-	-	_	-	-	-	-	-	-	-	_	
5.3) A112 PRODUCTION ENGINEERING			-	-	_	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 5) A112 CTG, 7.62MM BLANK M82			-	-	0.000	-	-	0.099	-	-	-	-	-	-	-	-	_	-	-	
6) A131 CTG, 7.62MM 4 &	1 LIN	KED												,						
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

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Aggregated Items Title:
1000 / Small Arms Ammunition

Small Arms Ammunition

1508N / 02 / 1							1	000751	maii Arm	s Ammu	Inition				51	maii Arm	ns Amm	unition		
Note: Subtotals or Tota	ls in	this Exl	nibit P-40a ı	may not be e	exact or ad	d, due to rou	nding.													
				Prior Years			FY 2014			FY 2015			FY 2016 Base	•	F	Y 2016 OCO)	F	Y 2016 Tota	1
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	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	-	-	-	-	-	-	-	-	-
Subtotal: 6) A131 CTG, 7.62MM 4 & 1 LINKED			-	-	29.208	-	-	2.922	-	-	0.997	-	-	-	-	-	-	-	-	-
7) A143 CTG, 7.62MM BA	LL LII	NKED									,			,			,			
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
Subtotal: 7) A143 CTG, 7.62MM BALL LINKED			-	-	16.363	-	-	_	-	-	-	-	-	1.000	-	-	-	-	-	1.000
8) A159 CTG 7.62MM DUM	ИМY										,						,			
8.1) A159 LOAD, ASSEMBLE AND PACK (LAP) ^{(2)(†)}	A		_	-	_	0.69	137,226	0.095	-	_	_	_	_	_	_	_	_	_	-	_
8.2) A159 BOX METAL M2A2 ^(†)	Α		_	_	_	10.87	305	0.003	_	_	-	-	_	_	_	_	_	_	_	_
8.3) A159 PRODUCTION ENGINEERING			_	-	_	_	_	0.001	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal: 8) A159 CTG 7.62MM DUMMY			_	-	0.000	-	_	0.099	_	_	_	_	-	_	-	_	_	_	_	_
9) A363 CTG, 9MM BALL	ш											l								
9.1) A363 LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		0.46	EE 22E 27E	0.607	0.45	45 902 402	2.424				0.46	4 474 944	0.242				0.46	4 474 044	0.242
9.2) A363 BOX METAL M2A1 (EA) (1)	Α		9.50	55,335,275 35,037	0.333		15,893,102	2.424	-	-	-	0.16	1,474,841	0.243		-	-	0.16	1,474,841	0.243
9.3) A363 BOX	Α					-	-		-	-	-	-	-	-	-	-	-	-		-
METAL M2A2 ^(†) 9.4) A363 PRODUCTION			9.95	21,000	0.209	10.87	16,052	0.174	-	-	-	12.49	1,469	0.018	-	-	-	12.49	1,469	0.018
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 NavyDate: February 2015Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:Aggregated Items Title:1508N / 02 / 11000 / Small Arms AmmunitionSmall Arms Ammunition

Note: Subtotals or Totals Item Number / Title [DODIC]	ID CD	MDAP/		may not be e	exact or add	d, due to rou				,									,	
	CD			Prior Years																
	CD		,				FY 2014			FY 2015		F	FY 2016 Base		F	Y 2016 OCO	ı	F	Y 2016 Total	1
9.6) A363 ACCEPTANCE		MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
	A		-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.7) A363 PRODUCTION QUALIFICATION TEST	A		-	-	-	-	-	_	-	-	-	-	-	0.001	-	-	-	-	-	0.00
Subtotal: 9) A363 CTG, 9MM BALL			-	-	9.626	-	-	2.716	-	-	-	-	-	0.288	-	-	-	-	-	0.28
10) A483 CTG CAL .45 MA	тсн	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	0.11
10.2) A483 BOX METAL M2A2 ^(†)	Α		-	-	-	10.87	812	0.009	-	-	-	12.48	362	0.005	-	-	-	12.48	362	0.00
10.3) A483 PRODUCTION ENGINEERING			-	-	-	-	-	0.002	-	-	-	-	-	0.007	-	-	_	-	-	0.00
10.4) A483 QUALITY ASSURANCE			-	-	-	-	-	0.001	-	-	-	-	-	0.002	-	-	-	-	-	0.00
Subtotal: 10) A483 CTG CAL .45 MATCH GRADE			-	-	0.000	-	-	0.235	-	-	-	-	-	0.128	-	-	-	-	-	0.12
11) A552 CTG CAL .50 GR	ADE	AC BAL	.L																	
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	2.5
11.2) A552 BOX METAL M2A2 ^(†)	Α		-	-	_	10.87	11,168	0.121	13.21	2,142	0.028	12.49	11,473	0.143	-	-	_	12.49	11,473	0.1
11.3) A552 PRODUCTION ENGINEERING			-	-	-	-	-	0.012	-	-	0.028	-	-	0.137	-	-	-	-	-	0.13
11.4) A552 ACCEPTANCE TESTING	Α		-	-	-	-	-	-	-	-	0.039	-	-	-	-	-	-	-	-	-
Subtotal: 11) A552 CTG CAL .50 GRADE AC BALL			_	-	0.000	-	-	2.356	-	-	0.576	-	-	2.849	-	-	-	-	-	2.84
12) A576 CTG, CAL .50 4 8	k 1 Li	INKED		,																
12.1) A576 LOAD, ASSEMBLE, AND	Α																			
PACK (LAP) ^(†) 12.2) A576 BOX	Α			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	4.3
METAL M2A1 (1)			9.43	246,441	2.325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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P-1 Line #15 Volume 2 - 6

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title:

Aggregated Items Title: Small Arms Ammunition 1508N / 02 / 1 1000 / Small Arms Ammunition

				Dalas V			EV 0011			EV 0015			7/ 0046 5		_	V 0040 000		_	V 0040 T	
				Prior Years			FY 2014			FY 2015		ı	Y 2016 Base		ŀ	Y 2016 OCO		F	Y 2016 Total	
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	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 ^(†)	Α		-	-	-	10.87	64,975	0.706	13.21	65,938	0.871	12.48	22,435	0.280	-	-	-	12.48	22,435	0.2
12.4) A576 PRODUCTION ENGINEERING			-	-	0.871	-	-	0.607	-	-	0.378	-	-	0.232	-	-	_	-	-	0.2
12.5) A576 QUALITY ASSURANCE			-	-	0.016	-	-	0.006	-	-	0.003	-	-	0.001	-	-	-	-	-	0.0
12.6) A576 ACCEPTANCE TESTING			-	-	1.041	-	-	-	-	-	0.103	-	-	0.013	-	-	-	-	-	0.0
Subtotal: 12) A576 CTG, CAL .50 4 & 1 LINKED			-	-	62.217	-	-	12.628	-	-	14.270	-	-	4.907	-	-	-	-	-	4.9
14) AA67 CTG 5.56MM MC	LY C	OATED	(77GR)	,			'						,					,		
14.1) AA67 COMPLETE ROUND ^(†)	А		-	-	_	-	-	_	_	-	_	0.65	392,308	0.255	-	_	_	0.65	392,308	0.2
Subtotal: 14) AA67 CTG 5.56MM MOLY COATED (77GR)			-	-	0.000	-	-	-	-	-	-	_	-	0.255	-	-	-	_	-	0.2
15) AA91 CTG 5.56MM MF	289-	0 FX MK	G BLUE																	
15.1) AA91 COMPLETE ROUND ^(†)	А		-	_	_	-	_	-	0.59	579.661	0.341	0.61	2,198,361	1.341	_	-	_	0.61	2,198,361	1.3
Subtotal: 15) AA91 CTG 5.56MM MK289-0 FX MKG BLUE			-	-	0.000	-	-	-	-	-	0.341	_	-	1.341	-	-	_	_	-	1.3
16) AA92 CTG, 5.56MM FX	RE	MKG L	KD										-							
16.1) AA92 COMPLETE ROUND ^(†)	Α		_	_	_	_	_	-	0.59	1,450,847	0.853	0.61	3,042,623	1.856	_	_	_	0.61	3,042,623	1.8
Subtotal: 16) AA92 CTG, 5.56MM FX RED MKG LKD			-	-	0.000	-	-	-	-	-	0.853	-	-	1.856	-	-	-	-	-	1.8
17) AB05 CTG, 5.56MM BI	UE I	IKG SN	GL RD				1								,			-		-
17.1) AB05 COMPLETE ROUND ^(†)	А		-	-	_	-	-	-	0.59	4,700,847	2.795	0.61	6,239,344	3.806	-	-	_	0.61	6,239,344	3.8
Subtotal: 17) AB05 CTG, 5.56MM BLUE MKG SNGL RD			-	-	0.000	-	-	_	-	-	2.795		-	3.806	-	_	-	_	-	3.8

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Aggregated Items Title:
1000 / Small Arms Ammunition

Small Arms Ammunition

				Prior Years			FY 2014			FY 2015			FY 2016 Base	,	ı	FY 2016 OCC)		FY 2016 Tota	
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	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 ^(†)	А		-	-	-	-	-	-	0.59	2,877,966	1.692	0.61	4,422,951	2.698	-	-	-	0.61	4,422,951	2.69
Subtotal: 18) AB06 CTG, 5.56MM FX RED MKG SGL RD			-	-	0.000	-	-	-	-	-	1.692	-	-	2.698	-	-	-	-	-	2.69
19) AXX1 CTG, CALIBER	.50 R	EDUCE	D RANGE 4 B	ALL/1																
19.1) AXX1 COMPLETE ROUND ^(†)	A		4.75	842,105	4.000	4.88	677,914	3.305						_				_		
Subtotal: 19) AXX1 CTG, CALIBER .50 REDUCED RANGE 4 BALL/1			4.75	-	4.000	-	-	3.305	-	-		-	-		-	-	-	-	-	-
20) AXX3 CTG 9MM BLAN	IK SII	NGLE R	OUND																	
20.1) AXX3 COMPLETE	A																			
ROUND ^(†)			-	-	-	2.56	135,545	0.347	2.70	55,058	0.149	2.68	28,731	0.077	-	-	-	2.68	28,731	0.07
Subtotal: 20) AXX3 CTG 9MM BLANK SINGLE ROUND			_	-	0.000	-	-	0.347	-	-	0.149	-	-	0.077	-	-	-	-	-	0.07
21) FDTC FIRST DESTINA	TION	TRANS	SPORTATION													,				
21.1) FDTC FIRST DESTINATION TRANSPORTATION	A		-	-	3.603	-	-	0.735	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 21) FDTC FIRST DESTINATION TRANSPORTATION			-	-	3.603	-	-	0.735	-	-	_	-	-	-	-	-	-	-	-	-
22) PRIOR YEARS CUMU	ATIV	E FUNI	DING																	
22.1) PRIOR YEARS CUMULATIVE FUNDING	A		-	-	21.362	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-
Subtotal: 22) PRIOR YEARS CUMULATIVE FUNDING			_	-	21.362	-	-	-	_	-	-	-	_	-	-	-	-	-	-	-
Total					274.565	-	_	28.254	_	_	41.183			46.848	_	_	_	_	_	46.84

 $^{^{(\}dagger)}$ indicates the presence of a P-5a

Footnotes:

LI 1000 - Small Arms Ammunition Navy

⁽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.

					SSIFIED			D (E					
Exhibit P-5a, Procurement				lavy				Date: February 2015					
Appropriation / Budget Ac 1508N / 02 / 1	tiv	ity / B	udget Sub Activity:	P-1 Line Item Numb 1000 / Small Arms A				Aggregated Items: Small Arms Ammunition					
Item Number / Title [DODIC]	0 C 0		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) ^(†)	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) ⁽¹⁾		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	Υ			
1.4) A059 BOX METAL M2A1 (EA) (2)	1	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)	1	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)	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									T				
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	Υ			

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Exhibit P-5a, Procurement	Hi	story	and Planning: PB 2016 Na	ıvy				Date: Fe	Date: February 2015						
Appropriation / Budget Ac 1508N / 02 / 1	tivi	ty / Bu	•	P-1 Line Item Num 1000 / Small Arms <i>A</i>					ated Item						
Item Number / Title [DODIC]	0 0	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	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						1									
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)	1	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 GRAD	E														
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	Υ					
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	Υ					
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	1	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 BA	LL														
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 N	lavy	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Aggregated Items:
1508N / 02 / 1	1000 / Small Arms Ammunition	Small Arms Ammunition

1508N / 02 / 1			1000 / Small Arms Ammunition					Small Arms Ammunition					
Item Number / Title [DODIC]	0 C 0	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)	1	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	Υ			
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	Υ			
11.2) A552 BOX METAL M2A2	1	2014	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2014	May 2014	3,964	10.87	Υ			
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) ^(†)	1	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) ^(†)	1	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	1	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	1	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			

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Exhibit P-5a, Procuremen	t Hi	story	and Planning: PB 2016 N	lavy				Date: F	ebruary 20)15			
Appropriation / Budget Ad 1508N / 02 / 1	ctiv	ity / Bu	udget Sub Activity:	P-1 Line Item Numl 1000 / Small Arms A				Aggregated Items: Small Arms Ammunition					
Item Number / Title [DODIC]	0 0	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?		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 N	IKG I	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	1											
16.1) AA92 COMPLETE ROUND		2015	TBD / TBD	SS/FFP	MCSC, QUANTICO, VA	Dec 2015	Jun 2016	1,450,847	0.59	Υ			
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 S	NGL	RD											
17.1) AB05 COMPLETE ROUND		2015	TBD / TBD	SS/FFP	MCSC, QUANTICO, VA	Dec 2015	Jun 2016	4,700,847	0.59	Υ			
17.1) AB05 COMPLETE ROUND		2016	TBD / TBD	SS/FFP	MCSC, QUANTICO, VA	Mar 2016	Sep 2016	6,239,344	0.61	Υ			
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 REDUC	ED R	ANGE 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	ROU	ND											
20.1) AXX3 COMPLETE ROUND		2014	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	Υ			
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.

					on Sc					-														Date	: Feb	ruary	2015				
		opriati 1 / 02 /		Budge	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:		-	Item mall A	-										regat II Arm			ion			
		(Units in		ms (* = < 500	units))							Fiscal Y	ear 2013											Fiscal Ye	ear 2014						
					ACCEPT									С	alendar	Year 201	13								Calen	dar Year	2014				
O F C R O #	:	FY SEI	RVICE	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	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	J J	A U G	S E P	B A L
1) A0	59 C	TG, 5.56M	M BALI	_																									· ·		
1.	1) A(059 LOAD	ASSEN	BLE AND	PACK (L	AP) (1)																									
Pr	_	ears Deliv			1				1											1											
1	_	015 NAV		53.557	-	53.557																									53.55
√ 1	-	015 NAV		12.633	-	12.633																									12.63
1		016 NAV		92.447	-	92.447																									92.44
		CTG, CAL																													
					ND PACK (LAP)																									
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_	+-	013 NAV		7.325	-	7.325											Α -	-	-	-	-	-	-	.610	.610	.610	.610	.610	.610	.610	
2	_	014 NAV		2.651	-	2.651																					A -	-	-	-	2.65
	+-	014 NAV		3.719	-	3.719																					A -	-	-	-	3.71
√ 2		015 NAV	Y	3.479	-	3.479																									3.47
2	_																														2.98
2 √ 2	20	015 NAV		2.985	-	2.985							1	1 1			1														
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Volume 2 - 13 P-1 Line #15

Exl	nibit F	P-21, Pro	oducti	ion Sc	hedul	le: PE	3 2016	6 Nav	у														Date	: Feb	ruary	2015				
	propr 8N / (iation / 02 / 1	Budge	et Acti	vity /	Budg	jet Su	ıb Ac	tivity	:	1		Item mall A												ed Ite ns Am		ion			
	(Ur	lte nits in Millions	ems : (* = < 500	0 units))							Fiscal Y	ear 2015											Fiscal Ye	ear 2016						
	_			ACCEPT									C	alendar '	Year 201	5								Calen	dar Year	2016				
O F	: R	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	0 C T	N O V	DEC	J A N	F E B	M A R	A P R	M A Y	N C L	J U L	A U G	S E P	0 C T	A 0 W	D E C	J A N	FEB	M A R	A P R	M A Y	J U N	n n	A U G	S E P	B A L
1) A0	59 CTG,	5.56MM BAL	Ĺ																											
1.	1) A059 L	OAD, ASSE	MBLE AND	D PACK (L/	AP) (1)																									
Р	rior Years	Deliveries: 2	37257491																											
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	j -
√ 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	j -
1	2016	NAVY	92.447	-	92.447																		Α -	-	-	-	-	-	-	92.4
12) A	576 CTG,	CAL .50 4 &	1 LINKE	D																										
		LOAD, ASSE		ND PACK (LAP)																									_
Р		Deliveries: 1	8722207																											
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													<u> </u>
1 2		NAVY	3.719		3.719	-	-	-	-	-	-	-	.930	1.673	1.116								1							┷
2		NAVY	3.479		3.479						Α -	-	-	-	-	-	-	.348	-	-	.348	.348		.348	.348	.348	.348	.348	.348	_
√ 2			2.985		2.985						Α -	-	-	-	-	-	-	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	_
2	2016	NAVY	2.198	-	2.198																		Α -	-	-	-	-	-	-	2.1
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N 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	n 1	A U G	S E P	B A L

Exh	ibi	it P	P-21, Pro	oducti	ion Sc	hedu	le: PB	2016	Nav	/														Dat	e: Fel	oruary	/ 201	5			
			iation / 1 02 / 1	Budge	et Acti	vity /	Budg	et Su	b Act	ivity:			_	Item nall A	-			l							grega all Arr						
		(Un	lte nits in Millions	ms (* = < 500	units))							Fiscal Y	ear 2017											Fiscal \	ear 2018	3					
					ACCEPT									C	alendar `	Year 201	7								Cale	ndar Yea	r 2018				
O F C R O #	:	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
) A0	59 C	TG, 5	5.56MM BALI	_																			,								
1.	1) A(.059 L	OAD, ASSE	IBLE AND	PACK (LA	AP) (1)																									
Pr	ior Y	Years	Deliveries: 2	37257491																											
1	20	015	NAVY	53.557	53.557	-																									
1	20	015	NAVY	12.633	12.633	-																									L
1			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	7.704													
<u> </u>			CAL .50 4 &																												
			LOAD, ASSE		ND PACK (LAP)																									
_	_		Deliveries: 1		1																									_	_
-	+		NAVY	7.325	7.325	-																									
2	_		NAVY	2.651	2.651	-																									
/ 2	+	_	NAVY	3.719	3.719	-																									
2	_		NAVY	3.479	3.479	-																									
/ 2	_		NAVY	2.985	2.985	-																									<u> </u>
2	20	016	NAVY	2.198	-	2.198	.183	.183	.183	.183	.183	.183	.183	.183	.183	.183		.183			1 _					T	Ι.	Ι.	1 -		\vdash
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Volume 2 - 15 P-1 Line #15

Exhibit P-21, Production Schedule: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Aggregated Items:
1508N / 02 / 1	1000 / Small Arms Ammunition	Small Arms Ammunition

		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MFF	2					Init	al			Reo	rder	
Ref	l .	MSR For 2016	1-8-5 For 2016	MAX For 2016	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
	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

[&]quot;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 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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P-1 Line #15 Volume 2 - 16

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1030 / Linear Charges, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	A		Program Ele	ments for Cod	de B Items:			Other Relate	d Program El	ements:		
	Prior			FY 2016	FY 2016	FY 2016					То	
Resource Summary	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	109.267	9.398	9.535	0.350	-	0.350	-	20.020	24.621	33.193	-	206.384
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	109.267	9.398	9.535	0.350	-	0.350	-	20.020	24.621	33.193	-	206.384
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	109.267	9.398	9.535	0.350	-	0.350	-	20.020	24.621	33.193	-	206.384
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request:	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

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 antipersonnel 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.

LI 1030 - Linear Charges, All Types Navy Page 1 of 5

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1030 / Linear Charges, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pr	ogram	Elements for Code	B Items:	Ot	her Related Program I	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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)			
1 / Linear Charges, All Types	P-5, P-5a		- / 109.267	- / 9.398	- / 9.535	- / 0.350	- / -	- / 0.350
Total Gross/Weapon System Cost			- / 109.267	- / 9.398	- / 9.535	- / 0.350	- 1 -	- / 0.350

*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 Reguest: \$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

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).

FY 2014 Base Appropriation: \$6.088M.

Supported the linear demo high explosive charge and the anti-personnel obstacle breeching system (APOBS). All of these items were in the training and combat requirements which were identified in the Total Munitions Requirement (TMR).

OCO.

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

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).

FY 2014 Overseas Contingency Operations (OCO) Reguest: \$3.310M.

Supported the anti-personnel obstacle breeching 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).

LI 1030 - Linear Charges, All Types Navy

UNCLASSIFIED

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Exhibit P-5, Cost A Appropriation / Bu	Analysis	DD 202																
). FD 20	16 Navy										D	ate: Fe	ebruary 2	2015		
1508N / 02 / 1	udget Ad	ctivity / F	Budget \$	Sub Acti	vity:		ine Item / Linear								mber / T ar Charge			
D Code (A=Service Ready	y, B=Not Servi	ce Ready) :							МЕ	DAP/MAIS	Code:							
R	esource	Summa	ary		F	Prior Yea	ars	FY 20	14	FY	2015	FY 201	6 Base	• F	Y 2016 C	СО	FY 2016	Total
Procurement Quantity (Units	s in Each)		-				-		-		-			-		-		-
Gross/Weapon System Cos	st (\$ in Million	s)					109.267		9.398		9.53	35	0.3	350		-		0.350
ess PY Advance Procuren	nent (\$ in Mill	lions)					-		-		-			-		-		-
Net Procurement (P1) (\$ in I	Millions)						109.267		9.398		9.53	35	0.3	350		-		0.350
Plus CY Advance Procurem	nent (\$ in Mill	ions)					-		-		-			-		-		-
Total Obligation Authority	(\$ in Millions	;)					109.267		9.398		9.53	35	0.3	350		-		0.350
(The	e following F	Resource Su	mmary rows	are for info	rmational pu	irposes only	. The corres	ponding bud	get requests	s are docume	ented elsewi	nere.)						
nitial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Unit	it Cost (\$ in E)ollars)					-		-		-			-		-		-
															1			
Note: Subtotals or Totals in				add, due to														
	P	Prior Years	i		FY 2014			FY 2015		FY	2016 Bas	е	FY:	2016 OC	0	F'	Y 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)		t Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - M913 CHG DEMO		. ,		(4)	(200)	(Ψ)	(4)	(200)	(4 17	(4)	(200)	(4 111)	(Ψ)	(200)	(Ψ)	(4)	(200)	[ψ,
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 F	3REACHING S	SYSTEM Cost							,			,					

LI 1030 - Linear Charges, All Types Navy UNCLASSIFIED
Page 3 of 5

Exhibit P-5, Cost Analysis: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Item Number / Title [DODIC]:

1030 / 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.

	F	Prior Years	3		FY 2014			FY 2015		F۱	/ 2016 Ba	se	FY	/ 2016 OC	0	FY	2016 Tot	al
Cost Elements	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 C	UMULATIVE F	UNDING Cost	t															
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

Exhibit P-5a, Procurement History and Planning: PB 2016 N	lavy	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
1508N / 02 / 1	1030 / Linear Charges, All Types	1 / Linear Charges, All Types

					• • •				J	•	· .	
Cost Elements	0 0	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?	Revision	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)	1	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)	1	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	1	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	1	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	1	2014	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	ROCK ISLAND ARSENAL	May 2015	May 2017	189	17,454.54	Y		



Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1050 / 40 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	A		Program Elei	ments for Co	de B Items:			Other Relate	d Program El	ements:		
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	333.805	13.138	14.063	0.500	-	0.500	-	-	10.047	16.557	-	388.110
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	333.805	13.138	14.063	0.500	-	0.500	-	-	10.047	16.557	-	388.110
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	333.805	13.138	14.063	0.500	-	0.500	-	-	10.047	16.557	-	388.110
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are document	ed elsewhere.)	î'		1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Navy

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.

LI 1050 - 40 MM, All Types UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1050 / 40 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pro	gram	Elements for Code	B Items:	Oti	ner Related Program I	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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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	- 1 -	- / 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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LI 1050 - 40 MM, All Types Navy

P-1 Line #17

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Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in M Less PY Advance Procurement (\$ in Net Procurement (P1) (\$ in Millions) Plus CY Advance Procurement (\$ in Total Obligation Authority (\$ in Mil	Service Ready): rce Summa in Millions) in Millions) in Millions) ing Resource Summa	Budget Si			I	Line Item 0 / 40 MM ars		es M	OAP/MAIS	6 Code: 2015	FY 20	li	tem Nu / 40 N	ebruary 2 Imber / T IM, All Ty Y 2016 C	ritle [DO pes	DIC]:	Total
1508N / 02 / 1 ID Code (A=Service Ready, B=Not S Resoul Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in M Less PY Advance Procurement (\$ ii Net Procurement (P1) (\$ in Millions) Plus CY Advance Procurement (\$ ii Total Obligation Authority (\$ in Mill	Service Ready): rce Summa) Millions) in Millions) in Millions) ing Resource Summa	ary			1050	ars - 333.805	I, All Typ	es MC 914			FY 20	1	/ 40 N	IM, All Ty	pes		Total
Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in M Less PY Advance Procurement (\$ in M Net Procurement (P1) (\$ in Millions) Plus CY Advance Procurement (\$ in M Total Obligation Authority (\$ in Millions) (The following Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Millions)	rce Summa) fillions) in Millions) n Millions) ing Resource Su		are for info	F	Prior Ye	333.805	FY 20	14			FY 20	16 Bas	e F	Y 2016 C	СО	FY 2016	Total
Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in M Less PY Advance Procurement (\$ ii Net Procurement (P1) (\$ in Millions) Plus CY Advance Procurement (\$ ii Total Obligation Authority (\$ in Millions) (The followi Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$	n) in Millions) in Millions) in Millions) in Millions) illions) ing Resource St		are for info	F	Prior Ye	333.805	FY 20		FY	2015	FY 20	16 Bas	e F	Y 2016 C	СО	FY 2016	Total
Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in M Less PY Advance Procurement (\$ ii Net Procurement (P1) (\$ in Millions) Plus CY Advance Procurement (\$ ii Total Obligation Authority (\$ in Millions) (The followi Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$	n) in Millions) in Millions) in Millions) in Millions) illions) ing Resource St		are for info			333.805		-									ıUlal
Less PY Advance Procurement (\$ in Net Procurement (P1) (\$ in Millions) Plus CY Advance Procurement (\$ in Total Obligation Authority (\$ in Millions) (The followire Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Millions)	in Millions) n Millions) illions) ing Resource St	ımmary rows a	are for info							-			-		-		-
Net Procurement (P1) (\$ in Millions) Plus CY Advance Procurement (\$ in Total Obligation Authority (\$ in Millions) (The followide Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Millions)	n Millions) illions) ing Resource St	ımmary rows a	are for info			-		13.138		14.06	3	0.	.500		-		0.50
Plus CY Advance Procurement (\$ in Total Obligation Authority (\$ in Millions) (The following Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Millions)	illions) ing Resource Su	ımmary rows a	are for info					-		-			-		-		-
Total Obligation Authority (\$ in Mill (The following Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Millions)	illions) ing Resource Su	ımmary rows a	are for info			333.805		13.138		14.06	3	0.	.500		-		0.50
(The following Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ 1)	ing Resource Su	ımmary rows a	are for info			-		-		-			-		-		-
Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$		ımmary rows a	are for info			333.805		13.138		14.06	3	0.	.500		-		0.50
Gross/Weapon System Unit Cost (S	\$ in Dollars)		2	rmational pu	ırposes onl	y. The corres	ponding bud	get request	are docum	ented elsewh	ere.)						
	\$ in Dollars)					-		-		-			-		-		
Note: Subtotals or Totals in this Ex						-		-		-			-		-		-
Total of Total III and Ex	hibit P-5 may no	t be exact or a	ndd due to	rounding		-											
I I	Prior Years		,	FY 2014			FY 2015		F	/ 2016 Bas	9	FY	2016 O		F`	Y 2016 Tot	al
		Total			Total			Total			Total			Total			Total
Cost Elements Unit Co	ost Qty (Each)	Cost (\$ M)	Init Cost (\$)	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Init Cost (\$)	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)
Hardware - B542, CTG 40MM HEDP LN	NKD Cost		'							'	'	'		'			
Recurring Cost														_			
1.1.1) B542 LOAD, ASSEMBLE, AND PACK C1 ^(†) 33	3.91 4,276,024	144.993	_			45.95	123,572	5.678	_					_			ı
1.1.2) B542 LOAD,	5.91 4,276,024	144.993	-	-	-	45.95	123,572	5.076	-	-	-	-	-	-	-	-	
ASSEMBLE, AND	3.90 1,447,270	49.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.3) B542 PRODUCTION ENGINEERING		3.179	_	_	_	_	_	1.010	_	-	0.500	_	_	_	_	_	0.50
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	-	-	-	-	-	0.50
Subtotal: Hardware - B542, CTG 40MM HEDP LNKD Cost		197.470	-	-	-	_	-	6.688	_	-	0.500	-	_	_	-	-	0.50
Hardware - BA21, CTG 40MM, PRACTI	ICE DAY/NIGHT N	K281/1 Cost															
Recurring Cost																	
2.1.1) BA21 LOAD, ASSEMBLE, AND PACK 30	0.14 1,325,874	39.959	_														

LI 1050 - 40 MM, All Types Navy UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2016 Navy **Date:** February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 1508N / 02 / 1 1050 / 40 MM, All Types 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. FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total **Prior Years** Total Total Total Total Total Total **Unit Cost** Qtv Cost **Unit Cost** Qty Cost **Unit Cost** Qtv Cost **Unit Cost** Qtv Cost **Unit Cost** Qtv Cost **Unit Cost** Qtv Cost Cost Elements (\$) (Each) (\$ 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. ASSÉMBLE, 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

LI 1050 - 40 MM, All Types Navy UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:

1050 / 40 MM, All Types

Date: February 2015

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.

	P	rior Years	\$		FY 2014			FY 2015		FY	2016 Ba	se	F'	/ 2016 OC	0	F	2016 Tot	al
Cost Elements	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

^(†) indicates the presence of a P-5a

LI 1050 - 40 MM, All Types Navy UNCLASSIFIED
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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Item Number / Title [DODIC]:
1050 / 40 MM, All Types

			I									
Cost Elements	0 C 0	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 / JANESVILE, 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	1	2013	AMTEC CORPORATION / JANESVILE, 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	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 ^(†)	1	2012	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 ^(†)	1	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 ^(†)	1	2015	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Mar 2015	Mar 2016	647,037	10.97	Y		Jan 2015

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ Award delayed 15 months due to price negotiation and discussions, along with DCAA audit delays.

⁽²⁾ Award delayed 15 months due to price negotiation and discussions, along with DCAA audit delays.

Ex	nibit F	P-21, Pro	oducti	on Sc	hedu	le: PE	3 201	6 Nav	/y														Date	e: Fel	oruary	/ 2015	5			
-	propr)8N / (i ation / 1 02 / 1	Budge	t Acti	vity /	Budg	get Si	ub Ac	tivity	:			Item O MM,			Title:										Title Types)IC]:		
	(Ui	Cost E	lements (* = < 500	units))							Fiscal Y	ear 2013											Fiscal Y	ear 2014	ı					
	_			ACCEPT									C	alendar	Year 201	13								Cale	ndar Yea	r 2014				
0 0 0	₹	SERVICE	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	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	JUL	A U G	S E P	B A L
		DAD, ASSEM	IBLE, AND	PACK							l																			
-	2012	NAVY	1.810	-	1.810																					Α -	-	-	-	1.810
1	2012	NAVY	.398	-	.398																					Α -	-	-	-	.398
	2014	NAVY	.615	-	.615																					Α -	-	-	-	.615
1	2014	NAVY	.586	-	.586																					Α -	-	-	-	.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	J 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	N N J	J U L	A U G	S E P	B A L

Ex	hib	oit P	-21, Pro	ducti	on Sc	hedul	le: PE	3 201	6 Nav	'y														Date	: Feb	ruary	2015				
_	-	_	ation / I 2 / 1	Budge	t Acti	vity /	Budg	get Si	ıb Ac	tivity	:				Num All T		Title:							Item 1 / 40				-	IC]:		
		(Un	Cost El its in Millions	ements (* = < 500	units))							Fiscal Y	ear 2015	;					,			,		Fiscal Ye	ar 2016						
					ACCEPT									C	alendar	Year 201	5								Calen	dar Year	2016				
0 0		FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N C	n n	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	N U	J J	A U G	S E P	B A L
3.1.	.1) BA	A35 LC	DAD, ASSEM	BLE, AND	PACK																					-					
	1 2	2012	NAVY	1.810	-	1.810	-	-	-	-	-	-	-	-	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151					-
1	1 2	2012	NAVY	.398	-	.398	-	-	-	-	-	-	-	-	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033					-
	1 2	2014	NAVY	.615	-	.615	-	-	-	-	-	-	-	-	.059	.059	.059	.059	.059	.059	.059	.059	.059	.059	.025						-
1	1 2	2014	NAVY	.586	-	.586	-	-	-	-	-	-	-	-	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049					-
1	1 2	2015	NAVY	.647	-	.647						A -	-	-	-	-	-	-	-	-	-	-	-	.054	.054	.054	.054	.054	.054	.054	.27
							0 C	N O	D E	J A	F E B	M A	A P	M A	r n r	Ŋ	O D D	S E	O C	N O	D E	J A	F E	M A	A P	M A	J	N N	A U G	S E	B

Ex	chik	bit P	-21, Pro	ducti	on Sc	hedul	le: PE	2016	Nav	у														Date	e: Feb	oruary	2015	5			
-	-	-	ation / I)2 / 1	Budge	t Acti	vity /	Budg	et Su	b Ac	tivity	:	1 - '	Line 50 / 40				Title:								Num 0 MM				DIC]:		
		(Un	Cost El its in Millions		units))							Fiscal \	rear 2017											Fiscal Y	ear 2018						
					ACCEPT									(alendar	Year 20	17								Caler	dar Year	2018				
0 C 0		FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	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
3.1.	.1) B	A35 L0	DAD, ASSEM	BLE, AND	PACK																1										
	1	2012	NAVY	1.810	1.810	-																									-
1	1	2012	NAVY	.398	.398	-																									-
	1	2014	NAVY	.615	.615	-																									-
1	1	2014	NAVY	.586	.586	-																									-
√	1	2015	NAVY	.647	.377	.270	.054	.054	.054	.054	.054																				-
							0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
1508N / 02 / 1	1050 / 40 MM, All Types	1 / 40 MM, All Types

		Produc	ction Rates (Each	/ Year)				Procurement Lea	adtime (Months)			
MFR						Initia				Reo	rder	
Ref	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	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		. 5 5 1 5 1 25 1 5	III/6(1 6) 2010	1 1101 10 001 1	Autor Got I		71101 001 1	1 1101 10 001 1	Autor Got 1	9	7.1.101 001 1
	MUNITIONS - CAMDEN, AR	40,000	90,000	6,000,000	6	10	12	22	6	10	12	22

[&]quot;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 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).

LI 1050 - 40 MM, All Types

Navy

F

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1083 / 60 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	Α		Program Eler	ments for Cod	de B Items:			Other Relate	d Program El	ements:		
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	38.184	8.017	8.196	1.849	-	1.849	1.855	1.860	1.871	1.906	-	63.738
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	38.184	8.017	8.196	1.849	-	1.849	1.855	1.860	1.871	1.906	-	63.738
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	38.184	8.017	8.196	1.849	-	1.849	1.855	1.860	1.871	1.906	-	63.738
(The following	g Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The family of 60mm mortar cartridges is of	designed to be fired from the M224 lightweight morta	ar system in support of Infantry Company :	sized maneuvers. The f	family of munitions consists of	high explosive
	The 60mm family of cartridges is used to provide of				

UNCLASSIFIED

LI 1083 - 60 MM, All Types

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1083 / 60 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pro	ogram	Elements for Code	B Items:	0	ther Related Program I	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) I (\$ M)	Quantity / Total Cost (Each) I (\$ 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 -	- / 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).

UNCLASSIFIED
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LI 1083 - 60 MM, All Types Navy

P-1 Line #18 Volume 2 - 34

Exhibit P-5, Cost Analysis: PB 2016 Navy Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 1508N / 02 / 1 1 / 60 MM, All Types 1083 / 60 MM, All Types MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **Prior Years FY 2016 Base** FY 2016 Total FY 2014 FY 2015 **FY 2016 OCO** Resource Summary Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 38.184 8.017 8.196 1.849 1.849 Less PY Advance Procurement (\$ in Millions) Net Procurement (P1) (\$ in Millions) 38.184 8.017 8.196 1.849 1.849 Plus CY Advance Procurement (\$ in Millions) Total Obligation Authority (\$ in Millions) 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 (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Dollars) _ Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost Unit Cost** Qty Cost **Unit Cost** Qty **Unit Cost** Qty Cost Qty Cost Qty Qty Cost Cost Cost Cost Elements (\$ M) (Each) (Each) (Each) (Each) (Each) (\$ M) (\$) (\$ M) (\$) (Each) (\$ M) (\$ M) (\$) (\$ M) (\$) (\$) (\$) Hardware - BA16, CARTRIDGE, 60MM WITH MOF Cost Recurring Cost 1.1.1) BA16 LOAD. ASSEMBLE, AND PACK (LAP)(†) 1.877 54.63 34,358 1.1.2) BA16 FUZE, MULTI-OPTION 3.419 M734A1 213.06 16,047 1.1.3) BA16 SHELL BODY (HF1) 60MM 39.88 35,735 1.425 1.1.4) BA16 M702 IGNITION

UNCLASSIFIED

0.199

1.300

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CARTRIDGE(†)

1.1.6) BA16 FIN ASSEMBLY M27

1.1.8) BA16 QUALITY ASSURANCE

1.1.5) BA16 PROPELLANT CHARGE M235^(†)

1.1.7) BA16 PRODUCTION ENGINEERING

1.1.9) BA16 ACCEPTANCE TESTING 17.16

7.64

7.02

35,726

142,977

35,742

0.613

1.093

0.251

0.937

0.006

1.160

Exhibit P-5, Cost Analysis: PB 2016 Navy Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 1508N / 02 / 1 1083 / 60 MM, All Types 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. **FY 2016 Base** FY 2014 FY 2015 **FY 2016 OCO** FY 2016 Total **Prior Years** Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qtv Cost Qty Cost **Unit Cost** Qtv Cost Qtv Cost **Unit Cost** Qtv Cost **Unit Cost** Qtv Cost **Cost Elements** (Each) (\$) (Each) (\$ M) (\$) (\$ 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. ASSÉMBLE 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 49.727 1.898 38.93 11.335 0.441 38.93 11.335 0.441 38.17 2.1.4) BA15 M702 IGNITION CARTRIDGE^(†) 16.73 11,335 13.25 46,805 0.620 16.41 19,367 0.318 11,335 0.190 16.73 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 9.99 11,335 0.113 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

LI 1083 - 60 MM, All Types Navy UNCLASSIFIED
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P-1 Line #18 Volume 2 - 36

Exhibit P-5, Cost Analysis: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

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.

	P	rior Years	S		FY 2014			FY 2015		FY	/ 2016 Ba	se	FY	/ 2016 OC	0	FY	/ 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
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	-	-	_	-	-	1.84

^(†) indicates the presence of a P-5a

LI 1083 - 60 MM, All Types Navy UNCLASSIFIED
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P-1 Line #18

Volume 2 - 37

Exhibit P-5a, Procurement History and Planning: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:
1083 / 60 MM, All Types

Date: February 2015

Item Number / Title [DODIC]:
1 / 60 MM, All Types

1508N / 02 / 1			1	083 / 60 MM, All 1	ypes			1 / 60 M	ім, Антур	es		
Cost Elements	0 0	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)	1	2012	POCAL INDUSTRIES / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2014	Dec 2014	15,430	61.24			
1.1.4) BA16 M702 IGNITION CARTRIDGE	1	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	1	2012	AMERICAN ORDANCE / 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)	1	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)	1	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	1	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	1	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	1	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	1	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	1	2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	23,396	13.25	Y		

LI 1083 - 60 MM, All Types Navy

Exhibit P-5a, Procurement History and Planning: PB 2016 NavyDate: February 2015Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:Item Number / Title [DODIC]:1508N / 02 / 11 / 60 MM, All Types1 / 60 MM, All Types

					71				,			
Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost		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	Υ		
2.1.4) BA15 M702 IGNITION CARTRIDGE	1	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	9,698	16.41	Υ		
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	1	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	1	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	1	2014	Flexible Concepts / Elkhart, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	25,591	7.19	Υ		
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	Υ		
2.1.6) BA15 FIN ASSEMBLY M27	1	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	40,102	9.80	Υ		
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		



Exhibit P-40, Budget Line Item Justification: PB 2016 Nav	vy	Date: February	y 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1091 / 81 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	A		Program Elei	ments for Cod	de B Items:			Other Relate	d Program El	ements:		
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	128.365	9.202	10.814	1.000	-	1.000	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	128.365	9.202	10.814	1.000	-	1.000	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	128.365	9.202	10.814	1.000	-	1.000	-	-	-	-	Continuing	Continuing
(The following	g Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are document	ed elsewhere.)	•	- (-		=1
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

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.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1091 / 81 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Prog	gram	Elements for Code	B Items:	Ot	her Related Program I	Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*		ID CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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 -	- / 1.000

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

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

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).

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).

FY 2014 Base Appropriation: \$.040M.

Provided First Destination Transportation (FDTC) of items that were delivered in FY14.

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

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).

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).

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LI 1091 - 81 MM, All Types Page 2 of 9 Navy

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							U	NCLAS	SIFIED)								
Exhibit P-5, Cost	Analysis	s: PB 20	16 Navy											Date: F	ebruary 2	2015		
Appropriation / B 1508N / 02 / 1	udget A	ctivity /	Budget	Sub Act	ivity:			n Numbe 1, All Typ							umber / 1 //M, All Ty		DIC]:	
ID Code (A=Service Read	dy, B=Not Serv	ice Ready) :							М	DAP/MAIS	Code:							
F	Resource	Summa	arv		F	Prior Ye	ars	FY 20)14	FY	2015	FY	2016 Bas	se F	Y 2016 C	ОСО	FY 2016	Total
Procurement Quantity (Uni	its in Each)						-		-		-			-		-		-
Gross/Weapon System Co	ost (\$ in Millior	ns)					128.365		9.202		10.8	14		1.000		-		1.000
Less PY Advance Procure	ement (\$ in Mi	llions)					-		-		-			-		-		-
Net Procurement (P1) (\$ in	Millions)						128.365		9.202		10.8	14		1.000		-		1.000
Plus CY Advance Procure	ment (\$ in Mil	llions)					-		-		-			-		-		-
Total Obligation Authorit	t y (\$ in Millions	s)					128.365		9.202		10.8 ⁻	14		1.000		-		1.000
(TI	he following l	Resource Su	ımmary rows	s are for info	rmational pu	urposes onl	y. The corres	sponding bud	lget request	s are docum	ented elsew	here.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in I	Dollars)					-		-		-			-		-		-
Note: Subtotals or Totals in				r add, due to			1									T		
	F	Prior Years			FY 2014			FY 2015		F١	/ 2016 Bas		F`	Y 2016 O		F	Y 2016 Tot	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - C868, CTG, 81MN	. ,	· , ,	_ ' '					, ,	. ,		, ,	. ,	()	. ,	, , ,	1 1.7		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LI 1091 - 81 MM, All Types Navy

UNCLASSIFIED

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Exhibit P-5, Cost Analysis: PB 2016 Navy Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 1508N / 02 / 1 1091 / 81 MM, All Types 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. FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total **Prior Years** Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qtv Cost **Unit Cost** Qty Cost **Unit Cost** Qtv Cost Qtv Cost Qtv Cost **Unit Cost** Qtv Cost **Cost Elements** (Each) (Each) (\$) (\$ M) (\$) (Each) (\$ M) (\$) (Each) (\$ M) (\$) (Each) (\$ M) (\$) (Each) (\$ M) (\$) (\$ M) 1.1.11) C868 ACCEPTANCE **TESTING** 1.085 1.1.12) C868 GOVERNMENT **FURNISHED MATERIAL** -0.235 1.1.13) C868 FIRST 0.050 ARTICLE TEST 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(†) 322,959 3.945 14.95 0.361 0.289 2,140 12.22 24,152 15.81 18,249 16.12 2,140 0.034 16.12 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

LI 1091 - 81 MM, All Types Navv

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P-1 Line #19

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Date: February 2015 Exhibit P-5, Cost Analysis: PB 2016 Navy Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 1508N / 02 / 1 1 / 81 MM, All Types 1091 / 81 MM, All Types ID Code (A=Service Ready, B=Not Service Ready) :

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

MDAP/MAIS Code:

	P	Prior Years	6		FY 2014	-		FY 2015		F	Y 2016 Ba	se	F	2016 OC	0	FY	/ 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
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	-	-	-	-	-	1.00
Subtotal: Hardware - C869, CTG, 81MM HE W/M935 PD FUZE Cost	-	-	84.965	-	-	9.162	-	-	6.170	-	-	1.000	-	-	-	-	-	1.00
Hardware - C870, CTG MOR	TAR 81MM SM	OKE RP M81	9 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	-	-	-	-	-	-	-	-	-

LI 1091 - 81 MM, All Types Navy

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Volume 2 - 45 P-1 Line #19

Exhibit P-5, Cost Analysis: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:
1508N / 02 / 1

Date: February 2015

Item Number / Title [DODIC]:
1 / 81 MM, All Types

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

MDAP/MAIS Code:

		Irian Vac		_	EV 2044			EV 2045			/ 2046 D-			/ 2046 00	^		/ 2046 T-4	اما
	F	Prior Years	i		FY 2014			FY 2015		FY	2016 Bas		FY	/ 2016 OC	U	FY	2016 Tot	1
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Tota Cost												
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 C	UMULATIVE F	UNDING 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	ON TRANSPOR	RTATION CHA	RGES 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	_	_	-	_		

 $^{^{(\}dagger)}$ indicates the presence of a P-5a

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P-1 Line #19

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:
1091 / 81 MM, All Types

1 / 81 MM, All Types

1508N / 02 / 1			1	1091 / 81 MIM, All 1	ypes			1 / 61 1	ім, Антур	es		
Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail	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		Available	
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 I SPRINGBORO, OH	C / FFP	PICATINNY ARSENAL	Sep 2013	Mar 2015	3,792	12.13	Y		
1.1.2) C868 FIN ASSEMBLY		2013	GAYSTON CORP I SPRINGBORO, OH	C / FFP	PICATINNY ARSENAL	Apr 2014	Oct 2015	2,518	12.71	Y		
1.1.3) C868 IGNITION CARTRIDGE		2012	AMERICAN ORDANCE / 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 / MIDDLETON, 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 / KINGSPORT, 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 / CINCINATTI, 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 / CINCINATTI, 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	1	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	1	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	1	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	1	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 NavyDate: February 2015Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:
1091 / 81 MM, All TypesItem Number / Title [DODIC]:
1 / 81 MM, All Types

300N / 02 / 1				091701 WIWI, All 1	ypes			I / O I IVI	ivi, Ali i yp	62		
	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Revision	RFP Issu
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$)	Now?	Available	Date
2.1.3) C869 M935 FUZE	✓	2014	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	C / FFP	ROCK ISLAND ARSENAL	Jun 2014	Dec 2015	24,152	52.25	Y		
2.1.3) C869 M935 FUZE	1	2015	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	C / FFP	ROCK ISLAND ARSENAL	Jun 2015	Dec 2016	18,249	53.25	Υ		
2.1.3) C869 M935 FUZE		2016	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	C / FFP	ROCK ISLAND ARSENAL	Feb 2016	Aug 2017	2,140	54.31	N		
2.1.4) C869 IGNITION CARTRIDGE	1	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	1	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	1	2014	GD-OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Jun 2014	Dec 2015	96,610	10.58	Υ		
2.1.5) C869 PROP CHARGE M220	1	2015	GD-OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Jun 2015	Dec 2016	72,994	12.69	Υ		
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	1	2014	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL	Jan 2014	Jul 2015	24,152	14.95	Υ		
2.1.6) C869 FIN ASSEMBLY	1	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	1	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	1	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	1	2014	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Aug 2014	Apr 2015	76,206	21.90	Υ		
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	1	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	1	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)	1	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	1	2015	CLARIANT CORP <i>I</i> KNAPSACK, GERMANY	C / FFP	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	18,456	12.56	Y		
3.1.5) C870 FUZE M772	1	2015	JUNGHANS MICROTECH GMBH / DENNINGEN	PO	ROCK ISLAND ARSENAL	Apr 2015	Dec 2016	6,337	197.57	Υ		

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Exhibit P-5a, Procurement History and Planning: PB 2016 N	lavy	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
1508N / 02 / 1	1091 / 81 MM, All Types	1 / 81 MM, All Types

Cost Elements	0 0	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?	Revision	RFP Issue Date
3.1.6) C870 IGN CARTRIDGE M752	1	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	1	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	1	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	1	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	1	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		



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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1121 / 120 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	A		Program Eler	ments for Cod	de B Items:			Other Relate	d Program El	ements:		
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	282.513	27.027	19.076	13.867	10.719	24.586	23.763	31.725	37.409	91.657	-	537.756
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	=	-	-	-	-	-

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.

LI 1121 - 120 MM, All Types Navy Page 1 of 10

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1121 / 120 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pro	gram	Elements for Code	B Items:		Other Related Program I	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) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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).

LI 1121 - 120 MM, All Types Page 2 of 10 Navy

Exhibit P-5, Cost	Analysi	s: PB 20	16 Navy										1	Date: F	ebruary 2	2015		
Appropriation / B 1508N / 02 / 1	udget A	ctivity /	Budget \$	Sub Act	ivity:			n Numbe M, All Ty _l							umber / 1 MM, All 1		DIC]:	
ID Code (A=Service Read	ly, B=Not Serv	ice Ready) :							ME	OAP/MAIS	Code:							
F	Resource	Summa	ary			Prior Ye	ars	FY 20	14	FY	2015	FY	2016 Bas	e F	Y 2016 (ОСО	FY 2016	5 Total
Procurement Quantity (Uni	its in Each)						-		-		-			-		-		-
Gross/Weapon System Co	ost (\$ in Million	ns)					282.513		27.027		19.07	76	13	.867		10.719		24.58
Less PY Advance Procure	ement (\$ in Mi	llions)					-		-		-			-		-		-
Net Procurement (P1) (\$ in	Millions)						282.513		27.027		19.07	'6	13	.867		10.719		24.58
Plus CY Advance Procure	ment (\$ in Mi	lions)					-		-		-			-		-		-
Total Obligation Authorit	y (\$ in Million	s)					282.513		27.027		19.07	' 6	13	.867		10.719		24.58
(TI	he following	Resource Su	ımmary rows	are for info	rmational p	urposes only	y. The corres	ponding bud	get request	s are docum	ented elsewi	nere.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in	Dollars)					-		-		-			-		-		-
Note: Subtotals or Totals i	n this Exhibi	P-5 may no	t he exact or	add due to	rounding													
Trete: Gustetale el Tetale I		Prior Years			FY 2014			FY 2015		F\	′ 2016 Bas	е	FY	2016 O	CO	F	Y 2016 To	tal
	-	1101 10410	Total			Total			Total		20.0 200	Total			Total			Total
Cost Elements	Unit Cost	Qty (Each)		Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)
Hardware - CA38, CTG, 120N	IM TANK CAN	IISTER M1028	Cost	. ,		, ,		. , ,	. ,	, ,	. , ,	. ,	.,					
Recurring Cost																		
1.1.1) CA38, CTG, 120MM TANK CANISTER M1028	-	_																
1.1.2) CA38 ENGINEERING			0.001	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-
SUPPORT	-	-	0.001	-	-	-	-	-	3.895	-	-	-	-	-	-	-	-	-
	-	-					-		3.895 3.895								-	-
SUPPORT			-	-	-	-		-		-	-	-		-	-	-		-
SUPPORT Subtotal: Recurring Cost Subtotal: Hardware - CA38, CTG, 120MM TANK	-	-	0.001	-	-	-		-	3.895	-	-	-		-	-	-		-
SUPPORT Subtotal: Recurring Cost Subtotal: Hardware - CA38, CTG, 120MM TANK CANISTER M1028 Cost	-	-	0.001	-	-	-		-	3.895	-	-	-		-	-	-		-
SUPPORT Subtotal: Recurring Cost Subtotal: Hardware - CA38, CTG, 120MM TANK CANISTER M1028 Cost Hardware - CA31, CTG 120M Recurring Cost 2.1.1) CA31 COMPLETE ROUND -	- M TPMP-T M ²	- 002 Cost	0.001	-	-	-	-		3.895	-	-	-		-	-	-		-
SUPPORT Subtotal: Recurring Cost Subtotal: Hardware - CA38, CTG, 120MM TANK CANISTER M1028 Cost Hardware - CA31, CTG 120M Recurring Cost 2.1.1) CA31 COMPLETE ROUND - General Dynamics ^(†)	-	-	0.001	-	-	-		-	3.895	-	-	-		-	-	-		-
SUPPORT Subtotal: Recurring Cost Subtotal: Hardware - CA38, CTG, 120MM TANK CANISTER M1028 Cost Hardware - CA31, CTG 120M Recurring Cost 2.1.1) CA31 COMPLETE ROUND -	- M TPMP-T M ²	- 002 Cost	0.001	-	-	-	-		3.895	-	-			-	-	-	-	-
SUPPORT Subtotal: Recurring Cost Subtotal: Hardware - CA38, CTG, 120MM TANK CANISTER M1028 Cost Hardware - CA31, CTG 120M Recurring Cost 2.1.1) CA31 COMPLETE ROUND - General Dynamics ^(†) 2.1.2) CA31 COMPLETE ROUND -	- M TPMP-T M ⁻ 3,456.38	- 002 Cost 13,250	0.001	-	-	-	2,842.08		3.895			-		-	-	-	-	-

LI 1121 - 120 MM, All Types Navy UNCLASSIFIED
Page 3 of 10

							UI	NCLA5	SILIED	,								
Exhibit P-5, Cost	Analysis	s: PB 20	16 Navy											Date: Fe	bruary 2	2015		
Appropriation / B 1508N / 02 / 1	udget A	ctivity / I	Budget	Sub Acti	vity:	I		Numbe M, All Ty						Item Nu i 1 / 120 M		itle [DOI ypes	DIC]:	
ID Code (A=Service Read	ly, B=Not Servi	ice Ready) :				·			ME	OAP/MAIS	Code:							
Note: Subtotals or Totals i	n this Exhibit	P-5 mav no	t be exact o	r add. due to	rounding.													
		Prior Years			FY 2014			FY 2015		F۱	′ 2016 Bas		F۱	7 2016 OC	0	FY	2016 Tota	al
	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qtv	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Cost Elements	(\$)	(Each)	(\$ M)	(\$)	(Each)	(\$ M)	(\$)	(Each)	(\$ M)	(\$)	(Each)	(\$ M)	(\$)	(Each)	(\$ M)	(\$)	(Each)	(\$ M)
Subtotal: Hardware - CA31, CTG 120MM TPMP-T M1002 Cost	-	-	45.797	-	-	-	-	-	3.109	-	-	-	-	-	-	-	-	-
Hardware - C785 RECAPITA	IZATION PRO	GRAM 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 EXPL	OSIVE CART	RIDGE 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	2,909.23	0,099	19.091	2,769.90	2,302	0.040	_	_	-		-					-		
Subtotal: Recurring Cost	_	-	19.891	_	_	6.648	_	_	_	_	_	_	_	_		_	_	_
Subtotal: Hardware - CA45 HIGH EXPLOSIVE CARTRIDGE M1101 Cost	-	-	19.891	-	-	6.648	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CA49 120MM MC	RTAR WHITE	PHOSPHORU	JS, XM1103 C	Cost	•		·							•				
Recurring Cost																		
6.1.1) CA49 COMPLETE ROUND ^(†)				6 690 06	4.422	0.507	6 926 09	724	F 044	7 004 50	4.075	0.022	7 004 50	4.542	40.740	7.004.50	2.700	40.750
	-	-	-	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, 120N	AM Multi Duraa	so High Evalo	sivo (MD HE)		-	3.507	_	-	3.011	-	-	3.041		-	10.119		-	19.700
Recurring Cost	iivi iviuiu-r-urpo	ise-⊓igii ⊑Xpi0	SIVE (IVIF-ME)	CUSI														
7.1.1) CA57 SYSTEM BUY ^(†)				9,607.67	339	3.257	0.554.90	739	7.061	9,594.43	503	4.826				9,594.43	503	4 826
Subtotal: Recurring Cost	-	-	-	9,607.67	-	3.257	9,554.80	- 739	7.061	9,594.43	-	4.826	-	-	-	9,594.43	-	4.826 4.826
-	·																	

LI 1121 - 120 MM, All Types Navy UNCLASSIFIED
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P-1 Line #20

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:	

Nator Criptotala ay Tatala in this Exhibit D. E. may not be asset ay add, due to younding

	I	Prior Years	S		FY 2014			FY 2015		FY	′ 2016 Ba	se	F	/ 2016 OC	:0	FY	2016 Tot	al
Cost Elements	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	-	-	-	-	-	4.82
Hardware - DWGU 120MM M	ORTAR TAIL	CHARGE ASS	SEMBLY 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 C	UMULATIVE F	FUNDING Cos	t															
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		1														1		
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	_	_	24.580

^(†) indicates the presence of a P-5a

LI 1121 - 120 MM, All Types Navy UNCLASSIFIED
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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:
1121 / 120 MM, All Types

P-1 Line Item Number / Title:
1121 / 120 MM, All Types

					.)				·····, · ··· · ,	P		
Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.1) CA31 COMPLETE ROUND - General Dynamics	1	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	1	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	1	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 ^(†)	1	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 ^(†)	1	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	1	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

Ex	hibit	t P-	-21, Pro	oducti	on Sc	hedul	le: PE	3 201	6 Nav	/y														Date	e: Fel	oruary	/ 2015	5			
	pro p 08N		ation / 1 2 / 1	Budge	et Acti	vity /	Budç	get Si	ub Ac	tivity	:		Line 21 / 12														Title Type)IC]:		
				ements n Each)								Fiscal Y	ear 2014							,				Fiscal Y	ear 2015	1					
					ACCEPT									C	alendar	Year 201	4						_		Cale	ndar Yea	r 2015				
000	M F R # F)	Y	SERVICE	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	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	J U	A U G	S E P	B A L
6.1.	1) CA4	9 CO	MPLETE R	OUND											,	,		,								'					
1	1 201	14 N	NAVY	1,423	-	1,423																									1,42
	1 201	15 N	NAVY	734	-	734																									734
	1 201	16 N	NAVY	1,275	-	1,275																									1,27
1	1 201	16 N	NAVY	1,513	-	1,513																									1,513
							0 C T	N O V	D E C	J A	F E B	M A	A P R	M A	N N	n n	A U G	S E	0 C T	N O V	D E	J A N	F E B	M A R	A P	M A	J U	n n	A U G	S E	B A

Ex	hibit	P-21,	Prod	ucti	on Sc	hedul	le: PE	3 201	6 Nav	'y														Date	: Feb	ruary	2015	5			
-		riatio 02 / 1		ıdge	t Acti	vity /	Budç	get Si	ub Ac	tivity	:		Line 21 / 12														Title Type		IC]:		
			ost Elem Jnits in E									Fiscal Y	ear 2016							,				Fiscal Y	ear 2017						
					ACCEPT									C	alendar	Year 201	6								Calen	dar Yea	r 2017				
0 0 0		SERV		ROC QTY	PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	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
6.1.	1) CA49	COMPLE	TE ROU	ND											,	,					,				,						
1	1 201	4 NAVY		1,423	-	1,423												Α -	-	-	-	-	-	-	-	-	-	-	-	-	1,423
	1 201	5 NAVY		734	-	734																		Α -	-	-	-	-	-	-	734
	1 201	6 NAVY		1,275	-	1,275																		Α -	-	-	-	-	-	-	1,275
1	1 201	6 NAVY		1,513	-	1,513																		Α -	-	-	-	-	-	-	1,513
							0 C T	N O V	D E C	J A	F E B	M A	A P R	M A	N N	n 1	A U G	S	0 C T	N O	D E	J A N	F E B	M A R	A P	M A	N N	J J	A U G	SE	B A

Ex	hibit	P-21, Pr	oduct	ion Sc	hedul	le: PE	3 201	6 Nav	/y														Date	: Fel	oruary	2015	5			
-		riation / 02 / 1	Budg	et Acti	vity /	Budg	get Si	ub Ac	tivity	:	1		Item 20 MN			Title:										Title Type)IC]:		
			lements in Each)								Fiscal Y	ear 2018											Fiscal Y	ear 2019						
				ACCEPT									C	alendar	Year 201	8								Caler	ndar Year	r 2019				
0 0	R	SERVICE	PROC QTY	PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
6.1	1) CA49	COMPLETE R	OUND																											
1	1 2014	NAVY	1,423	-	1,423	-	-	-	-	-	11	156	156	156	156	156	156	156	156	156	8									T -
	1 2015	NAVY	734	-	734	-	-	-	-	-	-	-	-	-	-	200	200	200	134											-
	1 2016	NAVY	1,275	-	1,275	-	-	-	-	-	-	-	-	-	-	300	300	300	300	75										-
1	1 2016	NAVY	1,513	-	1,513	-	-	-	-	-	-	-	-	-	-	200	200	200	200	200	200	200	113							-
·						0	N O	D E	J A	F E B	M	A P	M A	Ŋ	J U	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J J	n n	A U	S E	B

Exhibit P-21, Production Schedule: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
1508N / 02 / 1	1121 / 120 MM, All Types	1 / 120 MM, All Types

		Produc	ction Rates (Each	/ Year)				Procurement Lea	adtime (Months)			
MFF						Init	ial			Reo	rder	
Ref	1				ALT	ALT		Total	ALT	ALT		Total
#	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1
1	GENERAL DYNAMICS - ST PETERSBURG, FL	200	400	4,500	18	_	18	18	18	_	17	17

[&]quot;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 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).

LI 1121 - 120 MM, All Types Navy UNCLASSIFIED
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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1388 / CTG 25 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :		Program Ele	ments for Co	de 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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	10.034	1.887	-	-	-	-	-	3.285	-	-	-	15.206
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	10.034	1.887	-	-	-	-	-	3.285	-	-	-	15.206
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	10.034	1.887	-	-	-	-	-	3.285	-	-	-	15.206
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Tl	ne corresponding	g budget request	s are document	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

•	
The family of 25mm cartridges is fired from the M242 Automatic Cannon and consists of Armor	r 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	

UNCLASSIFIED LI 1388 - CTG 25 MM, All Types Navy

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1388 / CTG 25 MM, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pro	ogram	n 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) I (\$ M)							
1 / CTG 25 MM, All Types	P-5		- / 10.034	- / 1.887	- / -	- / -	- / -	- / -			
Total Gross/Weapon System Cost			- / 10.034	- / 1.887	- 1 -	- 1 -	- 1 -	- 1 -			

*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.

UNCLASSIFIED

							UI	NCLAS	SIFIED)								
Exhibit P-5, Cost	Analysis	s: PB 20	16 Navy											Date: F	ebruary 2	2015		
Appropriation / B 1508N / 02 / 1	udget A	ctivity /	Budget :	Sub Act	ivity:			Numbe 5 MM, A								Title [DO All Type:		
ID Code (A=Service Read	ly, B=Not Serv	ice Ready) :				'			M	DAP/MAIS	Code:							
F	Resource	Summa	ary		F	Prior Yea	ars	FY 20	014	FY	2015	FY	2016 Ba	se F	Y 2016	осо	FY 2016	o Total
Procurement Quantity (Uni	its in Each)						-		-		-			-		-		-
Gross/Weapon System Co	ost (\$ in Millior	is)					10.034		1.887		-			-		-		-
Less PY Advance Procure	ement (\$ in Mi	llions)					-		-		-			-		-		-
Net Procurement (P1) (\$ in	Millions)						10.034		1.887		-			-		-		-
Plus CY Advance Procure	ment (\$ in Mil	lions)					-		-		-			-		-		-
Total Obligation Authorit	y (\$ in Millions	s)					10.034		1.887		-			-		-		
(TI	he following l	Resource Su	ımmary rows	s are for info	rmational p	urposes only	. The corres	ponding bud	lget request	s are docume	ented elsew	here.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in I	Dollars)					-		-		-			-		-		
Note: Subtotals or Totals i	n this Evhibit	P-5 may no	at he exact of	r add, due to	rounding													
Tiole: Subtotals of Totals I		Prior Years	1	auu, uue it	FY 2014			FY 2015		FV	2016 Bas	٠	F	Y 2016 O	CO	F	Y 2016 Tot	 tal
			Total			Total	11-40-4		Total			Total			Total			Total
Cost Elements	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	(\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)
Hardware - A940, CTG, 25MM	M TPDS-T LIN	KED M910 Co	st								'				,	'		
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 C	UMULATIVE F	UNDING Cost	t														ı	
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	-	-	-	-	-	_	-	-	-	_	_	-	_	_	_

LI 1388 - CTG 25 MM, All Types Navy UNCLASSIFIED
Page 3 of 3



Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1468 / Grenades, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :					de 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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	43.162	4.510	6.218	1.390	-	1.390	0.989	0.311	0.317	0.322	-	57.219
Less PY Advance Procurement (\$ in Millions)	=	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	43.162	4.510	6.218	1.390	-	1.390	0.989	0.311	0.317	0.322	-	57.219
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	43.162	4.510	6.218	1.390	-	1.390	0.989	0.311	0.317	0.322	-	57.219
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•		<u>'</u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	=	-	-	-	-	-	-	-	-	-	-	-

Description:

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-ground signaling.

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.

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.

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.

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1468 / Grenades, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pro	gram	Elements for Code	B Items:	Ot	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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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 -	- / 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.

Justification:

FY 2016 Base Appropriation Reguest: \$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.

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.

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 malanonitrile (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.

OCO:

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

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).

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)

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LI 1468 - Grenades, All Types Navy

P-1 Line #22

							U	NCLAS	SIFIEL)								
Exhibit P-5, Cost	Analysis	: PB 20	16 Navy											Date: F	ebruary 2	2015		
Appropriation / B 1508N / 02 / 1	udget A	ctivity / I	Budget 9	Sub Act	ivity:		Line Item 3 / Grena								umber / 1 nades, Al		DIC]:	
ID Code (A=Service Read	ly, B=Not Servi	ce Ready) :				·			М	DAP/MAI	S Code:							
F	Resource	Summa	ary			Prior Ye	ars	FY 20	14	FY	2015	FY	2016 Bas	se l	FY 2016 (ОСО	FY 2016	6 Total
Procurement Quantity (Uni	its in Each)						-		-		-			-		-		-
Gross/Weapon System Co	ost (\$ in Million	s)					43.162		4.510		6.2	18		1.390		-		1.390
Less PY Advance Procure	ement (\$ in Mil	lions)					-		-		-			-		-		-
Net Procurement (P1) (\$ in	Millions)						43.162		4.510		6.2	18		1.390		-		1.390
Plus CY Advance Procure	ment (\$ in Mill	ions)					-		-		-			-		-		-
Total Obligation Authorit	t y (\$ in Millions	:)					43.162		4.510		6.2	18	•	1.390		-		1.390
(Th	he following F	Resource Su	ımmary rows	s are for info	ormational p	urposes onl	y. The corres	ponding bud	get request	s are docum	nented elsew	here.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in E	Dollars)					-		-		-			-		-		-
Note: Subtotals or Totals in	n this Exhibit	P-5 may no	t be exact o	r add, due to	o rounding.										1			
	P	rior Years	5		FY 2014			FY 2015		F`	Y 2016 Bas	se	F	Y 2016 O	СО	F	Y 2016 To	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - G940 GREN, HAN		. /	(' /	(+)	(====)	(+)	(+)	(====)	(+)	()	(====)	(+)	(+)	(====)	(+)	(+)	(====)	(+)
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 M201A1 ^(†)	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, HAN	ND SMOKE M1	8, YELLOW C	Cost															
Recurring Cost																		_
2.1.1) G945 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	20.00	20.004	0.700	00.50	40.400	0.454	20.00	40.404	4.500									
PACK (LAP)***	33.98	22,631	0.769	33.50	13,462	0.451	33.60	46,434	1.560	-	-	-	-	-	-	-	_	-

LI 1468 - Grenades, All Types Navy UNCLASSIFIED
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P-1 Line #22 **Volume 2 - 67**

Exhibit P-5, Cost Analysis: PB 2016 Navy Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 1508N / 02 / 1 1468 / Grenades, All Types 1 / Grenades, All Types MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total **Prior Years** Total Total Total Total Total Total **Unit Cost Unit Cost** Qtv Cost Qty Cost **Unit Cost** Qtv Cost **Unit Cost** Qtv Cost **Unit Cost** Qtv Cost **Unit Cost** Qtv Cost **Cost Elements** (Each) (\$) (Each) (\$ M) (\$) (\$ M) 2.1.2) G945 FUZE, HAND GREN M201A1^(†) 4.97 20,123 4.76 23,536 0.112 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 2.036 0.616 Hardware - G982 GREN, HAND SMOKE M83, WHITE Cost Recurring Cost 3.1.1) G982 LOAD, ASSÉMBLE, AND PACK (LAP)(†) 22,202 0.483 23.76 7,786 0.185 65,885 1.354 21.75 20.55 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

LI 1468 - Grenades, All Types Navv

UNCLASSIFIED Page 4 of 17

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Exhibit P-5, Cost					• • •	541								Date: Fe				
Appropriation / B 1508N / 02 / 1	uaget Ac	ctivity /	Budget	Sub Acti	vity:		Line Item I Grena							1 / Grena		Γ itle [DO [l Types	DIC]:	
ID Code (A=Service Read	ly, B=Not Servio	ce Ready) :							М	DAP/MAIS	Code:							
Note: Subtotals or Totals i	n this Exhibit	P-5 may no	t be exact o	r add, due to	rounding.													
	Р	rior Years	;		FY 2014			FY 2015	-	FY	′ 2016 Bas	se	F	Y 2016 OC	0	FY	2016 Tota	al
Cost Elements QUALIFICATION	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
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 CONT	ROL 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	R LAUNCH, AN	TI-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 SIMULATO	R SIGNAL & ILI	LUM WHITE	STAR Cost															_
Recurring Cost		-					1		1				1					
7.1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5 ^(†)	_	_	-	6.89	103,193	0.711	_	<u>-</u>	-	6.99	68,955	0.482	-	_	-	6.99	68,955	0.48
7.1.2) LA44 PRODUCT ENGINEERING	-	-	0.100	-	-	0.060	-	-	-	-	-	0.040	-	-	-	-	-	0.04
7.1.3) LA44 QUALITY ASSURANCE	-	-	_	-	-	0.006	-	-	-	-	-	0.002	-	_	-	-	-	0.002

LI 1468 - Grenades, All Types Navy UNCLASSIFIED
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P-1 Line #22 **Volume 2 - 69**

							U	NCLAS	SIFIEL)								
Exhibit P-5, Cost	Analysis	s: PB 20	16 Navy											Date: Fe	bruary 2	2015		
Appropriation / B 1508N / 02 / 1	udget A	ctivity /	Budget	Sub Acti	ivity:	I		n Numbe						Item Nu 1 / Grena		Title [DOI Types	DIC]:	
ID Code (A=Service Read	ly, B=Not Servi	ce Ready) :				-			М	DAP/MAIS	Code:							
Note: Subtotals or Totals i			t be exact o	r add, due to	rounding.													
		Prior Years			FY 2014			FY 2015		FY	/ 2016 Bas	e	F	Y 2016 OC	0	FY	2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
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 SIMULATO	R AIRBURST C	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 SIMULATO	R HOSTILE FIF	RE 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 SIMULATO	R AT GUIDED	MISSILE STIN	NGER 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

LI 1468 - Grenades, All Types Navy UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:
1468 / Grenades, All Types

Date: February 2015

Item Number / Title [DODIC]:
1 / Grenades, All Types

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

34.876

34.876

43.162

MDAP/MAIS Code:

	P	Prior Years	s		FY 2014			FY 2015		FY	′ 2016 Ba	se	FY	′ 2016 OC	0	FY	′ 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
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 Cumu	lative Funding	Cost																
Non Recurring Cost																		
11.1.1) Prior Years Cumulative Funding	-	-	34.876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring																		

6.218

4.510

Cost

Cost

Subtotal: Hardware - Prior Years Cumulative Funding

Gross/Weapon System

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#22

1.390

1.390

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2016 NavyDate: February 2015Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:Item Number / Title [DODIC]:1508N / 02 / 11 / Grenades, All Types1 / Grenades, All Types

1508N / 02 / 1				1468 / Grenades, Al	I Types			1 / Gren	iades, All	l ypes		
Cost Elements	0 C 0	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)	1	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	РО	ROCK ISLAND, IL	Mar 2015	Sep 2017	22,052	30.76	Y		Jan 2015
1.1.1) G940 LOAD, ASSEMBLE, AND PACK (LAP)	1	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	РО	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 ^(†)	1	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 ^(†)	1	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) ^(†)	1	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) ^(†)	1	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 ^(†)	1	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 ^(†)	1	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 ^(†)	1	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 ^(†)	1	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)	1	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	РО	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

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:
1468 / Grenades, All Types

Date: February 2015

Item Number / Title [DODIC]:
1 / Grenades, All Types

			') 0 0					. , , , ,	
Cost Elements	0 0	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?	RFP Issue Date
3.1.1) G982 LOAD, ASSEMBLE, AND PACK (LAP)	1	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	,	37,420	20.55		Jan 201
3.1.2) G982 FUZE, GREN HAND M201A1 ^(†)	1	2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C/FFP	ROCK ISLAND, IL	Mar 2014	Mar 2015	10,033	4.98	Y	Jan 201
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 201
3.1.2) G982 FUZE, GREN HAND M201A1 ^(†)	1	2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	25,240	5.55	Y	Feb 201
3.1.3) G982 GREN METAL PARTS SET ^(†)	1	2014	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	Mar 2014	Mar 2015	12,789	2.35	Y	Jan 201
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 201
3.1.3) G982 GREN METAL PARTS SET ^(†)	1	2015	TBD / TBD	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	27,894	1.90	Y	Feb 201
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 201
4.1.1) GG24 LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	1	2014	AMERICAN RHEINMETALL MUNITIONS / STAFFORD, VA	C / FFP	ROCK ISLAND, IL	May 2014	Nov 2015	3,639	190.43	Y	Mar 201
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 201
7.1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5 $^{(\dagger)}$		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	103,193	6.89	Y	Mar 201
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 201
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 201
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 201
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 201
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 201
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	Υ	Mar 201

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Exhibit P-5a, Procurement History and Planning: PB 2016	Navy	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
1508N / 02 / 1	1468 / Grenades, All Types	1 / Grenades, All Types

L					<u> </u>	71					71		
		0			Method/Type			Date			Specs		RFP
		C			or		Award	of First	Qtv	Unit Cost	Avail	Revision	Issue
	Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$)	Now?	Available	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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Exhib	it P-21, Pı	roducti	on Sc	hedul	le: Pl	B 201	6 Nav	/y														Date	: Feb	oruary	2015	5			
	opriation / N / 02 / 1	Budge	et Acti	vity /	Bud	get Sı	ub Ac	tivity	':			Item renad													Title	[DOD pes	DIC]:		
		Elements Thousands)							Fiscal Y	ear 2013											Fiscal Y	ear 2014						
	(00	- Troubarrub,	ACCEPT				_						Calendar	Year 201	13				_					ndar Yea	2014				
M O F C R O #	FY SERVICE	PROC	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	B A L
	940 FUZE, HAND			1001	ı	V	L	N	В	K	K	T	N		G	P	'	V	C	I N	ь	K	ĸ	T	N	L	G	Р	
	ars Deliveries: 25		7141																										-
	2015 NAVY	22.934	_	22.934		1																							22.93
	2015 NAVY	16.396	-	16.396																									16.39
	940 GREN META				l	1				1										I									
	ars Deliveries: 27																												
	2015 NAVY	25.360	-	25.360																									25.36
	2015 NAVY	28.947	-	28.947																									28.94
	945 LOAD, ASSE		PACK (LA					1		-										1									
	ars Deliveries: 220																												
√ 3 2	2014 NAVY	13.462	-	13.462																					Α -	-	-	-	13.462
3 2	2015 NAVY	20.750	-	20.750																									20.75
	2015 NAVY	25.684	-	25.684																									25.684
	945 FUZE, HAND	GREN M20)1A1			-1																							
Prior Yea	ars Deliveries: 23	536																											-
√ 4 2	2014 NAVY	20.123	-	20.123																					Α -	-	-	-	20.123
4 2	2015 NAVY	21.621	-	21.621																									21.62
√ 4 2	2015 NAVY	17.838	-	17.838																									17.838
2.1.3) GS	945 GREN META	L PARTS S	ET				1					1					l				ı				ı	lI	L		,
Prior Yea	ars Deliveries: 26	026																											
√ 5 2	014 NAVY	19.973	-	19.973																					Α -	-	-	-	19.97
6 2	015 NAVY	23.700	-	23.700																									23.70
√ 6 2	2015 NAVY	15.789	-	15.789																									15.789
3.1.2) G9	982 FUZE, GREN	HAND M20)1A1																1										
Prior Yea	ars Deliveries: 16	448																											
√ 7 2	2014 NAVY	10.033	-	10.033																		Α -	-	-	-	-	-	-	10.03
8 2	2015 NAVY	29.591	-	29.591																									29.59
√ 8 2	2015 NAVY	25.240	-	25.240																									25.24
3.1.3) G9	982 GREN META	L PARTS S	ET									•			•				•										
Prior Yea	ars Deliveries: 18	186																											
√ 9 2	2014 NAVY	12.789	-	12.789																		Α -	-	-	-	-	-	-	12.789
10 2	2015 NAVY	32.721	-	32.721																									32.72
√ 10 2	2015 NAVY	27.894	-	27.894																									27.894
, ,		•			0 C	N O	D E	J A	F E	M	A P	M A	Ŋ	Ŋ	A U	S E	O C	N O	D E	J A N	F E	M A	A P	M A	J	J	A U	S E	B A
					т	V	С	N	В	R	R	Y	N	L	G	P	Т	V	С	1	В	R	R	Y	N	L L	G	Р	L

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Exl	nibit F	P-21, Pro	oducti	on Sc	hedul	le: PE	3 201	6 Nav	'y														Date	: Feb	ruary	/ 2015	5			
Αp		iation /							-	:			Item renad													Title		DIC]:		
		Cost E (Units in 7	ements housands)								Fiscal Y	ear 2013											Fiscal Yea	ar 2014						
				ACCEPT									C	alendar	Year 201	3								Calend	dar Yea	r 2014				
O #	: }	SERVICE	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U	A U G	S E P	O C T	N O V	D E C	N V	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	B A L
	<u> </u>	OAD, ASSEN	IBLE, AND	PACK (L.	AP)																									
_	1 2013		12.680	-	12.680																				A -	-	-	-	-	12.68
	1 2014		3.639	-	3.639																				A -	-	-	-	-	3.63
	<u> </u>	MULATOR, S		M, WHITE														,	,										,	
_	2 2014	ļ	103.193	-	103.193																					Α -	-	-	-	103.1
	2 2016		68.955	-	68.955																									68.95
	<u></u>	MULATOR, A	NRBURST	GF 1.5																										
_	3 2014		45.804	-	45.804																					Α -	-	-	-	45.80
	3 2016		5.467	-	5.467																									5.46
	- ,	MULATOR, H		IRE GF 1.				T							ĭ			1	1									T	1	_
_	4 2014		98.611	-	98.611																					Α -	-	-	-	98.61
	4 2016		86.266	-	86.266																									86.26
_		SIMULATOR,		INGER 1.														1												
_	5 2014		23.138	-	23.138																					Α -	-	-	-	23.13
_ 1	5 2016	NAVY	6.538	-	6.538																									6.53
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	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	U J	A U G	S E P	A L

	it P-21, Pı	oaucti	on Sc	neaui	e: Pi	B 201	o man	/y														Date	е. ге	bruary	2015)			
	priation /	Budge	t Acti	vity /	Bud	get S	ub Ac	tivity	:			Item renac				:								nber /			DIC]:		
		Elements Thousands)					,	,		Fiscal Y	ear 2015	5										Fiscal Y	ear 201	6					T
			ACCEPT									(Calendar	Year 20	15								Cale	endar Yea	r 2016				
O F			PRIOR TO 1	BAL DUE	0	N	D	J	F	М	Α	М	J	J	А	s	0	N	D	J	F	М	А	м	J	J	Α	s	В
C R O # F	Y SERVICE	PROC QTY	OCT 2014	AS OF 1 OCT	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	S E P	O C T	o V	E	A N	E B	A R	P R	A Y	U N	U L	A U G	E P	A L
1.1.2) G94	40 FUZE, HAND	GREN M20	1A1																										
Prior Year	rs Deliveries: 252	220																											
1 20	015 NAVY	22.934	-	22.934								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.93
✓ 1 20	015 NAVY	16.396	-	16.396								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.39
1.1.3) G94	40 GREN META	L PARTS SE	ΕT																										
Prior Year	rs Deliveries: 278	394																											
2 20	015 NAVY	25.360	-	25.360								Α -	-	-	-	-	-	-	-	-	-	-	-	25.360					-
✓ 2 20	015 NAVY	28.947	-	28.947								Α -	-	-	-	-	-	-	-	-	-	-	-	28.947					-
2.1.1) G94	45 LOAD, ASSE	MBLE, AND	PACK (L/	AP)																									
Prior Year	rs Deliveries: 226	631																											
✓ 3 20	014 NAVY	13.462	-	13.462	-	-	-	-	-	-	-	-	-	-	-	13.462													-
3 20	015 NAVY	20.750	-	20.750						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.740	1.720	1.730	1.730	13.83
✓ 3 20	015 NAVY	25.684	-	25.684						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	2.500	2.500	2.500	16.18
2.1.2) G94	45 FUZE, HAND	GREN M20	1A1																										
Prior Year	rs Deliveries: 23	536																											
√ 4 20	014 NAVY	20.123	-	20.123	-	-	-	-	-	-	-	-	20.123																-
4 20	015 NAVY	21.621	-	21.621								Α -	-	-	-	-	-	-	-	-	-	-	-	20.000	1.621				-
	015 NAVY	17.838	-	17.838								Α -	-	-	-	-	-	-	-	-	-	-	-	17.838					-
2.1.3) G94	45 GREN META	L PARTS SE	ΕT																										
Prior Year	rs Deliveries: 260	026					i.	-																					
√ 5 20	014 NAVY	19.973	-	19.973	-	-	-	-	-	-	-	-	19.973																-
6 20	015 NAVY	23.700	-	23.700								Α -	-	-	-	-	-	-	-	-	-	-	-	23.700]				-
	015 NAVY	15.789	-	15.789								Α -	-	-	-	-	-	-	-	-	-	-	-	15.789					-
3.1.2) G98	82 FUZE, GREN	HAND M20	1A1																										
Prior Year	rs Deliveries: 164											_																	
√ 7 20	014 NAVY	10.033	-	10.033	-	-	-	-	-	10.033															,				-
8 20	015 NAVY	29.591	-	29.591								Α -	-	-	-	-	-	-	-	-	-	-	-	29.591					-
√ 8 20	015 NAVY	25.240	-	25.240								Α -	-	-	-	-	-	-	-	-	-	-	-	25.240					-
3.1.3) G98	82 GREN META	L PARTS SE	ΕT																										
Prior Year	rs Deliveries: 18	186					,	,				,																	
	014 NAVY	12.789	-	12.789	-	-	-	-	-	12.789			1				1								1				-
10 20	015 NAVY	32.721	-	32.721								Α -	-	-	-	-	-	-	-	-	-	-	-	32.721					-
√ 10 20	015 NAVY	27.894	-	27.894								Α -	-	-	-	-	-	-	-	-	-	-	-	27.894	<u> </u>				-
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J 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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Ex	chibit	P-21, Pro	oducti	on Sc	hedul	e: PE	3 201	6 Nav	/y														Date	: Feb	oruary	/ 2015	5			
-	oprop 508N /	riation / 1 02 / 1	Budge	et Acti	vity /	Budg	get S	ub Ac	tivity	:		_	Item enade	-												/ Title All Tyl		DIC]:		
		Cost E (Units in 7	lements housands)							Fiscal Y	ear 2015											Fiscal Ye	ear 2016						
0 0 0	R	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	Year 201 J U L	5 A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	Calen A P R	M A Y	J U N	J U	A U G	S E P	B A L
4.1	l.1) GG24	LOAD, ASSEN																								1				
	11 2013	NAVY	12.680	-	12.680	-	-	6.272	-	-	6.408																			
1	11 2014	NAVY	3.639	-	3.639	-	-	-	-	-	-	-	-	-	-	-	-	-	3.639											
7.1	.1) LA44	SIMULATOR, S	SIG & ILLU	M, WHITE	STAR G	F 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																					Α -	-	-	-	68.9
8.1	.1) LA45	SIMULATOR, A	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																					Α -	-	-	-	5.4
9.1	.1) LA46	SIMULATOR, H	HOSTILE F	IRE 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																					Α -	-	-	-	86.2
10.	.1.1) LA47	SIMULATOR,	AT GM S	ΓINGER 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																					Α -	-	-	-	6.5
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U U	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 L	A U G	S E P	B A L

LI 1468 - Grenades, All Types Navy

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Volume 2 - 78 P-1 Line #22

Exhibit P-21, P	roducti	on Sc	hedul	le: PB	2016	3 Nav	У														Date	e: Feb	oruary	2015	5			
Appropriation 1508N / 02 / 1	Budge	et Acti	vity /	Budg	et Su	ıb Ac	tivity	':					nber /									Nun Grena				DIC]:		
	Elements Thousands)							Fiscal Y	ear 2017											Fiscal Y	ear 2018						T
(0	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ACCEPT										Calenda	r Year 20	17				-					ndar Year	2018				+
M		PRIOR	BAL	_ [_	_		I							_				_					_		_	+
O F C R SERVICE	PROC QTY	TO 1 OCT 2016	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	n n	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	N N	U L	A U G	S E P	A L
1.1.2) G940 FUZE, HANI	GREN M20)1A1						1	-										-									
Prior Years Deliveries: 25	220																											
1 2015 NAVY	22.934	-	22.934	-	-	-	-	-	22.934																			-
✓ 1 2015 NAVY	16.396	-	16.396	-	-	-	-	-	16.396																			-
1.1.3) G940 GREN META	L PARTS S	ET			,				•																			
Prior Years Deliveries: 27	894																											
2 2015 NAVY	25.360	25.360	-																									-
✓ 2 2015 NAVY	28.947	28.947	-																									-
2.1.1) G945 LOAD, ASSI	MBLE, AND	PACK (LA	AP)																									
Prior Years Deliveries: 22	631																											
✓ 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, HANI	GREN M20)1A1					,			,																		
Prior Years Deliveries: 23	536																											_
✓ 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 META	L PARTS S	ET																										
Prior Years Deliveries: 26	026																											
✓ 5 2014 NAVY	19.973	19.973	-																									1 -
6 2015 NAVY	23.700	23.700	-																									-
✓ 6 2015 NAVY	15.789	15.789	-																									-
3.1.2) G982 FUZE, GRE	N HAND M20)1A1																										
Prior Years Deliveries: 16	448																											
✓ 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 META	L PARTS S	ET																										-
Prior Years Deliveries: 18	186																											
✓ 9 2014 NAVY	12.789	12.789	-																									-
10 2015 NAVY	32.721	32.721	-																									-
✓ 10 2015 NAVY	27.894	27.894	-																									-
	1	•		0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	В
				C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	A L

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P-1 Line #22 **Volume 2 - 79**

Septembria Sudget Activity Budget Sub Activity: 1468 Grenades, All Types 1 Grenade	Ξx	hibit	P-21, Pro	ducti	on Sc	hedul	e: PE	3 201	6 Nav	у														Date	e: Fel	oruary	2015	5			
Variety Vari	-			Budge	t Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:)IC]:		
M)							Fiscal \	ear 2017											Fiscal Y	ear 2018						
1.1 GG24 LOAD, ASSEMBLE, AND PACK (LAP) 11 2013 NAVY 12.680 12.680 - 17 2014 NAVY 3.639 3.639 - 18 2014 NAVY 103.193 103.193 - 19 2016 NAVY 68.955 - 68.955 - - - - - - 10 2014 NAVY 45.004 45.804 - 10 2014 NAVY 45.804 45.804 - 10 2014 NAVY 45.804 45.804 - 10 2014 NAVY 45.804 45.804 - 11 2016 NAVY 45.804 45.804 - 12 2016 NAVY 45.804 45.804 - 13 2016 NAVY 45.804 45.804 - 14 2016 NAVY 98.611 98.611 - 14 2016 NAVY 86.266 - 86.266 - - - - - - - 8.000 8.00	0	F R	SERVICE	PROC	PRIOR TO 1 OCT	DUE AS OF	C	0	E	Α	E	Α	P	M A	J	J	A U	E	С	0	E	Ä	E	A	A P	M A	J	Ü	U	E	
11 2014 NAVY 3.639 3.639 - 1.1.) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5 12 2014 NAVY 103.193 103.193 - 12 2016 NAVY 86.955 - 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 1.1.) LA45 SIMULATOR, AIRBURST GF 1.5 13 2016 NAVY 45.804 45.804 -	_						•	<u> </u>				"	"	•		_			•	• 1		.,						_			
1.1) LA44 SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5 12 2014 NAVY 103.193 103.193 -		11 2013	NAVY	12.680	12.680	-																									Τ
12 2014 NAVY 103.193 103.193 - 12 2016 NAVY 68.955 - 68.955 - 68.955		11 2014	NAVY	3.639	3.639	-																									
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 2.955 1.1) LA45 SIMULATOR, AIRBURST GF 1.5 13 2014 NAVY 45.804 45.804 - 2.000 2.000 1.467 1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5 14 2014 NAVY 98.611 98.611 - 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 6.000	_					STAR G	F 1.5																								
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 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	+				103.193										1												1				L
13 2014 NAVY 45.804 45.804 -	L				-	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					
13 2016 NAVY 5.467 - 5.467 2.000 2.000 1.467 1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5 14 2014 NAVY 98.611 98.611 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 6.266 0.1.1) LA47 SIMULATOR, AT GM STINGER 1.5 15 2014 NAVY 23.138 23.138 3.000 3.000 5.38 1 2016 NAVY 6.538 - 6.538 3.000 3.000 5.38 1 3 2016 NAVY 6.538 - 6.538 3.000 3.000 5.38	_		-																												_
1.1.1) LA46 SIMULATOR, HOSTILE FIRE GF 1.5 14 2014 NAVY 98.611 98.611 - 14 2016 NAVY 86.266 - 86.266 - - - - - - - - 8.000	-				45.804							1																			-
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 6.266 0.1.1) 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 5.38 ONUMBER 1.5 O	_				-			-	-	-		-	-	-	2.000	2.000	1.467														┸
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 0.1.1) LA47 SIMULATOR, AT GM STINGER 1.5 15 2014 NAVY 23.138 23.138 3.000 3.000 3.000 5.38 Value V																															_
10.1.1 LA47 SIMULATOR, AT GM STINGER 1.5	\rightarrow				96.611							1	T		9 000	9 000	9 000	9 000	9 000	9 000	9 000	9 000	9 000	9 000	6 266	1					H
15 2014 NAVY 23.138 23.138 -					INGER 1										0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.200						
15 2016 NAVY 6.538 - 6.538 3.000 3.000 .538 O N D J F M A M J J A S O N D J F M A M J J A S															-				-												\top
	\rightarrow				-	6.538	-	-	-	-	-	-	-	-	3.000	3.000	.538														\vdash
			-				C	0	E	Α	E	Α	P	Α		U	U	E	С	0	E			Α	P	Α		Ü	U	E	

LI 1468 - Grenades, All Types Navy

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Exhibit P-21, Production Schedule: PB 2016 Navy **Date:** February 2015 Item Number / Title [DODIC]: Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 1468 / Grenades, All Types 1 / Grenades, All Types 1508N / 02 / 1

		ı			1007 0101144	, , , ,						
		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reoi	rder	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	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	2′
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

[&]quot;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:

P-1 Line Item Number / Title:

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

1471 / Rockets, All Types

Marine Corps 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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	110.512	-	20.495	14.967	3.993	18.960	9.904	36.968	10.265	10.447	-	217.551
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	110.512	-	20.495	14.967	3.993	18.960	9.904	36.968	10.265	10.447	-	217.551
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	110.512	-	20.495	14.967	3.993	18.960	9.904	36.968	10.265	10.447	-	217.551
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)			·	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The family of shoulder fired rockets provide lightweight, single shot, disposable weapons mainly employed against and optimized to defeat light armored vehicles and other hard targets at close combat ranges. They can be employed from an enclosure or the open battle field as assault weapons against bunkers, field fortifications, structures and other hard-point positions. Each shoulder fired rocket family has a training launcher and sub-caliber practice rocket that fully simulates firing. This includes items such as:

The 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.

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.

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.

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.

LI 1471 - Rockets, All Types

Navy

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1471 / Rockets, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A			Elements for Code	B Items:	Ot	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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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	- 1 -	- / 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) Reguest: \$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).

LI 1471 - Rockets, All Types Navy

							UI	NCLAS	SIFIED)								
Exhibit P-5, Cost	Analysis	s: PB 20	16 Navy	,										Date: F	ebruary 2	2015		
Appropriation / E 1508N / 02 / 1	Budget A	ctivity / I	Budget	Sub Act	ivity:		Line Item 1 / Rocke								umber / T kets, All T		DIC]:	
ID Code (A=Service Read	dy, B=Not Serv	ice Ready) :				,			М	DAP/MAIS	Code:		,					
ı	Resource	Summa	ary			Prior Ye	ears	FY 20	14	FY	2015	FY	2016 Ba	se F	Y 2016 C	осо	FY 2016	Total
Procurement Quantity (Un							-		-		_			-		-		
Gross/Weapon System C		is)					110.512		-		20.49	5	1	4.967		3.993		18.960
Less PY Advance Procure	ement (\$ in Mi	llions)					-		-		-			-		-		-
Net Procurement (P1) (\$ ii	n Millions)						110.512		-		20.49	5	1	4.967		3.993		18.960
Plus CY Advance Procure	ement (\$ in Mil	lions)					-		-		-			-		-		-
Total Obligation Authori	ty (\$ in Millions	s)					110.512		-		20.49	5	1	4.967		3.993		18.960
(T	he following i	Resource Su	ımmary row	s are for info	rmational p	urposes on	ly. The corres	ponding bud	get request	s are docum	ented elsewh	ere.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System U	nit Cost (\$ in I	Dollars)					-		-		-			-				-
Note: Subtotals or Totals	in this Exhibit	P-5 may no	t be exact o	or add, due to	rounding.											T		
	F	Prior Years	;		FY 2014			FY 2015		FY	2016 Base	9	F	Y 2016 O	СО	F	Y 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - C995 Rocket, 84l	(' '	` ′	(\$ IVI)	(\$)	(Eacii)	(\$ IVI)	(0)	(Eacil)	(\$ IVI)	(9)	(Eacil)	(\$ IVI)	(\$)	(Eacri)	(\$ IVI)	(\$)	(Eacii)	(\$ 101)
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, 66	MM HE M72A7	W/ GRAZE C	ost												•			
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 P	RACTICE Cos	t															
Recurring Cost																		

LI 1471 - Rockets, All Types Navy

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.

	F	Prior Years	3		FY 2014			FY 2015		F۱	/ 2016 Bas	se	FY	/ 2016 OC	0	F	/ 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
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	18.45
4.1.2) HX07, PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	0.531	-	-	0.503	-	-	0.001	-	-	0.50
Subtotal: Recurring Cost	-	-	28.447	-	-	-	-	-	17.386	-	-	14.967	-	-	3.993	-	-	18.96
Subtotal: Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost	-	-	28.447	-	-	-	-	-	17.386	-	-	14.967	-	-	3.993	-	-	18.96
Hardware - Cumulative PY Fu	inding Cost				•	•				· · · · · · · · · · · · · · · · · · ·				· · ·		•		
Non Recurring Cost																		
5.1.1) Cumulative PY Funding	-	-	10.456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Subtotal: Non Recurring Cost	-	-	10.456	-	-	-	-	-	-	-	-	-	-	-	_	-	-	_
Subtotal: Hardware - Cumulative PY Funding Cost	-	-	10.456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Gross/Weapon System Cost	-	-	110.512	-	-	-	-	-	20.495	-	-	14.967	-	-	3.993	-	-	18.96

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

LI 1471 - Rockets, All Types Navy

Exhibit P-5a, Procurement History and Planning: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:
1471 / Rockets, All Types

Date: February 2015

Item Number / Title [DODIC]:
1 / Rockets, All Types

Cost Elements	0 0	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 ^(†)	1	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 ^(†)	1	2013	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	1,079	2,827.30	Υ		May 2014
2.1.1) HA29 COMPLETE ROUND ^(†)	1	2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	532	2,931.33	Υ		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 ^(†)	1	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 ^(†)	1	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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Арр	ropi	P- 21, Pro riation / 02 / 1								':			Item ockets										Item	e: Fel 1 Nun Rocke	ber /	Title	[DOI	DIC]:		
			lements in Each)								Fiscal Y	ear 2015	1										Fiscal Y	ear 2016						
				ACCEPT									С	alendar	Year 201	5								Caler	ndar Yea	r 2016				
O F C R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J 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	J U L	A U G	S E P	B A L
1.1.1)		COMPLETE R										1																		
Prior Y	ears D	eliveries: 1379	9																											
√ 1	2015	NAVY	414	-	414									Α -	-	-	-	-	-	414										-
2.1.1)	HA29 (COMPLETE R	OUND																											
Prior Y	ears D	eliveries: 2632	27																											
		NAVY	1,079	-	1,079								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,07
✓ 2	2015	NAVY	532	-	532								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
		COMPLETE R						1	_				, ,		1				1				1	1				1		
		NAVY	5,131	-	5,131								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,13
3		NAVY	2,278	-	2,278								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,27
√ 3		NAVY	838	-	838								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83
3		NAVY	2,674	-	2,674																		Α -	-	-	-	-	-	-	2,67
√ 3	2016	NAVY	738	-	738	_		_									_						Α -	-	-	-	-	-	-	73
						O C T	N O V	D E C	J A N	F E B	M A R	P R	M A Y	N N	n n	U G	S E P	O C T	N O V	E C	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U G	S E P	B A L

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Exhi	bit P)-21, Pro	oducti	on Sc	hedul	le: PE	3 2010	6 Nav	/y														Date	: Feb	ruary	2015	5			
Арр	ropri	iation / 1								:			Item ockets						_				Item 1 / R				[DOD	IC]:		
			lements in Each)								Fiscal Y	ear 2017											Fiscal Ye	ar 2018						
м				ACCEPT PRIOR	BAL			1					С	alendar	Year 201	7								Calend	dar Year	2018				
O F C R O #	FY	SERVICE	PROC QTY	TO 1 OCT 2016	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J 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
1.1.1)	C995 C0	OMPLETE RO	DUND				l				1																			
Prior Y	ears De	liveries: 1379)																											
√ 1	2015	NAVY	414	414	-																									-
2.1.1)	HA29 C	OMPLETE R	OUND																											
Prior Y	ears De	liveries: 2632	27																											
	2013		1,079	-	1,079	-	-	-	-	-	-	-	200	200	200	200	200	79												-
	2015		532	-	532	-	-	-	-	-	-	-	200	200	132															-
		OMPLETE R						,																						
	2013		5,131	-	5,131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,308	1,308	1,308	1,207							
	2015		2,278	-	2,278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	614	614	614	436							-
	2015		838	-	838	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150	150	150	150	88					-
	2016		2,674	-	2,674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	558	558	558	1,00
√ 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	U U	n n	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	U U	U L	A U G	S E P	A L

											U١		ASS	FIE)													
Exhibit P-21, F	Product	ion Sc	hedul	e: PB	2016	6 Nav	/y														Date	: Feb	oruar	y 201	5			
Appropriation 1508N / 02 / 1								:		I Line 71 / R														/ Title II Type		DIC]:		
	t Elements its in Each)								Fiscal \	Year 2019	9										Fiscal Y	ear 2020	,					
		ACCEPT										Calenda	r Year 20	19									ndar Yea	ar 2020				+
M	PROC E QTY	PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	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
1.1.1) C995 COMPLETI				•	•				"				_												_		•	
Prior Years Deliveries:																												
/ 1 2015 NAVY	414	414	-																									٦.
2.1.1) HA29 COMPLET	ROUND																											
Prior Years Deliveries: 2	6327																											
/ 2 2013 NAVY	1,079	1,079	-																									
/ 2 2015 NAVY	532	532	-																									
4.1.1) HX07 COMPLET	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		-	558	442																							
/ 3 2016 NAVY	738	738	-																								1	<u> </u>
				O C T	N O V	D E C	J A N	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	U U	J U L	A U G	S E P	A L

LI 1471 - Rockets, All Types Navy

Exhibit P-21, Production Schedule: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Item Number / Title [DODIC]:
1471 / Rockets, All Types

1 / Rockets, All Types

		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)		-	
MFR						Init	ial			Reo	rder	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	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
	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

[&]quot;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 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).

LI 1471 - Rockets, All Types

Navy

P



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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1473 / Artillery, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready):	Α		Program Ele	ments for Co	de B Items:			Other Relate	d Program El	ements:		
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	353.265	1.035	42.357	45.219	67.200	112.419	55.384	61.251	67.394	115.888	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Navy

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.

UNCLASSIFIED LI 1473 - Artillery, All Types Page 1 of 20

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Volume 2 - 94

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1473 / Artillery, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pro	ogram	Elements for Code	B Items:	Oti	ner Related Program I	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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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.

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.

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).

FY2014 Base Appropriation: \$.065M.

These funds supported First Destination Transportation Charges.

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).

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).

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).

LI 1473 - Artillery, All Types

Navy

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P-1 Line #24

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Aggregated Items Title:
1473 / Artillery, All Types

Artillery, All Types

130011 / 02 / 1							'	4/3//	unery, A	Types					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	tillely, A	ui iype	3		
Note: Subtotals or Tota	ls in	this Ex	hibit P-40a m	nay not be	exact or add	d, due to rou	nding.													
				Prior Years			FY 2014			FY 2015		ı	FY 2016 Base	9	F	Y 2016 OCO)	F	Y 2016 Tota	ıl
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost
1) B550, CTG, 40MM BLA	NK S	ALUTIN	G SNGL RD										l.							
1.1) B550 LOAD, ASSEMBLY, PACK (LAP) ^(†)	Α		-	-	_	44.79	7,278	0.326	_	-	_	-	_	_	-	_	_	_	_	-
1.2) CTG CASE MK3	Α		-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) PRIMER PERCUSSION	Α																			
MK22-2 ^(†)			-	-	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	Α		_	_	_	_	_	0.009	_	-	_	_	_	_	_	_	_	_	_	
1.8) GOVERNMENT FURNISHED MATERIAL-B550	Α		-	_	0.001	_	-	-	_	_	-	_	-	_	_	-	_	_	_	_
Subtotal: 1) B550, CTG, 40MM BLANK SALUTING SNGL RD			-	_	0.003	_	-	0.397	_	-	_	-	-	-	_	-	-	-	-	_
2) C025, CTG, 75MM BLA	NK M	337A2			ļ.															
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	Α		_	_	-	-	_	0.001	_	_	_	_	_	_	_	_		_		
2.4) GOVERNMENT FURNISHED MATERIAL-C025	Α		-	-	0.001	_	-	-	_	_	_	_	_	_	_	_	_	_		_
2.5) BLACK POWDER CLASS 1	Α		-	-	0.001	-	-	_	-	-	_	-	-	_	_	-	-	-		_
Subtotal: 2) C025, CTG, 75MM BLANK M337A2			-	-	0.036	-	-	0.316	-	-	_	_	-	_	-	-	-	_	_	-
3) D505, PROJ, 155MM, M	1485 <i>A</i>	2, ILLU	M		1								I.							
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ^{(1)(†)}	А		-	-	-	-	-	-	290.49	3,738	1.086	-	-	-	-	-	-	-	-	_

LI 1473 - Artillery, All Types Navy UNCLASSIFIED
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P-1 Line #24 Volume 2 - 95

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

				Prior Years			FY 2014			FY 2015		F	FY 2016 Base	•	F	Y 2016 OCO)	F	Y 2016 Tota	ı
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Tota Cos
3.2) DOWNLOAD, CLEAN AND INSPECT ^(†)	А		-	-	-	-	-	-	98.34	3,924	0.386	-	-	-	-	-	-	-	-	
3.3) D505 METAL PARTS SETS ^(†)	Α		-	-	-	-	-	-	322.51	3,737	1.205	-	-	-	-	-	-	-	-	
3.4) D505 ILLUM CANNISTER, 155MM ^(†)	А		-	-	-	-	-	-	379.76	3,812	1.448	-	-	-	-	-	-	-	-	
3.5) D505 CANISTER MPTS ASSY, 155MM ILLUM ^(†)	Α		-	-	-	-	-	-	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,	Α		-			-			10.20	3,012	0.002				-					
3.9) D505 PARACHUTE MAIN SUPPORTS, 155MM	A		-	-	-	-	-	-	46.38	3,812	0.177	-	-	-	-	-	-	-	-	
ILUM ^(†)			-	-	-	-	-	-	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 ^(†)	Α		_			_			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	-	-	-	-	-	-	-	-	
btotal: 3) D505, PROJ, 5MM, M485A2, ILLUM			-	_	0.000	-	_	_	_	_	5.182	_	_	_	_	_	_	_	_	

LI 1473 - Artillery, All Types Navy UNCLASSIFIED

Volume 2 - 96

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

Artillery, All Types

								-	Пурсз					I	unci y, A	٠,			
ls in	this Ex	nibit P-40a r	nay not be e	xact or ad	d, due to rou	nding.													
						FY 2014			FY 2015		ı	FY 2016 Base	e	F	Y 2016 OCO	ı	F	Y 2016 Tota	ıl
ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
795 H	IE (DA5	4)											,						
A		-	-	94.246	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
А		104.34	185.670	19.372	-	_	_	_	-	-	_	_	_	_	-	_	_	_	-
		-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231, N	IOD AR	TY CHG SYS												<u> </u>					
A																			
		16.30	375,706	6.124	-	-	-	16.32	47,181	0.770	-	-	-	-	-	-	-	-	-
		39.03	96,779	3.777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A		13.58	22,977	0.312	-	-	-	14.75	4,000	0.059	-	-	-	-	-	-	_	-	-
А		8 74	1 384 457	12 107	_	_	_	8 35	168 023	1 403	_	_	_	_	_	_	_	_	_
A		8.93	24,744	0.221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
А		33.38	387,132	12.923	-	-	-	41.00	48,585	1.992	-	-	-	-	-	-	-	-	-
А		-	-	-	-	-	-	-	-	0.874	-	-	-	-	-	-	-	-	-
А		-	-	_	-	_	_	-		0.084	-	-	_	-	-	_	-	_	-
		-	-	35.464	-	-	-	-	-	5.182	-	-	-	-	-	-	-	-	-
232A1	I, MOD	ARTY CHG S	YS												······································				
Α																			
		18.94	313,390	5.935	-	-	-	18.54	28,802	0.534	-	-	-	-	-	-	-	-	-
A		8.91	19,873	0.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
A		24.62	226 225	14 205				41.00	20.650	4 246									
2	ID CD 795 H A A A A A A A A A A A A A A A A A A	ID MDAP/ MAIS CODE 795 HE (DA5 A	ID MDAP/ MAIS Code (\$) 795 HE (DA54) A	ID	ID MAIS Code Cost Co	NDAP Code Code	NDAP MAIS Code	Name	Name	Name	Name	Note Note	No	Name	Name	Paris	March Marc	Marke Mark	Part

LI 1473 - Artillery, All Types Navy UNCLASSIFIED
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P-1 Line #24 Volume 2 - 97

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

1473 / Artillery, All Types

Note: Subtotals or Total	13 111	uno EX			SAGUL UI AUL	1, due 10 10u									-					
				Prior Years			FY 2014			FY 2015		F	FY 2016 Base	•	F	FY 2016 OCC)	F	Y 2016 Tota	I
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	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) ^(†)	Α		13.72	19,389	0.266	-	-	-	14.75	2,508	0.037	-	-	-	-	-	-	-	-	-
6.5) DA13 PROPELLANT M31A2 ^(†)	Α			4.547.005	24.242				40.04	440.007	0.405									
6.6) DA13 CONTAINER	Α		14.46	1,517,825	21.943	-	-	-	16.91	143,997	2.435	-	-	-	-	-	-	-	-	-
M232A1 ^(†)			41.71	58,134	2.425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.7) DA13 PRODUCTION ENGINEERING			-	-	2.071	-	-	-	-	-	1.105	-	-	-	-	-	_	-	-	-
6.8) DA13 ACCEPTANCE TESTING			-	-	0.573	-	-	-	-	-	0.055	-	-	-	-	-	-	-	-	-
Subtotal: 6) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS			-	-	44.685	-	-	-	-	-	5.382	_	-	_	-	-	_	-	_	_
7) DA23, CHG, 155MM, M	231 N	IOD AR	TY CHG SYS I	DUMMY																
7.1) DA23 COMPLETE	Α																			
ROUND ^(†) Subtotal: 7) DA23, CHG, 155MM, M231 MOD			200.00	155	0.031	200.00	575	0.115	-	-	-	-	-	-	-	-	-	-	-	-
ARTY CHG SYS DUMMY			-	-	0.031	-	-	0.115	-	-	-	-	-	-	-	-	-	-	-	-
8) DA24, CHG, 155MM, M	232A	1 MOD A	RTY CHG SY	'S DUMMY						,										
8.1) DA24 COMPLETE ROUND ^(†)	Α		200.00	190	0.038	200.00	710	0.142	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal: 8) DA24, CHG, 155MM, M232A1 MOD			200.00	100		200.00	710													
ARTY CHG SYS DUMMY			-	-	0.038	-	-	0.142	-	-	-	-	-	-	-	-	-	-	-	-
9) DA49, 155MM, IR ILLUI				1						1					-		1			
9.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^{(2)(†)}	Α		263.43	2,661	0.701	-	-	-	290.49	5,454	1.585	-	-	-	-	-	-	_	-	-
9.2) DOWNLOAD, CLEAN AND INSPECT, M483	Α																			
PROJECTILE ^(†)			-	-	-	-	-	-	98.34	5,727	0.563	-	-	-	-	-	-	-	-	-
9.3) M10 EXPULSION CHARGE ASSY ^(†)	Α		-	-	-	-	-	-	16.28	5,563	0.091	-	-	-	-	-	-	-	-	-

LI 1473 - Artillery, All Types Navy

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Volume 2 - 98 P-1 Line #24

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

				Prior Years		d, due to rou	FY 2014			FY 2015		F	Y 2016 Base	.	F	Y 2016 OCO		F	Y 2016 Tota	
				11101 10413	Total		112014	Total		1 1 2013	Total	•	1 2010 Dase	Total		1 2010 000	Total	 	1 2010 1014	Total
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)
9.4) DA49 METAL PARTS SET ^(†)	Α		-	-	-	-	-	-	322.51	5,454	1.759	-	-	-	-	-	-	-	-	-
9.5) DA49 IR ILLUM CANISTER, 155MM ^(†)	Α		326.23	2,768	0.903	_	_	_	379.76	5,563	2.112	_	_	_	_	_	_	_	_	
9.6) DA49 PARACHUTE, MAIN ^(†)	А		34.41	2,703	0.093	_			46.38	5,563	0.258	_		_	_	_		_		
9.7) DA49 DELAY ELEMENT ^(†)	Α		30.00	2,733	0.082	-			32.42	5,563	0.181				-	<u>-</u>		_		
9.8) DA49 CANISTER, MPTS ASSY ^(†)	Α		53.99	2,741	0.148	-	_		58.49	5,563	0.325	-	_	_	_	_	_	_	_	
9.9) DA49 PARACHUTE, MAIN SUPPORTS ^(†)	Α		2.96	10,811	0.032	_			3.12	22,252	0.070				-					
9.10) DA49 PARACHUTE, DROGUE ASSY ^(†)	Α		16.70	2,754	0.032	_			20.29	5,563	0.070				_					
9.11) DA49 CANISTER, BASE ASSY ^(†)	Α		17.15	2,741	0.047	_			18.30	5,563	0.101				_	_		_		
9.12) DA49 WOOD PALLET (HEAT TREATED) ^(†)	Α		-	-	- 0.047	_			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, 55MM, IR ILLUM			-	-	2.172	-	-	-	-	-	7.380	-	-	-	-	-	-	-	-	
0) FIRST DESTINATION	TRAN	ISPORT	ATION																	
10.1) First Destination Transportation			-	-	1.080	-	-	0.065	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 10) FIRST DESTINATION TRANSPORTATION			-	-	1.080	-	-	0.065	-	-	-	-	-	-	-	-	_	-	-	
1) DA54 155MM HE M795	W/II	ИX																		
11.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ^(†)	Α		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.

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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:

P-1 Line Item Number / Title:

Aggregated Items Title: Artillery, All Types

1508N / 02 / 1 1473 / Artillery, All Types Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base** FY 2016 OCO FY 2016 Total Total Total Total Total Total Total MDAP **Unit Cost Unit Cost** Item Number / ID MAIS **Unit Cost** Qty Cost Qty Cost **Unit Cost** Qty Cost Qty Cost **Unit Cost** Qty Cost Unit Cost Qty Cost Title [DODIC] CD Code (\$) (Each) (\$ M) 11.2) DA54 METAL PARTS-M795^(†) 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) 0.001 11.4) DA54 PLUG. LIFTING, MELTABLE FOR IM(†) 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^(†) 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(†) 96.02 10,050 0.965 89.62 2,169 0.194 3,025 0.276 91.40 5,310 0.485 91.40 8,335 0.761 11.7) DA54 EXPLOSIVE FILL IMX-101 (3)(†) 12.65 2,551,329 32.274 553.740 11.650 22.05 768.820 16.952 1,347,951 29.722 2,116,771 46.674 21.04 22.05 22.05 11.8) DA54 Α **EXPLOSIVE FILL** IMX-104^(†) 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) GOVÉRNMENT **FURNISHED** MATERIAL 0.150 11.12) INSENSITIVE MUNITIONS 0.001 Subtotal: 11) DA54 155MM HE M795 W/IMX 98.600 19.231 45.219 67.200 112.419 13) PRIOR YEARS CUMULATIVE FUNDING 13.1) PRIOR YEARS CUMULATIVE **FUNDING** 57.538 Subtotal: 13) PRIOR YEARS CUMULATIVE **FUNDING** 57.538 Total 353.265 1.035 42.357 45.219 67.200 112.419

LI 1473 - Artillery, All Types Navy UNCLASSIFIED Page 8 of 20

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Exhibit P-40a, Budget Item Justification For Aggregated Ite	ms: 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
(+)	,	

(†) indicates the presence of a P-5a

Footnotes:

- (1) **The replacement DODIC for this item is DA57.
- (2) Replacement DODIC for this item is DA56.
- (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.

LI 1473 - Artillery, All Types Navy

P-1 Line #24 Volume 2 - 101

Exhibit P-5a, Procurement History and Planning: PB 2016	lavy		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		
0	Method/Type	Date	Specs	Date	RFP

1508N / 02 / 1				1473 / Artillery, All T	ypes			Artillery,	All Types			
Item Number / Title [DODIC]	0 0	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 SALUTIN	NG S	NGL RD				1		, ,			J.	
1.1) B550 LOAD, ASSEMBLY, PACK (LAP)	1	2014	MCALESTER AAP / ROCK ISLAND ARSENAL, IL	РО	ROCK ISLAND ARSENAL, IL	May 2014	May 2015	7,278	44.79	Y		
1.3) PRIMER PERCUSSION MK22-2	1	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)	1	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, ILLU	JM											
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ^{(1)(†)}	1	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	РО	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	3,738	290.49	Y		
3.2) DOWNLOAD, CLEAN AND INSPECT	1	2015	TBD / PICATINNY ARSENAL, NJ	РО	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	3,924	98.34	Y		
3.3) D505 METAL PARTS SETS	1	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	РО	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	3,737	322.51	Y		
3.4) D505 ILLUM CANNISTER, 155MM	1	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	РО	ROCK ISLAND ARSENAL, IL	Feb 2015	Oct 2016	3,812	379.76	Y		
3.5) D505 CANISTER MPTS ASSY, 155MM ILLUM	1	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	1	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	1	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	1	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	1	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	РО	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2016	15,250	3.12	Y		
3.10) D505 PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM	1	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	1	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	РО	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	3,812	32.42	Y		
3.12) D505 WOOD PALLET (HEAT TREATED)	1	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	РО	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	485	86.63	Y		
4) D529, PROJ, 155MM, M795 HE (DA	54)											
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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P-1 Line #24

Exhibit P-5a, Procurement History and Planning: PB 2016 N	lavy	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Aggregated Items:
1508N / 02 / 1	1473 / Artillery, All Types	Artillery, All Types

1508N / 02 / 1				1473 / Artillery, All T	Types			Artillery,	All Types			
Item Number / Title [DODIC]	0 C 0	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)	1	2012	AMERICAN ORDNANCE / MIDDLETOWN, IA	C/FFP	ROCK ISLAND ARSENAL, IL	Mar 2013	Mar 2015	50,318	274.99	Υ		
5) DA12, CHG, 155MM, M231, MOD A	RTY	CHG SYS	3			•						
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	Υ		
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	Υ		
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	Υ		
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	Υ		
5.4) DA12 PROPELLANT, PAPP7993	1	2015	BAE SYSTEMS ORDNANCE SYSTEMS INC / RADFORD,VA	C/FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2016	168,023	8.35	Υ		
5.6) DA12 COMBUSTIBLE CASES		2012	ARMTEC DEFENSE, INC. / COACHELLA, CA	C/FFP	PICATINNY ARSENAL, NJ	Dec 2012	Sep 2014	51,552	35.38	Υ		
5.6) DA12 COMBUSTIBLE CASES	1	2015	TO BE SELECTED <i>I</i> PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Jan 2016	48,585	41.00	Υ		
) DA13, CHG, 155MM, M232A1, MOD	AR	TY CHG S	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	Υ		
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	Υ		
6.1) DA13 LOAD, ASSEMBLE & PACK (LAP)	1	2015	TO BE SELECTED <i>I</i> PICATINNY ARSENAL, NJ	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Jul 2017	28,802	18.54	Υ		
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	Υ		
6.3) DA13 COMBUSTIBLE CASES		2013	ARMTEC DEFENSE, INC. / COACHELLA, CA	C/FFP	PICATINNY ARSENAL, NJ	Mar 2014	Jun 2015	35,856	40.00	Υ		
6.3) DA13 COMBUSTIBLE CASES	✓	2015	TBD / TBD	C/FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	29,658	41.00	Υ		
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	Υ		
6.4) DA13 BLACK POWDER CLASS 1 (LB)	1	2015	GOEX INC / MINDEN, LA	SS/FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,508	14.75	Υ		
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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Exhibit P-5a, Procurement	t Hi	story	and Planning: PB 2016 N	lavy				Date: Fo	ebruary 20	15		
Appropriation / Budget Ac 1508N / 02 / 1	tivi	ity / B	udget Sub Activity:	P-1 Line Item Nun 1473 / Artillery, All					ated Item All Types			
Item Number / Title [DODIC]	0 C 0	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	1	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	РО	ROCK ISLAND ARSENAL, IL	Mar 2013	Mar 2014	14,652	45.34	Y		
7) DA23, CHG, 155MM, M231 MOD AR	RTY (CHG SYS	DUMMY								,	
7.1) DA23 COMPLETE ROUND	1	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	ART	Y CHG S	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)(†)		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)(†)}	1	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	РО	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	1	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	1	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	1	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	1	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	1	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

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:
1473 / Artillery, All Types

Aggregated Items:
Artillery, All Types

1508N / 02 / 1			1	473 / Artillery, All T	Types			Artillery	, All Types			
Item Number / Title [DODIC]	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost		Date Revision Available	RFP Issue Date
9.7) DA49 DELAY ELEMENT	1	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	1	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	РО	ROCK ISLAND ARSENAL, IL	Feb 2015	Oct 2016	8,829	3.12	Y		
9.9) DA49 PARACHUTE, MAIN SUPPORTS	1	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	РО	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	1	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	1	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	MCALESTER AAP / MCALESTER, OK	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	281	86.63	Y		
9.12) DA49 WOOD PALLET (HEAT TREATED)	1	2015	MCALESTER AAP / MCALESTER, 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) ^(†)	1	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) ^(†)	1	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	1	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	1	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 NavyDate: February 2015Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:Aggregated Items:1508N / 02 / 11473 / Artillery, All TypesArtillery, All Types

1508N / 02 / 1			1	14737 Artillery, All 1	ypes			Artillery,	All Types			
Item Number / Title [DODIC]	0 0		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	Υ		
11.4) DA54 PLUG, LIFTING, MELTABLE FOR IM	1	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	1	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	1	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	1	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	1	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	1	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	1	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	1	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	1	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		2013	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS/FFP	ROCK ISLAND ARSENAL, IL	Apr 2013	Oct 2014	1,234,563	12.65	Y		

Exhibit P-5a, Procurement History and Planning: PB 2016 N	avy	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Aggregated Items:
1508N / 02 / 1	1473 / Artillery, All Types	Artillery, All Types

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail		RFP Issue
Item Number / Title [DODIC]	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$)	Now?	Available	Date
11.7) DA54 EXPLOSIVE FILL IMX-101 ⁽³⁾	1	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⁾	1	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⁾	1	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	1	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

Exhibit P-21, P	roducti	on Sc	hedul	e: PB	2010	6 Nav	'y														Date	: Feb	ruary	2015	5			
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	Items n Thousands)						,	Fiscal Y	ear 2012								,			Fiscal Y	ear 2013						Π
		ACCEPT									-	alendar	Year 201	2		ı						Calen	dar Yea	2013				
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D505, PROJ, 155MM,	W485A2, ILL	UM												l	<u> </u>	ļ								l				
3.1) D505 LOAD, ASS	EMBLE, PA	CK (LAP)	[1)																									
7 3 2015 NAVY	3.738	-	3.738																									3.
) DA49, 155MM, IR ILLU	М					ļ.										I.	1											
9.1) DA49 LOAD, AS	SEMBLE & P	ACK (LAP) (2)																									
Prior Years Deliveries																												
4 2015 NAVY	2.164	-	2.164																									2.
4 2015 NAVY	3.290	-	3.290																									3.
1) DA54 155MM HE M7	5 W/IMX			,															· · · · · ·									
11.1) DA54 LOAD, AS	SEMBLE, P.	ACK (LAP)																									
Prior Years Deliveries	77313																											
5 2015 NAVY	7.339	-	7.339																									7.3
/ 5 2015 NAVY	9.440	-	9.440																									9.
1- 120.0	40.974	-	40.974																									40.9
5 2016 NAVY			40.846																									40.
	40.846	-	40.040					F	М	Α	М	J	J	A	s	0	N	D	J	F	M	Α	М	J	J	Α	s	E

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(Units	Items in Thousands)							Fiscal Y	ear 2014											Fiscal Y	ear 2015						
		ACCEPT		-							С	alendar	Year 201	4								Caler	dar Year	2015				
O F C R C SERVIO	PROC E QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J U L	A U G	S E P	B A L
B) D505, PROJ, 155MM	M485A2, ILL	UM							1	l															l			
3.1) D505 LOAD, AS	SEMBLE, PA	CK (LAP)	1)																									-
✓ 3 2015 NAVY	3.738		3.738																		Α -	-	-	-	-	-	-	3.73
) DA49, 155MM, IR ILL	UM			-						ļ.															l .			
9.1) DA49 LOAD, AS	SEMBLE & F	ACK (LAP) (2)																									-
Prior Years Deliverie																												-
4 2015 NAVY	2.164	-	2.164																		A -	-	-	-	-	-	-	2.16
✓ 4 2015 NAVY	3.290	-	3.290																		A -	-	-	-	-	-	-	3.29
11) DA54 155MM HE M	95 W/IMX									•																		
11.1) DA54 LOAD, A	SSEMBLE, P	ACK (LAP))																									
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Prior Years Deliverie		-	7.339																							Α -	-	7.33
Prior Years Deliverie 5 2015 NAVY	7.339																									Α -	-	9.44
	7.339 9.440	-	9.440																									40.97
5 2015 NAVY 5 2015 NAVY 5 2016 NAVY	_	-	9.440 40.974																									40.97
5 2015 NAVY 5 2015 NAVY	9.440	-																										40.84

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		Ite (Units in T	ms housands)	1					,		Fiscal Y	ear 2016											Fiscal Ye	ear 2017						
				ACCEPT									C	alendar	Year 201	16								Calen	dar Yeaı	r 2017				
M O F C R O # F	FY S	SERVICE	PROC QTY	PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	1
) D505, P	PROJ, 1	55MM, M4	85A2, ILL	UM												-														
3.1) D	505 LO	AD, ASSEN	MBLE, PAG	CK (LAP)	1)																									
√ 3 20			3.738	-	3.738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	1.738						
) DA49, 1	155MM,	IR ILLUM																												
9.1) D	A49 LO	AD, ASSE	MBLE & PA	ACK (LAP)	(2)																									
		eliveries: 26																												
4 20	015 N	AVY	2.164	-	2.164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.164							
/ 4 20	015 N	AVY	3.290	-	3.290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	3.290							
11) DA54	155MM	HE M795 \	W/IMX																											
11.1) [DA54 LC	OAD, ASSE	EMBLE, PA	ACK (LAP)																										
Prior Y	Years De	eliveries: 77	7313																											
	015 N		7.339	-	7.339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.634	3.000	+
	015 N		9.440	-	9.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	4.000	3.
	016 N		40.974	-	40.974						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.
√ 5 20	016 N	AVY	40.846	-	40.846						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	n n	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 N	A U G	S E P	

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	ms Thousands) ACCEP' PRIOR TO OT OT OT OTY 2017 85A2, ILLUM MBLE, PACK (LAP) 3.738 3.738 MBLE & PACK (LAI	BAL DUE AS OF 1 OCT							3 / Ar	tillery	, All T	ypes Year 2018 U L		S E	O C	N	D	J			gate /, All	d Ite	ms: es			
1508N / 02 / 1 tem	ms Thousands) ACCEP' PRIOR TO 1 PROC OCT QTY 2017 85A2, ILLUM MBLE, PACK (LAP) 3.738 3.738 MBLE & PACK (LAI 6661	BAL DUE AS OF 1 OCT	O C	N O	D E	J A	FE	Fiscal Ye	3 / Ar ear 2018	tillery	, All T	ypes Year 2018 J	B A U	E			D		F	Artiller	019	Typ ar Year	es			
(Units in The M M O F C R O # FY SERVICE 3) D505, PROJ, 155MM, M485 3.1) D505, LOAD, ASSEME √ 3 2015 NAVY 9) DA49, 155MM, IR ILLUM 9.1) DA49 LOAD, ASSEME Prior Years Deliveries: 266 4 2015 NAVY √ 4 2015 NAVY 11) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEM Prior Years Deliveries: 773 5 2015 NAVY	ACCEP' PRIOR TO 1 PROC OCT QTY 2017 85A2, ILLUM MBLE, PACK (LAP) 3.738 3.738 MBLE & PACK (LAI 6661	BAL DUE AS OF 1 OCT	C	0	E	Ā	F E	M A	A P	M A	J	Ŋ	A U	E			D			(alenda		2019			
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3.1) D505 LOAD, ASSEME 3.1) D505 LOAD, ASSEME 9) DA49, 155MM, IR ILLUM 9.1) DA49 LOAD, ASSEME Prior Years Deliveries: 266 4 2015 NAVY 4 2015 NAVY 11) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEME Prior Years Deliveries: 773 5 2015 NAVY	MBLE, PACK (LAP) 3.738 3.738 MBLE & PACK (LAI)	- P) ⁽²⁾												Р	Ť	O V	E C	A N	E B	Α	2	M A Y	J U N	J U L	A U G	S E P
√ 3 2015 NAVY 9) DA49, 155MM, IR ILLUM 9.1) DA49 LOAD, ASSEME Prior Years Deliveries: 266 4 2015 NAVY √ 4 2015 NAVY 11) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEME Prior Years Deliveries: 773 5 2015 NAVY	3.738 3.738 MBLE & PACK (LAI	- P) ⁽²⁾																								
√ 3 2015 NAVY 9) DA49, 155MM, IR ILLUM 9.1) DA49 LOAD, ASSEME Prior Years Deliveries: 266 4 2015 NAVY √ 4 2015 NAVY 11) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEME Prior Years Deliveries: 773 5 2015 NAVY	3.738 3.738 MBLE & PACK (LAI	- P) ⁽²⁾																								
9) DA49, 155MM, IR ILLUM 9.1) DA49 LOAD, ASSEME Prior Years Deliveries: 266 4 2015 NAVY 4 2015 NAVY 11) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEM Prior Years Deliveries: 773 5 2015 NAVY	MBLE & PACK (LAI																									
Prior Years Deliveries: 266 4 2015 NAVY 4 2015 NAVY 11) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEM Prior Years Deliveries: 773 5 2015 NAVY	661																									
Prior Years Deliveries: 266 4 2015 NAVY 4 2015 NAVY 11) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEM Prior Years Deliveries: 773 5 2015 NAVY	661																									
11.1) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEM Prior Years Deliveries: 773 5 2015 NAVY	2.164 2.16	- 1																								
11) DA54 155MM HE M795 W. 11.1) DA54 LOAD, ASSEM Prior Years Deliveries: 773 5 2015 NAVY			1																							
11.1) DA54 LOAD, ASSEM Prior Years Deliveries: 773 5 2015 NAVY	3.290 3.29) -	1																							
Prior Years Deliveries: 773 5 2015 NAVY	W/IMX		•																							
5 2015 NAVY	EMBLE, PACK (LAF	')																								
	7313																									
/ 5 2015 NAVV	7.339 4.63	2.705	2.705																							
V 3 2013 NAV1	9.440 6.00	3.440	3.440																							
	40.974 -	40.974	-	-	-	-	-	2.500	2.500	2.500	2.500		3.845	5.000		5.000	5.000	4.676								L
✓ 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	U J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	Α	2	M A Y	J U N	J U L	A U G	S E P

LI 1473 - Artillery, All Types Navy

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P-1 Line #24

Exhibit P-21, Production Schedule: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Aggregated Items:
1508N / 02 / 1	1473 / Artillery, All Types	Artillery, All Types

		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MF	R					Init	ial			Reo	rder	
Re #	1	MSR For 2016	1-8-5 For 2016	MAX For 2016	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

[&]quot;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 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).

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1500 / Demolition Munitions, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	Α		Program Ele	ments for Co	de B Items:			Other Relate	d Program El	ements:		
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	67.082	0.418	1.255	-	0.518	0.518	1.716	-	0.500	0.510	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	67.082	0.418	1.255	-	0.518	0.518	1.716	-	0.500	0.510	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	67.082	0.418	1.255	-	0.518	0.518	1.716	-	0.500	0.510	Continuing	Continuing
(The following	g Resource Sumi	mary rows are fo	or informational p	urposes only. Tl	ne corresponding	budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1500 / Demolition Munitions, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pro	ogram	Elements for Code	B Items:	Oth	ner Related Program I	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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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	- 1 -	- / 0.518	- / 0.518

*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

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).

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).

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).

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							U	NCLA5		,								
Exhibit P-5, Cost	Analysis	: PB 20	16 Navy	,										Date: Fe	ebruary 2	2015		
Appropriation / B 1508N / 02 / 1	Budget Ac	tivity / I	Budget	Sub Acti	vity:			n Numbe							mber / T		DIC]: All Types	
ID Code (A=Service Read	dy, B=Not Service	e Ready) :							МІ	DAP/MAIS	Code:							
F	Resource	Summa	ary		F	Prior Yea	ars	FY 20)14	FY	2015	FY 2	016 Ba	se F	Y 2016 C	СО	FY 2016	Total
Procurement Quantity (Un	its in Each)						-		_		_			-		-		
Gross/Weapon System Co)					67.082		0.418		1.255			-		0.518		0.51
Less PY Advance Procure							-				-			-		-		-
Net Procurement (P1) (\$ in	•						67.082		0.418		1.255			-		0.518		0.51
Plus CY Advance Procure		ons)					-		_		-			-		-		_
Total Obligation Authori	•						67.082		0.418		1.255			-		0.518		0.51
	he following R	esource Su	ımmary row	s are for infor	mational pu	irposes only	v. The corre	sponding bud	get request	s are docume	ented elsewhe	re.)						
Initial Spares (\$ in Millions)						, ,	-	, ,	-		-	<u> </u>		-		-		_
Gross/Weapon System U	nit Cost (\$ in D	ollars)					-		-		-			-		-		-
												I		l l				
Note: Subtotals or Totals i	n this Exhibit I	P-5 may no	t be exact o	or add, due to	rounding.													
	P	rior Years	3		FY 2014			FY 2015		FY	2016 Base		F	Y 2016 OC	0	F'	2016 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	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 Wei	1.7	٠ /	,	(1)	(/	(,)	(-)	(/	(,)	(17)	(/	(,)	(1)	(/	(,)	(1)	(/	
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, DEM	O SHEET, 9FT	PETN Cost			l													
Recurring Cost																		
2.1.1) M986 COMPLETE ROUND ^(†)	117.37	6,245	0.733	_	_		_	_	_	_	_	_	266.46	972	0.259	266.46	972	0.25
2.1.2) M986 PRODUCTION																		
ENGINEERING 2.1.3) M986 QUALITY	-	-	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ASSURANCE 2.1.4) M986 FIRST	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTICLE TEST	-	-	0.043	-	-	-	-	-	-	-	-	-	-	-	- 0.050	-	-	-
Subtotal: Recurring Cost Subtotal: Hardware - M986	-	-	0.800	-	-	-	-	-	-	-	-	-	-	-	0.259	-	-	0.25
CHG, DEMO SHEET, 9FT PETN Cost	-	-	0.800	-	-	-	_	-	-	_	-	_	-	-	0.259	-	-	0.25
			nick Cost															

LI 1500 - Demolition Munitions, All Types Navy

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Date: February 2015 Exhibit P-5, Cost Analysis: PB 2016 Navy Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 1508N / 02 / 1 1500 / Demolition Munitions, All Types 1 / Demolition Munitions, All Types

ID Code (A=Service Ready, B=Not Service Ready) : Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Note: Subtotals of Totals if	n this exhibit	i P-5 may no	ot be exact	or add, due id	o rounding.													
	F	Prior Years	S		FY 2014			FY 2015		FY	/ 2016 Ba	se	FY	2016 OC	0	FY	Y 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
3.1.1) M982 COMPLETE																		

1.255

1.255

MDAP/MAIS Code:

0.161 Inch Thick Cost	-	-	-	-	-	-	-	-	1.255	-	-	-	-	-	0.259	-	- '	0.259
Hardware - PRIOR YEAR CUI	MULATIVE F	JNDING 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

11,436

109.75

Recurring Cost 3.1.1) M982 COMPLETE ROUND(†)

Subtotal: Recurring Cost

Subtotal: Hardware - M982, Charge, Demolition Sheet

111.78

-

2,316

-

0.259

0.259

111.78

2,316

-

0.259

0.259

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2016 N	lavy	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:		Item Number / Title [DODIC]:
1508N / 02 / 1	1500 / Demolition Munitions, All Types	1 / Demolition Munitions, All Types

Out Florents	0 0			Method/Type or	Leasting of BOO	Award	Date of First	Qty	Unit Cost	_	Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$)	Now?	Available	Date
1.1.1) DWDN HARDWARE COST	1	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	1	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	Υ		
3.1.1) M982 COMPLETE ROUND	✓	2016	TBD / TBD	C / TBD	ROCK ISLAND ARSENAL, IL	Mar 2016	Dec 2016	2,316	111.78	Y		



Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015
Exhibit 1 40, Budget Eme Rom Guermoution 1 B 2010 Havy	24.0. 1 00.44. 1 20.0

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1625 / Fuze, All Types

Marine Corps 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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	80.574	39.575	7.033	29.335	3.299	32.634	26.355	19.860	13.917	25.221	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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.

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.

LI 1625 - Fuze, All Types

Navy

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P-1 Line #26

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1625 / Fuze, All Types

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A			Elements for Code	B Items:	Ot	Other Related Program Elements:				
Exhibits Schedule		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total			
Title*		ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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.

Justification:

FY16 Base Appropriation Reguest: \$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.

FY15 Base Appropriation Reguest: \$4.972M.

This funding procures the NA28 Precision Guidance Kit in accordance with the total munitions requirement.

FY14 Base Appropriation Reguest: \$25.356M.

This funding procured the PD fuze as well as the Precision Guidance Kit in accordance with the total munitions requirement.

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).

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).

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).

LI 1625 - Fuze, All Types

Navy

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P-1 Line #26

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							UI	NCLAS	SIFIEL	,								
Exhibit P-5, Cost	Analysis	s: PB 20	16 Navy										ı	Date: F	ebruary 2	2015		
Appropriation / B 1508N / 02 / 1				Sub Act	ivity:	I		Numbe All Types							imber / T e, All Type		DIC]:	
ID Code (A=Service Read	ly, B=Not Servi	ice Ready) :							ME	DAP/MAIS	S Code:							•
F	Resource	Summa	arv		F	Prior Yea	ars	FY 20	14	FY	2015	FY 2	2016 Bas	se F	Y 2016 C	СО	FY 2016	Total
Procurement Quantity (Uni							-		-		_			-		-		-
Gross/Weapon System Co		ıs)					80.574		39.575		7.03	3	29	9.335		3.299		32.63
Less PY Advance Procure	ment (\$ in Mi	llions)					-		-		-			-		-		-
Net Procurement (P1) (\$ in	Millions)						80.574		39.575		7.03	3	29	9.335		3.299		32.63
Plus CY Advance Procure	ment (\$ in Mil	lions)					-		-		-			-		-		-
Total Obligation Authorit	y (\$ in Millions	s)					80.574		39.575		7.03	3	29	9.335		3.299		32.63
(TI	ne following l	Resource Su	ımmary rows	are for info	ormational pu	urposes only	. The corres	ponding bud	get request	s are docum	ented elsewh	ere.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in L	Dollars)					-		-		-			-		-		-
Note: Subtotals or Totals in	n this Exhibit	P-5 may no	t be exact or	add, due to	rounding.													
	F	Prior Years	;		FY 2014			FY 2015		F۱	/ 2016 Base	е	FΥ	/ 2016 O	co	F'	Y 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - N340 FUZE PD N		(====)	(+)	(+)	(====)	(+)	(+)	(====	(+)	(+)	(===-)	(+)	(+)	(===-/	(+)	(+)	(====)	(+)
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	9.09
1.1.2) N340 PRODUCTION ENGINEERING	-	-	1.843	-	-	0.651	-	-	_	-	-	0.305	-	_	-	-	-	0.30
1.1.3) N340 ACCEPTANCE TESTING	-	-	1.642	-	-	0.826	-	-	0.118	-	-	0.603	-	-	-	-	-	0.60
1.1.4) N340 QUALITY ASSURANCE	-	-	0.101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	20.798	-	-	17.565	-	-	2.061	-	-	10.000	-	-	-	-	-	10.00
Subtotal: Hardware - N340 FUZE PD M739A1 Cost	-	-	20.798	-	-	17.565	-	-	2.061	-	-	10.000	-	-	-	-	-	10.00
Hardware - NA28 PRECISION	N 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	19.78
2.1.2) NA28 PRODUCTION ENGINEERING	-	-	3.473	-	-	0.820	-	-	0.246	-	-	0.909	-	-	-	-	-	0.90

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P-1 Line #26

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Exhibit P-5, Cost Analysis: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Item Number / Title [DODIC]:
1/ Fuze, All Types

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

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

MDAP/MAIS Code:

	F	Prior Years	s		FY 2014			FY 2015		F۱	1 2016 Ba	se	F	/ 2016 OC	0	F۱	/ 2016 Tot	al
Cost Elements	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

^(†) 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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P-1 Line #26 Volume 2 - 122

Exhibit P-5a, Procurement History and Planning: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

P-1 Line Item Number / Title:
1625 / Fuze, All Types

Date: February 2015

Item Number / Title [DODIC]:
1 / Fuze, All Types

				, ,,								
Cost Elements	0 0	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?	Revision	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 ^(†)	1	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 ^(†)	1	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 ^(†)	1	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 ^(†)	1	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	Υ		
2.1.1) NA28 COMPLETE FUZE ^(†)	1	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

Εx	hibit l	P-21, Pr	oducti	on Sc	hedul	e: PE	3 201	6 Nav	'y														Date	: Feb	ruary	2015	5			
	propi D8N /	riation / 02 / 1	Budge	t Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:			Item uze, A			Title:								Num uze, /			[DOI	DIC]:		
			lements Thousands)	1							Fiscal Y	ear 2013											Fiscal Ye	ear 2014						
				ACCEPT									C	alendar	Year 201	3		,						Calen	dar Yea	2014				
0 0	R	SERVICE	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	JUL	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	A U G	S E P	B A L
		OMPLETE F			1																				-				-	
Pric	r Years D	eliveries: 369	398																											-
T	1 2013	NAVY	3.811	-	3.811																		Α -	-	-	-	-	-	-	3.81
1	1 2013	NAVY	60.136	-	60.136																		Α -	-	-	-	-	-	-	60.13
T	1 2014	NAVY	34.465	-	34.465																		Α -	-	-	-	-	-	-	34.46
/	1 2014	NAVY	191.400	-	191.400																		Α -	-	-	-	-	-	-	191.40
1	1 2015	NAVY	26.810	-	26.810																									26.81
	1 2016	NAVY	119.301	-	119.301																									119.30
2.1.	1) NA28 (COMPLETE F	UZE (1)																											
Pric	r Years D	eliveries: 229	2																											
✓	2 2013	NAVY	2.109	-	2.109											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10
	2 2014	NAVY	2.185	-	2.185																									2.18
	2 2015	NAVY	.534	-	.534																									.53
	2 2016	NAVY	1.738	-	1.738																									1.73
√	2 2016	NAVY	.332	-	.332																									.33
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N 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	N N	U J	A U G	S E P	B A L

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Ext	ibit	P-21, Pro	oducti	ion Sc	hedu	le: PE	3 201	6 Nav	'y														Date	: Feb	ruary	2015				
		riation / 02 / 1	Budge	et Acti	vity /	Budç	get Sı	ub Ac	tivity	:		_	Item uze, A			Title:								Num uze, A		Title pes	[DOI	DIC]:		
		Cost E (Units in 7	lements Thousands)							Fiscal Y	ear 2015											Fiscal Ye	ear 2016						
				ACCEPT				-					С	alendar	Year 201	5					_			Calen	dar Yea	r 2016				
N O F C R		SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U	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	N U	J U L	A U G	S E P	B A L
		COMPLETE R																												_
Prior		Deliveries: 3693		1																										
1		NAVY	3.811	-	3.811	-	-	-	-	-	-	-	-	-	-	-	3.811													-
1		NAVY	60.136	-	60.136	-	-	-	-	-	-	-	-	-	-	-			15.000									٦		<u> </u>
1	2014	+	34.465 191.400	-	34.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	10.000			 	00.000	-
′ 1	2014		26.810	-	191.400 26.810	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.050	28.000	28.000	26.8
1		NAVY	119.301	_	119.301						Α-	-	-		-		-		-	-	-		A -	-				-		119.3
211		COMPLETE F			110.001																		7.							
		Deliveries: 2292																												
/ 2		NAVY	2.109	_	2.109	_	_	_	_	_	_	-	-	-	-	_	_		.749	.800	.560									7 -
2	_	NAVY	2.185	-	2.185					Α -	-	-	-	-	-	-	-		-	-	-	.101	1.100	.984						-
2	+	_	.534	-	.534					Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.53
2	2016	NAVY	1.738	-	1.738																	A -	-	-	-	-	-	-	-	1.73
/ 2	2016	NAVY	.332	-	.332																	Α -	-	-	-	-	-	-	-	.33
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U	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	J U L	A U G	S E P	B A L

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														UN	CLA	3311	ILD														
Ex	hil	bit	t P-21, Pr	oduct	ion Sc	hedu	le: PB	201	6 Nav	/y														Date	e: Feb	oruary	2015	5			
			priation / / 02 / 1	Budge	et Acti	vity /	Budg	et Sı	ıb Ac	tivity	:		Line 5 / Fu				Γitle:									nber / All Ty _l		[DOE	DIC]:		
				lements Thousands	s)	,						Fiscal Y	ear 2017											Fiscal Y	ear 2018						
					ACCEPT									C	alendar \	ear 201	7								Caler	ndar Year	2018				
O I	M F R #	FY	Y SERVICE	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
1.1.	1) N	N340	0 COMPLETE F	OUND																											
Prio	r Ye	'ears	s Deliveries: 369	398																											
1	1	201	13 NAVY	3.811	3.811	-																									
1	1	201	13 NAVY	60.136	60.136	-	1																								
1	1	201	14 NAVY	34.465	34.465	-	1																								
1	1	201	14 NAVY	191.400	63.050	128.350	28.000	28.000	32.350	40.000																					
1	1	201	15 NAVY	26.810	-	26.810	-	-	-	-	-	-	-	-	-	-	18.030	8.780													
1	1	201	16 NAVY	119.301	-	119.301	-	-	-	-	-	-	-	-	-	-	-	11.050	20.000	20.000	20.000	20.000	20.000	8.251							
2.1.	1) N	NA28	28 COMPLETE F	UZE (1)												•	•														
			s Deliveries: 229												-		-	-					-								
1 2	2	201	13 NAVY	2.109	2.109	-																									
1	2	201	14 NAVY	2.185	2.185	-	1																								
2	2	201	15 NAVY	.534	-	.534	- [.177	.177	.177	.003																				
2	2	201	16 NAVY	1.738	-	1.738	-	-	-	-	.145	.145	.145	.145	.145	.145	.145	.145	.145	.145	.142	.146									
1 2	2	201	16 NAVY	.332	-	.332	-	-	-	-	.028	.028	.028	.028	.028	.028	.027	.027	.027	.027	.028	.028									
				,		,	0 C	N O	D E	J A	F E	M A	A P	M A Y	Ŋ	J	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	Ŋ	J	A U	S E	E

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Exhibit P-21, Production Schedule: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Item Number / Title [DODIC]:

1 / Fuze, All Types

		Produc	ction Rates (Each	/ Year)	,		, .	Procurement Lea	adtime (Months)			
MFR						Initia	ıl			Reo	rder	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	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
l	ALLIANT TECH SYSTEMS INC - PLYMOUTH, MN	300	800	10,600	13	11	10	21	12	6	10	16

[&]quot;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 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:	P-1 Line Item Number / Title:	
1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1:	1628 / Non Lethals	
Marine Corps Ammunition		

ID Code (A=Service Ready, B=Not Service Ready) :	A		Program Ele	ments for Co	de B Items:			Other Relate	d Program El	ements:		
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	10.890	-	0.998	3.868	-	3.868	3.869	3.868	11.384	11.605	-	46.482
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	10.890	-	0.998	3.868	-	3.868	3.869	3.868	11.384	11.605	-	46.482
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	10.890	-	0.998	3.868	-	3.868	3.869	3.868	11.384	11.605	-	46.482
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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.

Mission Payload Module Non-Lethal Munitions (MPMN) is a New Start in FY16.

LI 1628 - Non Lethals
Navy

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Page 1 of 6
P-1 Line #27

Volume 2 - 129

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1628 / Non Lethals

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pi	rogram	Elements for Code	B Items:	0	ther 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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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 Reguest \$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).

LI 1628 - Non Lethals
Navy

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P-1 Line #27

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Cost Elements								U	NCLAS	SIFIEL	,								
1508H / 02 / 1 1628 / Non Lethals	Exhibit P-5, Cost	Analysi	s: PB 20	16 Navy	,										Date: F	ebruary	2015		
Prior Years		Budget A	ctivity /	Budget	Sub Acti	vity:				er / Title:							Title [DO	DIC]:	
Procurement Quantity (Units in Each)	ID Code (A=Service Read	dy, B=Not Serv	rice Ready) :							М	DAP/MAIS	Code:		L					
Coss Membra Cost S Mallons 10,890 - 0,998 3,886 -	F	Resource	e Summ	ary			Prior Ye	ars	FY 20)14	FY	2015	FY	2016 Bas	se F	Y 2016	осо	FY 2016	Total
Less PY Advance Procurement (\$P\$) of in Millions)	Procurement Quantity (Un	its in Each)						-		_		-			-		-		_
Net Procurement (P1) (5 in Millions)	Gross/Weapon System Co	ost (\$ in Million	ns)					10.890		-		0.99	8	;	3.868				3.868
Plus CY Advance Procurement (s in Millions)	Less PY Advance Procure	ement (\$ in Mi	illions)					-		-		-			-		-		-
Total Obligation Authority (\$ in Millions) 10.890 0.998 3.868	Net Procurement (P1) (\$ in	n Millions)						10.890		-		0.99	8	;	3.868		-		3.868
The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)	Plus CY Advance Procure	ement (\$ in Mi	llions)					-		-		-			-		-		-
Initial Spares (s in Affilions) Cross/Weapon System Unit Cost (s in Dollars) - - - - - - - - -	Total Obligation Authori	ty (\$ in Million	s)					10.890		-		0.99	8	;	3.868		-		3.868
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. Prior Years	(T	he following	Resource Sเ	ımmary row	s are for infor	mational p	urposes onl	ly. The corres	sponding bud	lget request	s are docum	ented elsewh	nere.)						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. Prior Years	Initial Spares (\$ in Millions)							-		-		-			-		-		-
Prior Year	Gross/Weapon System U	nit Cost (\$ in	Dollars)					-		-		-			-		-		-
Prior Year	N + 0 + + + + + + + + + + + + + + + + +																		
Cost Elements	Note: Subtotals or Totals i				_				EV 2015		EV	/ 2016 Ras	^	E	/ 2016 O	<u></u>		V 2016 To	tal
Cost Elements				Total				Unit Cost					Total			Total			Total Cost
Recurring Cost		(\$)	(Each)				(\$ M)			(\$ M)									(\$ M)
1.1.1) AAS1 COMPLETE ROUND ⁽¹⁾	· ·	AUGE NON-LE	THAL POINT	CONTROL M	11012 Cost														
COMPLETE ROUND ^(†) ROUND ^(†) ROUNDCTION ENGINEERING Subtotal: Recurring Cost Subtotal: Recurring Cost Subtotal: Recurring Cost CTG, 12 GAUGE NON- LETHAL POINT CONTROL M1012 Cost Recurring Cost 2.1.1) BA06 COMPLETE ROUND ^(†) R.55 87,616 0.749																			1
1.1.2) AA51 PRODUCTION ENGINEERING 0.065 0.242	COMPLETE	_	_	_	_		_	2.49	102 942	0.256	_	_	_			_	_	_	_
Subtotal: Recurring Cost - - 0.065 - - - - - 0.498 - - - - - - - - -	1.1.2) AA51 PRODUCTION													_					_
CTG, 12 GAUGE NON- LETHAL POINT CONTROL M1012 Cost 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		-	-			-	-	-	-		-	-	-	-	-	-	-	-	-
Hardware - BA06 CTG 40MM XM / M1006, NON-LETHAL (SPONGE GR) Cost	CTG, 12 GAUGE NON- LETHAL POINT CONTROL	_	_	0.065	_	_	_	_	_	0 498	_	_	_	_	_	_	_	_	_
2.1.1) BA06 COMPLETE ROUND ^(†) 8.55 87,616 0.749		1 XM / M1006,	NON-LETHAL		R) Cost		L			2.700									1
COMPLETE ROUND ^(†) 8.55 87,616 0.749	Recurring Cost																		-
2.1.2) BA06 PRODUCTION ENGINEERING 0.110																			
PRODUCTION ENGINEERING - - 0.110 - </td <td>ROUND^(†)</td> <td>8.55</td> <td>87,616</td> <td>0.749</td> <td>-</td>	ROUND ^(†)	8.55	87,616	0.749	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost 0.859	PRODUCTION	-	-	0.110	-	-	-	-	-	-	-	-	-	_	_	-	-	_	-
	Subtotal: Recurring Cost	-	-	0.859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - BA06 CTG 40MM XM / M1006, NON-LETHAL (SPONGE GR) Cost 0.859	CTG 40MM XM / M1006, NON-LETHAL (SPONGE	_	-	0.859	-	_	-	_	-	-	-	-	-	-	-	_	-	_	_

LI 1628 - Non Lethals Navy UNCLASSIFIED

P-1 Line #27

Exhibit P-5, Cost	Analysis	: PB 20	16 Navy											Date: Fe	bruary 2	2015		
Appropriation / B 1508N / 02 / 1	udget Ac	tivity /	Budget	Sub Act	ivity:	I	Line Item 3 / Non Le		r / Title:					Item Nu 1 / Non I		Fitle [DOI	DIC]:	
ID Code (A=Service Read	dy, B=Not Servic	e Ready) :				·			М	DAP/MAIS	Code:							
Note: Subtotals or Totals i	n this Exhibit I	P-5 may no	t be exact o	r add, due to	rounding.				'									
	Pi	rior Years	S		FY 2014			FY 2015		FY	′ 2016 Bas	se	F	Y 2016 OC	0	FY	2016 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - GG04 GREANDE	, HAND, RUBBE	ER BALL NO	N-LETHAL Co	ost			,	,										
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 Co	ost															
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 PAYLO	AD MODULE N	ON-LETHAL	Cost															
Recurring Cost					Г		1											
5.1.1) MPMN COMPLETE ROUND ^(†)	_	_	-	-	_	_	_	-	-	222.39	17,395	3.868	_	-	<u>-</u>	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 prese	nce of a P-5	a																

LI 1628 - Non Lethals Navy UNCLASSIFIED Page 4 of 6

P-1 Line #27

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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 / Ti 1628 / Non Lethals	tle:	Item Number / Title [DODIC]: 1 / Non Lethals
ID Code (A=Service Ready, B=Not Service Ready):		MDAP/MAIS Code:	
1508N / 02 / 1	1628 / Non Lethals		1 / Non Lethals

LI 1628 - Non Lethals Navy UNCLASSIFIED
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P-1 Line #27

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

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$)	Now?	Available	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 / JANESVILE, WI	C/FFP	ARDEC, PICATINNY, NJ	May 2013	Aug 2014	86,666	8.55	Y		
2.1.1) BA06 COMPLETE ROUND	1	2013	AMTEC CORPORATION / JANESVILE, 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	1	2012	COMBINED SYSTEMS INC. / JAMESTOWN, NY	C/FFP	ARDEC, PICATINNY, NJ	Mar 2012	May 2015	37,473	19.00	Υ		
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	Υ		
3.1.1) GG04 COMPLETE ROUND		2015	TBD / TBD	C / FFP	ARDEC, PICATINNY, NJ	May 2015	Nov 2016	16,650	30.03	Υ		
5.1.1) MPMN COMPLETE ROUND		2016	TBD / TBD	C / TBD	MCSC, Quantico, VA	Mar 2016	Oct 2016	17,395	222.39	Υ		

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1630 / Ammo Modernization

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	Resource Summary Years FY ment Quantity (Units in Each)				de B Items:		Other Related Program Elements:					
Resource Summary		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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	33.121	8.328	11.319	15.117	-	15.117	16.746	16.760	16.759	17.095	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	33.121	8.328	11.319	15.117	-	15.117	16.746	16.760	16.759	17.095	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	33.121	8.328	11.319	15.117	-	15.117	16.746	16.760	16.759	17.095	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

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:

P-1 Line Item Number / Title:

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

1630 / Ammo Modernization

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pr	ogram	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 CI		Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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	- 1 -	- / 15.117		

*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.

Justification:

FY2016 Base Appropriation Reguest: \$15.117M

The FY2016 funding request was reduced by \$600 thousand to account for the availability of prior year execution balances.

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).

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).

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).

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Aggregated Items Title:

1630 / Ammo Modernization

Ammo Modernization

Note: Subtotals or Total	als in	this Ex	hibit P-40a r	may not be	exact or ad	d, due to rou	ınding.													
				Prior Years			FY 2014			FY 2015			FY 2016 Base	e	ı	FY 2016 OCC)	F	Y 2016 Tota	Ī
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	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	Α		-	-	3.825	-	-	1.452	-	-	1.599	-	-	1.911	-	-	-	-	-	1.911
1.2) AM02, ROCKETS AMMO MOD ⁽¹⁾	Α		-	-	5.417	-	-	1.202	-	-	1.412	_	-	2.708	-	-	-	-	-	2.708
1.3) AM03, LINE CHARGE AMMO MOD	Α		-	-	3.235	-	-	2.002	-	-	2.411	-	-	2.173	-	-	-	-	-	2.173
1.4) AM04, COMPONENTS AMMO MOD	Α		-	-	3.430	-	-	1.804	-	-	2.411	-	-	2.776	-	-	-	-	-	2.776
1.5) AM05, MISSILE COMP AMMO MOD	Α		-	-	3.690	-	-	1.244	-	-	1.980	-	-	2.943	-	-	-	-	-	2.943
1.6) AM06, QUAL EVAL AMMO MOD	Α		-	-	13.462	-	-	0.624	-	-	1.492	-	-	2.606	-	-	-	-	-	2.606
1.7) AMMO, AMMO MOD	Α		-	_	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:

LI 1630 - Ammo Modernization Navy

⁽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.



Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1660 / Items less than \$5 million

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready):	A		Program Elei	ments for Cod	de B Items:			Other Related Program Elements:						
	Prior			FY 2016	FY 2016	FY 2016					То			
Resource Summary	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total		
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost (\$ in Millions)	24.920	10.685	11.178	11.219	-	11.219	11.482	11.541	11.699	11.915	Continuing	Continuing		
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P1) (\$ in Millions)	24.920	10.685	11.178	11.219	-	11.219	11.482	11.541	11.699	11.915	Continuing	Continuing		
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)	24.920	10.685	11.178	11.219	-	11.219	11.482	11.541	11.699	11.915	Continuing	Continuing		
(The following	mary rows are fo	or informational p	urposes only. Th	e corresponding	g budget request:	s are documente	ed elsewhere.)							
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-		

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.

LI 1660 - Items less than \$5 million Navy

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1660 / Items less than \$5 million

Marine Corps Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : A	Pro	ogram	Elements for Code	B Items:	Ot	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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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	- 1 -	- / 11.219			

*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.

Justification:

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.

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.

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.

LI 1660 - Items less than \$5 million Navy

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy

Appropriation / Budget Activity / Budget Sub Activity:

1508N / 02 / 1

Date: February 2015

Aggregated Items Title:

1660 / Items less than \$5 million

				Prior Years			FY 2014			FY 2015		F	Y 2016 Base	•	F	Y 2016 OCC)	F	Y 2016 Tota	ıl
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)															
1) Items Less than \$5M																				
1.1) A001, RIFLE TEAM AMMUNITION	А		-	-	0.199	-	-	0.030	-	-	0.197	-	-	0.197	-	-	-	-	-	0.19
1.2) DRUG INT, DRUG INTERDICTION	Α		-	-	2.325	-	-	0.364	-	-	-	-	-	-	-	-	-	-	-	-
1.3) FDTC, FIRST DESTINATION TRANSPORTATION CHARGE ⁽¹⁾			-	_	21.196	-	-	4.691	-	-	9.569	-	-	9.533	-	-	-	-	_	9.53
1.4) MSGB, MARINE SECURITY GUARD BATTALION AMMO	Α		-	-	1.200	-	-	1.400	-	-	1.412	-	-	1.489	-	-	-	-	-	1.48
1.5) Special Purpose MAGTF-Crisis Response	Α		-	-	-	-	-	4.200	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Items Less than \$5M			-	-	24.920	-	-	10.685	-	-	11.178	-	-	11.219	-	-	-	-	-	11.21
Total			- 1	-	24.920	-	-	10.685	-	-	11.178	- 1	-	11.219	-	-	-	-	-	11.21

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.

