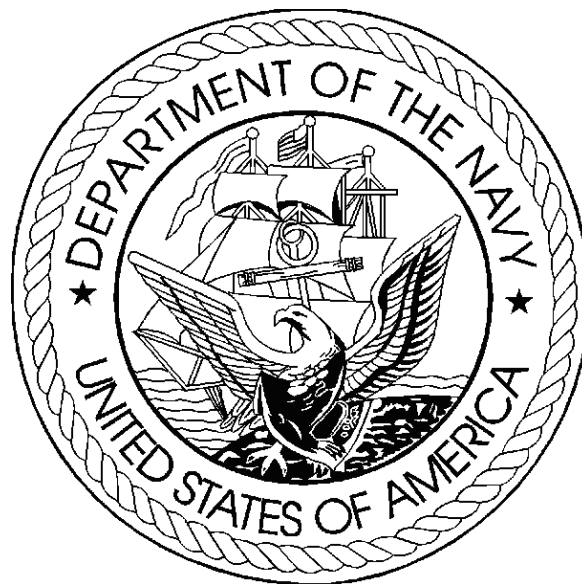


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**Department of Defense
Fiscal Year (FY) 2017 President's Budget Submission**

February 2016



Navy

Justification Book Volume 1 of 1

Procurement of Ammo, Navy & MC

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The estimated cost for this report for the Department of the Navy (DON) is \$29,898.

The estimated total cost for supporting the DON budget justification material is approximately \$1,834,000 for the 2016 fiscal year. This includes \$75,200 in supplies and \$1,758,800 in labor.

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Navy • President's Budget Submission FY 2017 • Procurement

Table of Volumes

Navy..... Volume 1

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UNCLASSIFIED

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UNCLASSIFIED

Navy • President's Budget Submission FY 2017 • Procurement

Volume 1 Table of Contents

Introduction and Explanation of Contents.....Volume 1 - v
Comptroller Exhibit P-1.....Volume 1 - vii
Master Line Item Table of Contents (by Appropriation then Line Number)..... Volume 1 - xv
Master Line Item Table of Contents (Alphabetically by Line Item Title).....Volume 1 - xvii
Line Item Table of Contents (by Appropriation then Line Number)..... Volume 1 - xix
Line Item Table of Contents (Alphabetically by Line Item Title)..... Volume 1 - xxi
Exhibit P-40s..... Volume 1 - 1

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Department of Defense Appropriations Act, 2017

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, \$730,597,000, to remain available for obligation until September 30, 2019.

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Department of the Navy
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

14 Jan 2016

Appropriation -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
Procurement of Ammo, Navy & MC	828,990	651,920	117,966	769,886
Total Department of the Navy	828,990	651,920	117,966	769,886

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Department of the Navy
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

14 Jan 2016

Appropriation -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 Total -----
Procurement of Ammo, Navy & MC	664,368	66,229	730,597
Total Department of the Navy	664,368	66,229	730,597

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
01. Proc Ammo, Navy	624,899	506,266	51,006	557,272
02. Proc Ammo, MC	204,091	145,654	66,960	212,614
Total Procurement of Ammo, Navy & MC	828,990	651,920	117,966	769,886

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Department of the Navy
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

14 Jan 2016

Appropriation: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 Total -----
01. Proc Ammo, Navy	469,072	60,903	529,975
02. Proc Ammo, MC	195,296	5,326	200,622
Total Procurement of Ammo, Navy & MC	664,368	66,229	730,597

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Proc Ammo, Navy											

Navy Ammunition											
1	General Purpose Bombs	A		91,893		92,180		9,715		101,895	U
2	Airborne Rockets, All Types	A		79,146		66,224		10,913		77,137	U
3	Machine Gun Ammunition	A		23,757		16,199		3,603		19,802	U
4	Practice Bombs	A		28,101		39,365				39,365	U
5	Cartridges & Cart Actuated Devices	A		50,866		48,314				48,314	U
6	Air Expendable Countermeasures	A		79,452		44,953		11,982		56,935	U
7	JATOS	A				2,806				2,806	U
8	LRLAP 155MM Long Range Land Attack Projectile	A		113,092		5,675				5,675	U
9	5 Inch/54 Gun Ammunition	A		35,702		40,994				40,994	U
10	Intermediate Caliber Gun Ammunition	A		2,133		36,715				36,715	U
11	Other Ship Gun Ammunition	A		47,825		45,483		4,674		50,157	U
12	Small Arms & Landing Party Ammo	A		54,096		52,080		3,456		55,536	U
13	Pyrotechnic and Demolition	A		14,565		10,809		1,989		12,798	U
14	Ammunition Less Than \$5 Million	A		4,271		4,469		4,674		9,143	U
Total Proc Ammo, Navy				624,899		506,266		51,006		557,272	

Budget Activity 02: Proc Ammo, MC

Marine Corps Ammunition

15	Small Arms Ammunition			41,083		24,575				24,575	U
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P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 14, 2016 at 09:47:08

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Volume 1 - xi

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Proc Ammo, Navy									

Navy Ammunition									
1	General Purpose Bombs	A		91,659		40,366		132,025	U
2	Airborne Rockets, All Types	A		65,759		8,860		74,619	U
3	Machine Gun Ammunition	A		8,152				8,152	U
4	Practice Bombs	A		41,873				41,873	U
5	Cartridges & Cart Actuated Devices	A		54,002				54,002	U
6	Air Expendable Countermeasures	A		57,034		7,060		64,094	U
7	JATOS	A		2,735				2,735	U
8	LRLAP 155MM Long Range Land Attack Projectile	A							U
9	5 Inch/54 Gun Ammunition	A		19,220				19,220	U
10	Intermediate Caliber Gun Ammunition	A		30,196				30,196	U
11	Other Ship Gun Ammunition	A		39,009				39,009	U
12	Small Arms & Landing Party Ammo	A		46,727				46,727	U
13	Pyrotechnic and Demolition	A		9,806		1,122		10,928	U
14	Ammunition Less Than \$5 Million	A		2,900		3,495		6,395	U
Total Proc Ammo, Navy				469,072		60,903		529,975	

Budget Activity 02: Proc Ammo, MC

Marine Corps Ammunition

15	Small Arms Ammunition			27,958		1,205		29,163	U
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P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 14, 2016 at 09:47:08

UNCLASSIFIED

Volume 1 - xii

UNCLASSIFIED

Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
16	Linear Charges, All Types	A		9,535							U
17	40 Mm, All Types	A		14,063							U
18	60mm, All Types	A		8,731		1,849			1,849		U
19	81mm, All Types	A		10,279		1,000			1,000		U
20	120mm, All Types	A		15,261		4,826			4,826		U
21	Grenades, All Types	A		6,218		1,390			1,390		U
22	Rockets, All Types	A		24,310		14,967		3,993	18,960		U
23	Artillery, All Types	A		42,357		40,669		59,150	99,819		U
24	Demolition Munitions, All Types	A		1,255				518	518		U
25	Fuze, All Types	A		7,033		27,969		3,299	31,268		U
26	Non Lethals	B		1,098		3,868			3,868		U
27	Ammo Modernization	A		11,319		13,322			13,322		U
28	Items Less Than \$5 Million	A		11,549		11,219			11,219		U
Total Proc Ammo, MC				204,091		145,654		66,960	212,614		
Total Procurement of Ammo, Navy & MC				828,990		651,920		117,966	769,886		

UNCLASSIFIED

Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1508N Procurement of Ammo, Navy & MC

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
16	Linear Charges, All Types	A							U
17	40 Mm, All Types	A		14,758		539		15,297	U
18	60mm, All Types	A		992		909		1,901	U
19	81mm, All Types	A							U
20	120mm, All Types	A		16,757		530		17,287	U
21	Grenades, All Types	A		972				972	U
22	Rockets, All Types	A		14,186		469		14,655	U
23	Artillery, All Types	A		68,656		1,196		69,852	U
24	Demolition Munitions, All Types	A		1,700		261		1,961	U
25	Fuze, All Types	A		26,088		217		26,305	U
26	Non Lethals	B							U
27	Ammo Modernization	A		14,660				14,660	U
28	Items Less Than \$5 Million	A		8,569				8,569	U
Total Proc Ammo, MC				195,296		5,326		200,622	
Total Procurement of Ammo, Navy & MC				664,368		66,229		730,597	

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 14, 2016 at 09:47:08

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Volume 1 - xiv

UNCLASSIFIED

Navy • President's Budget Submission FY 2017 • Procurement

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

Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	01	0145	General Purpose Bombs.....	Volume 1 - 1
2	01	01	0151	Airborne Rockets, All Types.....	Volume 1 - 23
3	01	01	0155	Machine Gun Ammunition.....	Volume 1 - 39
4	01	01	0160	Practice Bombs.....	Volume 1 - 55
5	01	01	0180	Cartridge Actuated Devices/Propellant Act Devices.....	Volume 1 - 67
6	01	01	0182	Air Expendable Countermeasures.....	Volume 1 - 81
7	01	01	0194	Jet Assisted Take Off (JATOs).....	Volume 1 - 101
8	01	01	0198	LRLAP 155MM Long Range Land Attack Projectile.....	Volume 1 - 111
9	01	01	0250	5 Inch/54 Gun Ammunition.....	Volume 1 - 119
10	01	01	0266	Intermediate Caliber Gun Ammo.....	Volume 1 - 133
11	01	01	0270	Other Ship Gun Ammunition.....	Volume 1 - 141
12	01	01	0335	Small Arms & Lndg Party Ammo.....	Volume 1 - 161
13	01	01	0340	Pyrotechnic and Demolition.....	Volume 1 - 207
14	01	01	0400	Ammunition less than \$5 million.....	Volume 1 - 223

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Navy • President's Budget Submission FY 2017 • Procurement

Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	BA	BSA	Line Item Number	Line Item Title	Page
15	02	01	1000	Small Arms Ammunition.....	Volume 1 - 233
16	02	01	1030	Linear Charges, All Types.....	Volume 1 - 249
17	02	01	1050	40 MM, All Types.....	Volume 1 - 255
18	02	01	1083	60 MM, All Types.....	Volume 1 - 265
19	02	01	1091	81 MM, All Types.....	Volume 1 - 273
20	02	01	1121	120 MM, All Types.....	Volume 1 - 281
21	02	01	1468	Grenades, All Types.....	Volume 1 - 293
22	02	01	1471	Rockets, All Types.....	Volume 1 - 305
23	02	01	1473	Artillery, All Types.....	Volume 1 - 315
24	02	01	1500	Demolition Munitions, All Types.....	Volume 1 - 337
25	02	01	1625	Fuze, All Types.....	Volume 1 - 343
26	02	01	1628	Non Lethals.....	Volume 1 - 353
27	02	01	1630	Ammo Modernization.....	Volume 1 - 359
28	02	01	1660	Items less than \$5 million.....	Volume 1 - 363

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2017 • Procurement

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

Line Item Title	Line Item Number	Line #	BA	BSA	Page
120 MM, All Types	1121	20	02	01.....	Volume 1 - 281
40 MM, All Types	1050	17	02	01.....	Volume 1 - 255
5 Inch/54 Gun Ammunition	0250	9	01	01.....	Volume 1 - 119
60 MM, All Types	1083	18	02	01.....	Volume 1 - 265
81 MM, All Types	1091	19	02	01.....	Volume 1 - 273
Air Expendable Countermeasures	0182	6	01	01.....	Volume 1 - 81
Airborne Rockets, All Types	0151	2	01	01.....	Volume 1 - 23
Ammo Modernization	1630	27	02	01.....	Volume 1 - 359
Ammunition less than \$5 million	0400	14	01	01.....	Volume 1 - 223
Artillery, All Types	1473	23	02	01.....	Volume 1 - 315
Cartridge Actuated Devices/Propellant Act Devices	0180	5	01	01.....	Volume 1 - 67
Demolition Munitions, All Types	1500	24	02	01.....	Volume 1 - 337
Fuze, All Types	1625	25	02	01.....	Volume 1 - 343
General Purpose Bombs	0145	1	01	01.....	Volume 1 - 1
Grenades, All Types	1468	21	02	01.....	Volume 1 - 293
Intermediate Caliber Gun Ammo	0266	10	01	01.....	Volume 1 - 133
Items less than \$5 million	1660	28	02	01.....	Volume 1 - 363

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2017 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Jet Assisted Take Off (JATOs)	0194	7	01	01.....	Volume 1 - 101
LRLAP 155MM Long Range Land Attack Projectile	0198	8	01	01.....	Volume 1 - 111
Linear Charges, All Types	1030	16	02	01.....	Volume 1 - 249
Machine Gun Ammunition	0155	3	01	01.....	Volume 1 - 39
Non Lethals	1628	26	02	01.....	Volume 1 - 353
Other Ship Gun Ammunition	0270	11	01	01.....	Volume 1 - 141
Practice Bombs	0160	4	01	01.....	Volume 1 - 55
Pyrotechnic and Demolition	0340	13	01	01.....	Volume 1 - 207
Rockets, All Types	1471	22	02	01.....	Volume 1 - 305
Small Arms & Lndg Party Ammo	0335	12	01	01.....	Volume 1 - 161
Small Arms Ammunition	1000	15	02	01.....	Volume 1 - 233

UNCLASSIFIED

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Navy • President's Budget Submission FY 2017 • Procurement

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

Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	01	0145	General Purpose Bombs.....	Volume 1 - 1
2	01	01	0151	Airborne Rockets, All Types.....	Volume 1 - 23
3	01	01	0155	Machine Gun Ammunition.....	Volume 1 - 39
4	01	01	0160	Practice Bombs.....	Volume 1 - 55
5	01	01	0180	Cartridge Actuated Devices/Propellant Act Devices.....	Volume 1 - 67
6	01	01	0182	Air Expendable Countermeasures.....	Volume 1 - 81
7	01	01	0194	Jet Assisted Take Off (JATOs).....	Volume 1 - 101
8	01	01	0198	LRLAP 155MM Long Range Land Attack Projectile.....	Volume 1 - 111
9	01	01	0250	5 Inch/54 Gun Ammunition.....	Volume 1 - 119
10	01	01	0266	Intermediate Caliber Gun Ammo.....	Volume 1 - 133
11	01	01	0270	Other Ship Gun Ammunition.....	Volume 1 - 141
12	01	01	0335	Small Arms & Lndg Party Ammo.....	Volume 1 - 161
13	01	01	0340	Pyrotechnic and Demolition.....	Volume 1 - 207
14	01	01	0400	Ammunition less than \$5 million.....	Volume 1 - 223

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Navy • President's Budget Submission FY 2017 • Procurement

Appropriation 1508N: Procurement of Ammo, Navy & MC

Line #	BA	BSA	Line Item Number	Line Item Title	Page
15	02	01	1000	Small Arms Ammunition.....	Volume 1 - 233
16	02	01	1030	Linear Charges, All Types.....	Volume 1 - 249
17	02	01	1050	40 MM, All Types.....	Volume 1 - 255
18	02	01	1083	60 MM, All Types.....	Volume 1 - 265
19	02	01	1091	81 MM, All Types.....	Volume 1 - 273
20	02	01	1121	120 MM, All Types.....	Volume 1 - 281
21	02	01	1468	Grenades, All Types.....	Volume 1 - 293
22	02	01	1471	Rockets, All Types.....	Volume 1 - 305
23	02	01	1473	Artillery, All Types.....	Volume 1 - 315
24	02	01	1500	Demolition Munitions, All Types.....	Volume 1 - 337
25	02	01	1625	Fuze, All Types.....	Volume 1 - 343
26	02	01	1628	Non Lethals.....	Volume 1 - 353
27	02	01	1630	Ammo Modernization.....	Volume 1 - 359
28	02	01	1660	Items less than \$5 million.....	Volume 1 - 363

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Navy • President's Budget Submission FY 2017 • Procurement

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

Line Item Title	Line Item Number	Line #	BA	BSA	Page
120 MM, All Types	1121	20	02	01.....	Volume 1 - 281
40 MM, All Types	1050	17	02	01.....	Volume 1 - 255
5 Inch/54 Gun Ammunition	0250	9	01	01.....	Volume 1 - 119
60 MM, All Types	1083	18	02	01.....	Volume 1 - 265
81 MM, All Types	1091	19	02	01.....	Volume 1 - 273
Air Expendable Countermeasures	0182	6	01	01.....	Volume 1 - 81
Airborne Rockets, All Types	0151	2	01	01.....	Volume 1 - 23
Ammo Modernization	1630	27	02	01.....	Volume 1 - 359
Ammunition less than \$5 million	0400	14	01	01.....	Volume 1 - 223
Artillery, All Types	1473	23	02	01.....	Volume 1 - 315
Cartridge Actuated Devices/Propellant Act Devices	0180	5	01	01.....	Volume 1 - 67
Demolition Munitions, All Types	1500	24	02	01.....	Volume 1 - 337
Fuze, All Types	1625	25	02	01.....	Volume 1 - 343
General Purpose Bombs	0145	1	01	01.....	Volume 1 - 1
Grenades, All Types	1468	21	02	01.....	Volume 1 - 293
Intermediate Caliber Gun Ammo	0266	10	01	01.....	Volume 1 - 133
Items less than \$5 million	1660	28	02	01.....	Volume 1 - 363

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2017 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Jet Assisted Take Off (JATOs)	0194	7	01	01.....	Volume 1 - 101
LRLAP 155MM Long Range Land Attack Projectile	0198	8	01	01.....	Volume 1 - 111
Linear Charges, All Types	1030	16	02	01.....	Volume 1 - 249
Machine Gun Ammunition	0155	3	01	01.....	Volume 1 - 39
Non Lethals	1628	26	02	01.....	Volume 1 - 353
Other Ship Gun Ammunition	0270	11	01	01.....	Volume 1 - 141
Practice Bombs	0160	4	01	01.....	Volume 1 - 55
Pyrotechnic and Demolition	0340	13	01	01.....	Volume 1 - 207
Rockets, All Types	1471	22	02	01.....	Volume 1 - 305
Small Arms & Lndg Party Ammo	0335	12	01	01.....	Volume 1 - 161
Small Arms Ammunition	1000	15	02	01.....	Volume 1 - 233

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0145 / General Purpose Bombs
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,028.719	91.893	101.895	91.659	40.366	132.025	96.723	94.981	87.517	89.269	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,028.719	91.893	101.895	91.659	40.366	132.025	96.723	94.981	87.517	89.269	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,028.719	91.893	101.895	91.659	40.366	132.025	96.723	94.981	87.517	89.269	Continuing	Continuing

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

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

Description:

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

The GP Budget procures several different categories of munitions components. Bomb bodies vary in size, construction and explosive fill to provide the desired effect when employed against their targets. The flight and guidance of the bomb body is provided in three basic ways. First, a basic fixed fin stabilizes the bomb and allows the weapon to travel on a ballistic line of fall as controlled by forward movement imparted by the aircraft and gravity. Secondly, the Laser Guided components control the fall of the bomb using movable surfaces and a laser detecting device to guide the bomb to a location on the ground illuminated by a laser designator. Lastly, the Joint Direct Attack Munition (JDAM) tail kit guides the bomb with movable surfaces that are steer the bomb to a target based on a Global Positioning Satellite (GPS) coordinate. There is also a family of weapons which combine GPS and laser capabilities to provide a Dual Mode weapon: a Laser Joint Direct Attack Munition (LJDAM). DAMTC is a capability, when combined with a JDAM converts the weapon into a LJDAM. The various components that comprise a LJDAM are procured individually under this budget to include but not limited to the DSU-38 series Precision Laser Guidance Set (PLGS). The DSU-38 is a Semi-Active Laser (SAL). These weapons are improved through the inclusion of additional sensors enabling these weapons to engage moving and stationary targets at impact and as an airburst weapon.

The DSU-42 Precision Laser Guidance Set (PLGS) is a modified kit that when fully integrated with the JDAM BLU-109 provides an active laser sensor that detects and characterizes laser designation angle of arrival and then transmits this information to the JDAM guidance kit. This modification will enable the BLU-109 to take advantage of an already demonstrated capability on the F/A-18 for other classes of weapons. The Non-Recurring Engineering (NRE) effort is required to modify, produce and certify the BLU-109 PLGS configuration. The certification will include verification and validation of the hardware to include: First Article Testing, Carrier Suitability, Captive Carriage and Flight Testing, Live Drops, Integrated Logistics Assessments, System Verification and Production Readiness Reviews.

All of the various weapons assemblies utilize a family of fuzes that when installed into the weapon provides a controlled initiation of the explosive fill when commanded through impact with a target or at a predetermined time. This predetermined time may occur above the ground for an explosion above the target or below the ground after impact to engage a target that is buried.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		P-1 Line Item Number / Title: 0145 / General Purpose Bombs
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>There is also funding included in this budget to address a myriad of subcomponents that are used in the assembly of the various configurations, including arming wires, adapters, lugs, nose plugs and other components required for All Up Round (AUR) configurations. This budget also funds production engineering, integrated logistics, and product improvement efforts to sustain production and ongoing enhancements to ensure the weapons remain relevant in the environments they are used.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition

P-1 Line Item Number / Title:
0145 / General Purpose Bombs

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / GP Bomb	P-5a, P-21		- / 2,028.719	- / 91.893	- / 101.895	- / 91.659	- / 40.366	- / 132.025
P-40	Total Gross/Weapon System Cost			- / 2,028.719	- / 91.893	- / 101.895	- / 91.659	- / 40.366	- / 132.025

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

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

Justification:

The FY 2017 funding request was reduced by \$7.8 million to account for the availability of prior year execution balances.

FY 2017 baseline funding is required to meet Naval Munitions Requirements Process (NMRP) inventory requirements. This model produces inventory requirements based on fleet operational scenarios and the number of weapons required to engage defined target sets. The budget also procures on-going technology integration to optimize the production and capability of products within the Direct Attack Weapons (DAW) portfolio. Inventory levels fluctuate year to year based on changes to the model as tactical targets are reassessed and weapons are expended in tactical operations and training. This variable requirement is assessed and a mean average is used buffer out the most extreme changes.

This budget supports critical Navy Title 10 war reserve/operational, training and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and OPNAV INST 8011.9 (Navy Munitions Requirements Process). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces. Test requirements support the verification, fielding, safety and quality assurance of Navy weapons and equipment throughout their life cycle.

Annual Non-Combat Expenditure Allowance (NCEA) prepares Naval Aviation units for deployment and is the largest cause of current and future General Purpose (GP) bombs procurement. NCEA utilization of GP bombs in support of Fleet readiness continues every year. Procurements are primarily designed to replenish the weapons used each year to achieve required readiness levels. Unlike procurement of capital assets, a large percentage of GP weapons are consumed in annual fleet training expenditures; thereby, reducing the ability to simply adjust procurements a year in response to budget reductions. Barring a reduction in fleet training expenditures and the correlating readiness degradation, any reductions in GP bombs procurements in a given year will have to be made up with increased procurements in the out years to restore inventory to a level adequate to support NCEA and fleet readiness.

OCO:

FY 2017 Overseas Contingency Operations (OCO) funding is required to replenish components that were expended in direct support of combat operations in theater. These operations were in support of Operation Inherent Resolve.

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Exhibit P-5, Cost Analysis: PB 2017 Navy											Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0145 / General Purpose Bombs					Item Number / Title [DODIC]: 1 / GP Bomb						
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (Units in Each)				-		-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				2,028.719		91.893		101.895		91.659		40.366		132.025			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				2,028.719		91.893		101.895		91.659		40.366		132.025			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				2,028.719		91.893		101.895		91.659		40.366		132.025			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-	
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-	

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - GP Bombs Cost																		
Recurring Cost																		
1.1.1) Q2191 BLU-111 ^(f)	3,574.37	7,530	26.915	-	-	-	-	-	-	-	-	-	6,765.41	934	6.319	6,765.41	934	6.319
1.1.2) Q2192 BLU-110 ^(f)	11,488.55	131	1.505	-	-	-	-	-	-	-	-	-	12,706.73	11	0.140	12,706.73	11	0.140
1.1.3) Q2199 BLU-109 ^(f)	28,194.26	906	25.544	25,995.00	77	2.002	-	-	-	-	-	-	29,868.00	46	1.374	29,868.00	46	1.374
<i>Subtotal: Recurring Cost</i>	-	-	53.964	-	-	2.002	-	-	-	-	-	-	-	-	7.833	-	-	7.833
<i>Subtotal: Hardware - GP Bombs Cost</i>	-	-	53.964	-	-	2.002	-	-	-	-	-	-	-	-	7.833	-	-	7.833
Hardware - Guided Bombs Cost Cost																		
Recurring Cost																		
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ^{(f) (1)}	11,629.94	6,145	71.466	13,920.00	1,677	23.344	14,198.40	960	13.630	14,482.36	742	10.746	14,981.65	259	3.880	14,611.39	1,001	14.626
2.1.2) Q2181 Laser Guided Bombs CCG (Raytheon) ^(f)	10,000.00	1,296	12.960	-	-	-	-	-	-	-	-	-	14,274.00	22	0.314	14,274.00	22	0.314
2.1.3) Q2181 Laser Guided Bombs CCG (Lockheed) ^(f)	-	-	19.440	-	-	-	-	-	-	-	-	-	14,274.00	22	0.314	14,274.00	22	0.314

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0145 / General Purpose Bombs	Item Number / Title [DODIC]: 1 / GP Bomb

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1.4) Q2187 Laser Guided Bombs AFG ⁽¹⁾	-	-	-	-	-	-	-	-	-	-	-	-	4,417.00	44	0.194	4,417.00	44	0.194
2.1.5) Q2186 Guided Bombs Tailkits ^{(1) (2)}	20,855.34	1,348	28.113	21,383.84	876	18.732	21,811.51	1,437	31.343	22,247.74	1,696	37.732	22,247.74	1,083	24.094	22,247.74	2,779	61.826
2.1.6) Q2220 BLU-109 Laser Capability DSU-42	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.7) Q2197 Bombs Subcomponents ⁽³⁾	-	-	2.836	-	-	1.225	-	-	-	-	-	1.300	-	-	-	-	-	1.300
<i>Subtotal: Recurring Cost</i>	-	-	134.816	-	-	43.301	-	-	44.973	-	-	49.778	-	-	28.796	-	-	78.574
Non Recurring Cost																		
2.2.1) Q2895 BLU-109 Laser Capability Non Recurring ⁽⁴⁾	-	-	-	-	-	-	-	-	20.980	-	-	23.701	-	-	-	-	-	23.701
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	20.980	-	-	23.701	-	-	-	-	-	23.701
<i>Subtotal: Hardware - Guided Bombs Cost</i>	-	-	134.816	-	-	43.301	-	-	65.953	-	-	73.479	-	-	28.796	-	-	102.275
Hardware - Fuzes Cost Cost																		
Recurring Cost																		
3.1.1) Q2196 FMU-143 ⁽¹⁾	1,524.20	5,330	8.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) Q2032 FMU-139 Electrical Fuze ^{(1) (5)}	1,128.71	43,710	49.336	2,027.21	3,746	7.594	2,193.19	4,028	8.834	2,237.05	5,009	11.205	2,237.05	991	2.217	2,237.05	6,000	13.422
3.1.3) Q2210 Hard Target Void Sensing Fuze ⁽¹⁾	-	-	-	22,312.29	50	1.116	19,493.33	450	8.772	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	57.460	-	-	8.710	-	-	17.606	-	-	11.205	-	-	2.217	-	-	13.422
Non Recurring Cost																		
3.2.1) Q2896 FUZE Non Recurring	-	-	-	-	-	24.330	-	-	7.066	-	-	-	-	-	-	-	-	-
3.2.2) Q2861 Production Acceptance Test & Evaluation FUZE ⁽⁶⁾	-	-	-	-	-	-	-	-	3.363	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	24.330	-	-	10.429	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0145 / General Purpose Bombs						Item Number / Title [DODIC]: 1 / GP Bomb						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Hardware - Fuzes Cost Cost</i>	-	-	57.460	-	-	33.040	-	-	28.035	-	-	11.205	-	-	2.217	-	-	13.422
Hardware - Acceptance Testing - Guided Bombs Cost																		
Recurring Cost																		
4.1.1) Q2860 Production Acceptance Test & Evaluation Guided Bombs	-	-	22.178	-	-	1.356	-	-	1.383	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	22.178	-	-	1.356	-	-	1.383	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Acceptance Testing - Guided Bombs Cost</i>	-	-	22.178	-	-	1.356	-	-	1.383	-	-	-	-	-	-	-	-	-
Hardware - Prior Years Cost																		
Non Recurring Cost																		
5.1.1) Prior Years Cumulative Funding	-	-	1,679.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	1,679.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Prior Years Cost</i>	-	-	1,679.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Integrated Logistics Cost																		
6.1) Q2800 GP Bombs ⁽⁷⁾	-	-	1.778	-	-	0.230	-	-	-	-	-	-	-	-	0.239	-	-	0.239
6.2) Q2800 Guided Bombs	-	-	2.212	-	-	0.305	-	-	0.309	-	-	0.313	-	-	-	-	-	0.313
6.3) Q2800 Fuzes	-	-	1.131	-	-	0.239	-	-	0.243	-	-	0.247	-	-	-	-	-	0.247
<i>Subtotal: Support - Integrated Logistics Cost</i>	-	-	5.121	-	-	0.774	-	-	0.552	-	-	0.560	-	-	0.239	-	-	0.799
Support - Production Engineering Cost																		
7.1) Q2830 GP Bombs ⁽⁸⁾	-	-	18.763	-	-	1.845	-	-	-	-	-	-	-	-	1.281	-	-	1.281
7.2) Q2830 Guided Bombs ⁽⁹⁾	-	-	24.157	-	-	3.025	-	-	3.000	-	-	3.385	-	-	-	-	-	3.385
7.3) Q2830 Fuzes ⁽¹⁰⁾	-	-	12.195	-	-	4.226	-	-	2.093	-	-	2.136	-	-	-	-	-	2.136
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	55.115	-	-	9.096	-	-	5.093	-	-	5.521	-	-	1.281	-	-	6.802
Support - Miscellaneous Support Cost																		
8.1) Q2850 Product Improvement Program (PIP)	-	-	17.173	-	-	1.610	-	-	0.152	-	-	0.155	-	-	-	-	-	0.155

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0145 / General Purpose Bombs	Item Number / Title [DODIC]: 1 / GP Bomb
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
8.2) Q2892 Non-Standard Items	-	-	1.076	-	-	0.237	-	-	0.241	-	-	0.245	-	-	-	-	-	0.245
8.3) Q2893 Renovation Components	-	-	1.044	-	-	0.223	-	-	0.227	-	-	0.230	-	-	-	-	-	0.230
8.4) Q2894 Gaging	-	-	1.082	-	-	0.254	-	-	0.259	-	-	0.264	-	-	-	-	-	0.264
<i>Subtotal: Support - Miscellaneous Support Cost</i>	-	-	20.375	-	-	2.324	-	-	0.879	-	-	0.894	-	-	-	-	-	0.894
Gross/Weapon System Cost	-	-	2,028.719	-	-	91.893	-	-	101.895	-	-	91.659	-	-	40.366	-	-	132.025

(†) indicates the presence of a P-5a

Footnotes:

- (1) FY15 unit price updated for actual.
- (2) Q2186 Guided Bombs Tailkits quantity increases between FY2016 and FY2017 are a result of the Naval Munitions Requirements Process (NMRP) model, which addresses fleet inventory requirements. ALL FY 2016 OCO was realigned to Guided Bomb Tailkits to address critical fleet shortfalls.
- (3) Q2197 Bomb sub-components was realigned to the Guided Bombs Hardware section. The components procured out of this are required for assembly of BLU-109, BLU-110 and BLU-111 bomb bodies into end item configuration weapons such as Free fall unguided bombs, Laser Guided Bombs (LGB) and Joint Direct Attack Munitions (JDAM).
- (4) Q2895 BLU-109 Laser Capability Non-recurring effort is required to modify, produce and certify the BLU-109 Precision Laser Guidance Set (PLGS) configuration.
- (5) Q2032 FMU-139 Electrical Fuze FY2015 and FY2016 unit cost is based on actual contract award with negotiated options.
- (6) Q2861 Production Acceptance Test & Evaluation FUZE HTVSF Production Acceptance Test and Evaluation (PAT&E) is required for deliveries that will occur in FY2016.
- (7) Q2800 GP Bombs Integrated Logistics funding realigned from PB16 to procure additional Guided Bomb Tailkits. No ILS baseline support required for FY2016, 2017, and 2018.
- (8) Q2830 GP Bombs Production Engineering funding realigned to procure additional Guided Bomb Tailkits and increase the Production Engineering in the Guided Bomb line based on increase support required for all Guided bomb procurements.
- (9) Q2830 Guided Bomb PES funding support increase is required for the Laser guided bomb CCG and AFG procurements.
- (10) Q2830 Fuzes FY2015 increase from PB16 is due to additional FMU-143 FUZE Sled Test requirements associated with new vendor qualification. Additionally, the engineering review associated with the increased penetration capability, and Serial Data Interface inclusion in the FMU-139D/B substantially increased the Production Engineering Support.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0145 / General Purpose Bombs					Item Number / Title [DODIC]: 1 / GP Bomb				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) Q2191 BLU-111 ^(†)		2012	General Dynamics BLU-111 / Garland, TX/MCAAP	C / FP	JMC Rock Island, IL	Jul 2014	Oct 2017	200	6,655.00	Y		Jun 2014
1.1.1) Q2191 BLU-111 ^(†)	✓	2017	General Dynamics BLU-111 / Garland, TX/MCAAP	C / FP	JMC Rock Island, IL	Jul 2017	Jul 2020	934	6,765.41	Y		Jun 2014
1.1.2) Q2192 BLU-110 ^(†)	✓	2017	General Dynamics BLU-110 / Garland TX/MCAAP	C / FP	JMC Rock Island, IL	Jul 2017	Jul 2019	11	12,706.73	Y		Mar 2014
1.1.3) Q2199 BLU-109 ^(†)		2012	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	May 2012	Nov 2016	301	32,746.21	Y		Dec 2009
1.1.3) Q2199 BLU-109 ^(†)		2013	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	May 2014	Oct 2017	106	31,250.00	Y		Dec 2013
1.1.3) Q2199 BLU-109 ^(†)		2014	National Forge BLU-109 / Irving, PA/MCAPP	C / FP	JMC Rock Island, IL	May 2014	Oct 2017	196	25,510.00	Y		Dec 2013
1.1.3) Q2199 BLU-109 ^(†)		2015 ⁽¹¹⁾	TBD / TBD	C / FP	JMC Rock Island, IL	Feb 2016	Jul 2019	77	25,995.00	Y		Dec 2014
1.1.3) Q2199 BLU-109 ^(†)	✓	2017	TBD / TBD	C / FP	JMC Rock Island, IL	Nov 2017	Nov 2020	46	29,868.00	Y		Dec 2014
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ^(†)		2015 ⁽¹²⁾	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Dec 2015	Jan 2017	1,677	13,920.00	Y		Oct 2008
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ^(†)		2016	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2016	Mar 2017	960	14,198.40	Y		Mar 2015
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ^(†)		2017	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2017	Mar 2018	742	14,482.36	Y		Mar 2015
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ^(†)	✓	2017	The Boeing Company / St. Charles, MO	SS / IDIQ	NAVAIR, Pax River, MD	Mar 2017	Mar 2018	259	14,981.65	Y		Mar 2015
2.1.2) Q2181 Laser Guided Bombs CCG (Raytheon) ^(†)	✓	2017	Raytheon Missile Systems LGB (Raytheon) / Tucson, AZ	C / IDIQ	Hill AFB, UT	Mar 2017	Nov 2018	22	14,274.00	Y		Jan 2014
2.1.3) Q2181 Laser Guided Bombs CCG (Lockheed) ^(†)	✓	2017	Lockheed Martin Corporation LGB / Archbald, PA	C / IDIQ	Hill AFB, UT	Mar 2017	Nov 2018	22	14,274.00	Y		Jan 2014
2.1.4) Q2187 Laser Guided Bombs AFG ^(†)	✓	2017	Raytheon Missile Systems LGB (Raytheon)AFG / Tucson, AZ	C / IDIQ	Hill AFB, UT	May 2017	Jan 2019	44	4,417.00	Y		Jan 2012
2.1.5) Q2186 Guided Bombs Tailkits ^(†)		2014 ⁽¹³⁾	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / UCA	Hill AFB, UT	Oct 2014	Oct 2015	1,348	20,854.99	Y		Oct 2013
2.1.5) Q2186 Guided Bombs Tailkits ^(†)		2015 ⁽¹⁴⁾	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / UCA	Hill AFB, UT	Sep 2015	Sep 2016	579	21,383.84	Y		Oct 2013

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0145 / General Purpose Bombs	Item Number / Title [DODIC]: 1 / GP Bomb
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.5) Q2186 Guided Bombs Tailkits ^(†)	✓	2015	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / UCA	Hill AFB, UT	Sep 2015	Sep 2016	297	21,383.84	Y		Oct 2013
2.1.5) Q2186 Guided Bombs Tailkits ^(†)		2016	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / IDIQ	Hill AFB, UT	Apr 2016	Apr 2017	992	21,811.51	Y		Oct 2014
2.1.5) Q2186 Guided Bombs Tailkits ^(†)	✓	2016	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / IDIQ	Hill AFB, UT	Apr 2016	Apr 2017	445	21,811.51	Y		Oct 2014
2.1.5) Q2186 Guided Bombs Tailkits ^(†)		2017	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / IDIQ	Hill AFB, UT	Apr 2017	Apr 2018	1,696	22,247.74	Y		Oct 2014
2.1.5) Q2186 Guided Bombs Tailkits ^(†)	✓	2017	The Boeing Company Guided Bombs (Tailkits) / St. Charles, MO	SS / IDIQ	Hill AFB, UT	Apr 2017	Apr 2018	1,083	22,247.74	Y		Oct 2014
3.1.1) Q2196 FMU-143 ^(†)		2011	ATK Tactical Systems (143) / JMC Rock Island, IL	C / FP	JMC Rock Island, IL	Sep 2012	Sep 2016	3,205	2,534.79	Y		Jun 2011
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)	✓	2013	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Sep 2014	Sep 2016	4,970	2,400.00	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)		2014	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2015	Mar 2017	2,178	2,027.21	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)	✓	2014	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Sep 2014	Sep 2016	527	2,400.00	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)	✓	2015	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2015	Mar 2017	3,746	2,027.21	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)		2016	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2016	Mar 2018	4,028	2,193.19	Y		Mar 2014
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)		2017	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2017	Mar 2019	5,009	2,237.05	Y		Mar 2015
3.1.2) Q2032 FMU-139 Electrical Fuze ^(†)	✓	2017	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	SS / FFP	NAVAIR, Pax River, MD	Mar 2017	Mar 2019	991	2,237.05	Y		Mar 2015
3.1.3) Q2210 Hard Target Void Sensing Fuze ^(†)		2015 ⁽¹⁵⁾	ATK Tactical Systems (HTVSF) / Keyser, WV	C / FFP	Eglin AFB, FL	Jul 2015	Jul 2016	50	22,312.29	Y		Nov 2012
3.1.3) Q2210 Hard Target Void Sensing Fuze ^(†)		2016 ⁽¹⁶⁾	ATK Tactical Systems (HTVSF) / Keyser, WV	C / FFP	Eglin AFB, FL	Jul 2016	Jul 2017	450	19,493.33	Y		Nov 2012

^(†) indicates the presence of a P-21

Footnotes:

⁽¹¹⁾ The contract award date slipped from Nov 2015 to Feb 2016 due to delay in source selection activities.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0145 / General Purpose Bombs	Item Number / Title [DODIC]: 1 / GP Bomb

- ⁽¹²⁾ Due to the delays in the requirements documentation and additional required reviews of the documentation the award date has slipped from June 2015 to December 2015. This will not affect the FY2016 contract award. USAF deliveries will occur during Navy production break.
- ⁽¹³⁾ The Secretary of Acquisition for the USAF denied the request to waive the Truth In Negotiations Act (TINA) requirement for the Guided bomb Tail kit contract. As a result, the USAF awarded a Undefinitized Contract Action (UCA) for the FY2014 procurement in Oct 2014 and the order will definitize by Jan 2016.
- ⁽¹⁴⁾ The USAF awarded a Undefinitized Contract Action (UCA) for the FY15 procurement in Nov 2015 and the order will definitize in Jan 2016 concurrently with the FY 14 UCA.
- ⁽¹⁵⁾ The Hard Target Void Sensing Fuze is an Air Force lead effort. The FY2015 LRIP contract awarded July 1, 2015.
- ⁽¹⁶⁾ FY2016 contract award updated from May 2016 to July 2016 to align with the FY2015 LRIP delivery schedule.

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Exhibit P-21, Production Schedule: PB 2017 Navy																							Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0145 / General Purpose Bombs										Item Number / Title [DODIC]: 1 / GP Bomb										
Cost Elements (Units in Each)						Fiscal Year 2012										Fiscal Year 2013										B A L A N C E				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012										Calendar Year 2013													
							O C T	N O V	D E C	J A N	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
1.1.1) Q2191 BLU-111																														
Prior Years Deliveries: 7330																														
	1	2012	NAVY	200 ⁽¹⁷⁾	-	200																							200	
✓	1	2017	NAVY	934	-	934																							934	
1.1.2) Q2192 BLU-110																														
Prior Years Deliveries: 131																														
✓	2	2017	NAVY	11	-	11																							11	
1.1.3) Q2199 BLU-109																														
Prior Years Deliveries: 303																														
	3	2012	NAVY	301 ⁽¹⁸⁾	-	301																							301	
	3	2013	NAVY	106 ⁽¹⁹⁾	-	106																							106	
	3	2014	NAVY	196	-	196																							196	
	4	2015	NAVY	77	-	77																							77	
✓	4	2017	NAVY	46	-	46																							46	
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ⁽¹⁾																														
Prior Years Deliveries: 6145																														
	5	2015	NAVY	1,677	-	1,677																							1,677	
	5	2016	NAVY	960	-	960																							960	
	5	2017	NAVY	742	-	742																							742	
✓	5	2017	NAVY	259	-	259																							259	
2.1.2) Q2181 Laser Guided Bombs CCG (Raytheon)																														
Prior Years Deliveries: 1296																														
✓	6	2017	NAVY	22	-	22																							22	
2.1.3) Q2181 Laser Guided Bombs CCG (Lockheed)																														
✓	7	2017	NAVY	22	-	22																							22	
2.1.4) Q2187 Laser Guided Bombs AFG																														
✓	8	2017	NAVY	44	-	44																							44	
2.1.5) Q2186 Guided Bombs Tailkits ⁽²⁾																														
	9	2014	NAVY	1,348 ⁽²⁰⁾	-	1,348																							1,348	
	9	2015	NAVY	579	-	579																							579	
✓	9	2015	NAVY	297	-	297																							297	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0145 / General Purpose Bombs **Item Number / Title [DODIC]:** 1 / GP Bomb

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2012												Fiscal Year 2013												B A L A N C E																																																																			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012												Calendar Year 2013																																																																														
							O C T	N O V	D E C	J A N	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																																																																		
	9	2016	NAVY	992	-	992																																992																																																											
✓	9	2016	NAVY	445	-	445																																445																																																											
	9	2017	NAVY	1,696	-	1,696																																1,696																																																											
✓	9	2017	NAVY	1,083	-	1,083																																1,083																																																											
3.1.1) Q2196 FMU-143																																																																																																	
Prior Years Deliveries: 2125																																																																																																	
	10	2011	NAVY	3,205	-	3,205																																3,205																																																											
3.1.2) Q2032 FMU-139 Electrical Fuze ⁽⁵⁾																																																																																																	
Prior Years Deliveries: 36035																																																																																																	
✓	11	2013	NAVY	4,970 (21)	-	4,970																															4,970																																																												
	11	2014	NAVY	2,178	-	2,178																																2,178																																																											
✓	11	2014	NAVY	527	-	527																																527																																																											
✓	11	2015	NAVY	3,746	-	3,746																																3,746																																																											
	11	2016	NAVY	4,028	-	4,028																																4,028																																																											
	11	2017	NAVY	5,009	-	5,009																																5,009																																																											
✓	11	2017	NAVY	991	-	991																																991																																																											
3.1.3) Q2210 Hard Target Void Sensing Fuze																																																																																																	
	12	2015	NAVY	50	-	50																																50																																																											
	12	2016	NAVY	450	-	450																																450																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>O C T</th><th>N O V</th><th>D E C</th><th>J A N</th><th>F E B</th><th>M A R</th><th>A P R</th><th>M A Y</th><th>J U N</th><th>J U L</th><th>A U G</th><th>S E P</th><th>O C T</th><th>N O V</th><th>D E C</th><th>J A N</th><th>F E B</th><th>M A R</th><th>A P R</th><th>M A Y</th><th>J U N</th><th>J U L</th><th>A U G</th><th>S E P</th> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>																																		O C T	N O V	D E C	J A N	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																																								
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																																																										

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0145 / General Purpose Bombs **Item Number / Title [DODIC]:** 1 / GP Bomb

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014													Fiscal Year 2015													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) Q2191 BLU-111																																	
Prior Years Deliveries: 7330																																	
	1	2012	NAVY	200 ⁽¹⁷⁾	-	200																							200				
✓	1	2017	NAVY	934	-	934																							934				
1.1.2) Q2192 BLU-110																																	
Prior Years Deliveries: 131																																	
✓	2	2017	NAVY	11	-	11																							11				
1.1.3) Q2199 BLU-109																																	
Prior Years Deliveries: 303																																	
	3	2012	NAVY	301 ⁽¹⁸⁾	-	301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	301				
	3	2013	NAVY	106 ⁽¹⁹⁾	-	106								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106				
	3	2014	NAVY	196	-	196								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	196				
	4	2015	NAVY	77	-	77																							77				
✓	4	2017	NAVY	46	-	46																							46				
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ⁽¹⁾																																	
Prior Years Deliveries: 6145																																	
	5	2015	NAVY	1,677	-	1,677																							1,677				
	5	2016	NAVY	960	-	960																							960				
	5	2017	NAVY	742	-	742																							742				
✓	5	2017	NAVY	259	-	259																							259				
2.1.2) Q2181 Laser Guided Bombs CCG (Raytheon)																																	
Prior Years Deliveries: 1296																																	
✓	6	2017	NAVY	22	-	22																							22				
2.1.3) Q2181 Laser Guided Bombs CCG (Lockheed)																																	
✓	7	2017	NAVY	22	-	22																							22				
2.1.4) Q2187 Laser Guided Bombs AFG																																	
✓	8	2017	NAVY	44	-	44																							44				
2.1.5) Q2186 Guided Bombs Tailkits ⁽²⁾																																	
	9	2014	NAVY	1,348 ⁽²⁰⁾	-	1,348																							1,348				
	9	2015	NAVY	579	-	579																							A - 579				
✓	9	2015	NAVY	297	-	297																							A - 297				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0145 / General Purpose Bombs **Item Number / Title [DODIC]:** 1 / GP Bomb

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014														Fiscal Year 2015														B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014														Calendar Year 2015														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
	9	2016	NAVY	992	-	992																										992			
✓	9	2016	NAVY	445	-	445																									445				
	9	2017	NAVY	1,696	-	1,696																									1,696				
✓	9	2017	NAVY	1,083	-	1,083																									1,083				
3.1.1) Q2196 FMU-143																																			
Prior Years Deliveries: 2125																																			
	10	2011	NAVY	3,205	-	3,205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,205				
3.1.2) Q2032 FMU-139 Electrical Fuze ⁽⁵⁾																																			
Prior Years Deliveries: 36035																																			
✓	11	2013	NAVY	4,970 (21)	-	4,970													A	-	-	-	-	-	-	-	-	-	-	4,970					
	11	2014	NAVY	2,178	-	2,178																									2,178				
✓	11	2014	NAVY	527	-	527													A	-	-	-	-	-	-	-	-	-	-	527					
✓	11	2015	NAVY	3,746	-	3,746																									3,746				
	11	2016	NAVY	4,028	-	4,028																									4,028				
	11	2017	NAVY	5,009	-	5,009																									5,009				
✓	11	2017	NAVY	991	-	991																									991				
3.1.3) Q2210 Hard Target Void Sensing Fuze																																			
	12	2015	NAVY	50	-	50																									50				
	12	2016	NAVY	450	-	450																									450				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0145 / General Purpose Bombs **Item Number / Title [DODIC]:** 1 / GP Bomb

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2016														Fiscal Year 2017														BALANCE			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
1.1.1) Q2191 BLU-111																																			
Prior Years Deliveries: 7330																																			
	1	2012	NAVY	200 ⁽¹⁷⁾	-	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200						
✓	1	2017	NAVY	934	-	934																							934						
1.1.2) Q2192 BLU-110																																			
Prior Years Deliveries: 131																																			
✓	2	2017	NAVY	11	-	11																							11						
1.1.3) Q2199 BLU-109																																			
Prior Years Deliveries: 303																																			
	3	2012	NAVY	301 ⁽¹⁸⁾	-	301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	3	2013	NAVY	106 ⁽¹⁹⁾	-	106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106						
	3	2014	NAVY	196	-	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	196						
	4	2015	NAVY	77	-	77																							77						
✓	4	2017	NAVY	46	-	46																							46						
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ⁽¹⁾																																			
Prior Years Deliveries: 6145																																			
	5	2015	NAVY	1,677	-	1,677																							420						
	5	2016	NAVY	960	-	960																							400						
	5	2017	NAVY	742	-	742																							742						
✓	5	2017	NAVY	259	-	259																							259						
2.1.2) Q2181 Laser Guided Bombs CCG (Raytheon)																																			
Prior Years Deliveries: 1296																																			
✓	6	2017	NAVY	22	-	22																							22						
2.1.3) Q2181 Laser Guided Bombs CCG (Lockheed)																																			
✓	7	2017	NAVY	22	-	22																							22						
2.1.4) Q2187 Laser Guided Bombs AFG																																			
✓	8	2017	NAVY	44	-	44																							44						
2.1.5) Q2186 Guided Bombs Tailkits ⁽²⁾																																			
	9	2014	NAVY	1,348 ⁽²⁰⁾	-	1,348	324	288	208	-	36	-	318	174															-						
	9	2015	NAVY	579	-	579	-	-	-	-	-	-	-	-	-	-	70	100	100	100	136	73							-						
✓	9	2015	NAVY	297	-	297	-	-	-	-	-	-	-	-	-	60	100	100	37										-						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Navy																							Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0145 / General Purpose Bombs										Item Number / Title [DODIC]: 1 / GP Bomb																											
Cost Elements (Units in Each)						Fiscal Year 2016										Fiscal Year 2017							BALANCE																				
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017																										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N		F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												
	9	2016	NAVY	992	-	992											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	82	82	82	83	83	83	498		
✓	9	2016	NAVY	445	-	445											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	172	170	103				-			
	9	2017	NAVY	1,696	-	1,696																																			1,696		
✓	9	2017	NAVY	1,083	-	1,083																																			1,083		
3.1.1) Q2196 FMU-143																																											
Prior Years Deliveries: 2125																																											
	10	2011	NAVY	3,205	-	3,205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.1.2) Q2032 FMU-139 Electrical Fuze (5)																																											
Prior Years Deliveries: 36035																																											
✓	11	2013	NAVY	4,970 (21)	-	4,970	-	-	-	-	-	-	-	-	-	-	700	800	818	818	917	917																					-
	11	2014	NAVY	2,178	-	2,178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	180	180	180	180	180	180	180											1,000	
✓	11	2014	NAVY	527	-	527	-	-	-	-	-	-	-	-	-	527																											-
✓	11	2015	NAVY	3,746	-	3,746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146	200	300	300	400	400	400												1,600		
	11	2016	NAVY	4,028	-	4,028																																				4,028	
	11	2017	NAVY	5,009	-	5,009																																				5,009	
✓	11	2017	NAVY	991	-	991																																				991	
3.1.3) Q2210 Hard Target Void Sensing Fuze																																											
	12	2015	NAVY	50	-	50	-	-	-	-	-	-	-	-	-	10	10	10	10	10																							-
	12	2016	NAVY	450	-	450										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	40	40	330	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0145 / General Purpose Bombs **Item Number / Title [DODIC]:** 1 / GP Bomb

Cost Elements (Units in Each)					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) Q2191 BLU-111																																	
Prior Years Deliveries: 7330																																	
	1	2012	NAVY	200 ⁽¹⁷⁾	-	200	200																						-				
✓	1	2017	NAVY	934	-	934	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	934				
1.1.2) Q2192 BLU-110																																	
Prior Years Deliveries: 131																																	
✓	2	2017	NAVY	11	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-				
1.1.3) Q2199 BLU-109																																	
Prior Years Deliveries: 303																																	
	3	2012	NAVY	301 ⁽¹⁸⁾	301	-																							-				
	3	2013	NAVY	106 ⁽¹⁹⁾	-	106	106																						-				
	3	2014	NAVY	196	-	196	196																						-				
	4	2015	NAVY	77	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-					
✓	4	2017	NAVY	46	-	46	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46					
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ⁽¹⁾																																	
Prior Years Deliveries: 6145																																	
	5	2015	NAVY	1,677	1,257	420	140	140	140																				-				
	5	2016	NAVY	960	560	400	80	80	80	80	80																		-				
	5	2017	NAVY	742	-	742	-	-	-	-	-	71	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61		-				
✓	5	2017	NAVY	259	-	259	-	-	-	-	-	86	86	87															-				
2.1.2) Q2181 Laser Guided Bombs CCG (Raytheon)																																	
Prior Years Deliveries: 1296																																	
✓	6	2017	NAVY	22	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-					
2.1.3) Q2181 Laser Guided Bombs CCG (Lockheed)																																	
✓	7	2017	NAVY	22	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-					
2.1.4) Q2187 Laser Guided Bombs AFG																																	
✓	8	2017	NAVY	44	-	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-					
2.1.5) Q2186 Guided Bombs Tailkits ⁽²⁾																																	
	9	2014	NAVY	1,348 ⁽²⁰⁾	1,348	-																							-				
	9	2015	NAVY	579	579	-																							-				
✓	9	2015	NAVY	297	297	-																							-				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0145 / General Purpose Bombs	Item Number / Title [DODIC]: 1 / GP Bomb
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021												BALANCE	
O C C #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
1.1.1) Q2191 BLU-111																															
Prior Years Deliveries: 7330																															
	1	2012	NAVY	200 ⁽¹⁷⁾	200	-																							-		
✓	1	2017	NAVY	934	-	934	-	-	-	-	-	-	-	-	-	200	200	200	200	134									-		
1.1.2) Q2192 BLU-110																															
Prior Years Deliveries: 131																															
✓	2	2017	NAVY	11	11	-																							-		
1.1.3) Q2199 BLU-109																															
Prior Years Deliveries: 303																															
	3	2012	NAVY	301 ⁽¹⁸⁾	301	-																							-		
	3	2013	NAVY	106 ⁽¹⁹⁾	106	-																							-		
	3	2014	NAVY	196	196	-																							-		
	4	2015	NAVY	77	77	-																							-		
✓	4	2017	NAVY	46	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.1.1) Q2200 Direct Attack Moving Target Capability DSU-38 (DAMTC) ⁽¹⁾																															
Prior Years Deliveries: 6145																															
	5	2015	NAVY	1,677	1,677	-																							-		
	5	2016	NAVY	960	960	-																							-		
	5	2017	NAVY	742	742	-																							-		
✓	5	2017	NAVY	259	259	-																							-		
2.1.2) Q2181 Laser Guided Bombs CCG (Raytheon)																															
Prior Years Deliveries: 1296																															
✓	6	2017	NAVY	22	22	-																							-		
2.1.3) Q2181 Laser Guided Bombs CCG (Lockheed)																															
✓	7	2017	NAVY	22	22	-																							-		
2.1.4) Q2187 Laser Guided Bombs AFG																															
✓	8	2017	NAVY	44	44	-																							-		
2.1.5) Q2186 Guided Bombs Tailkits ⁽²⁾																															
	9	2014	NAVY	1,348 ⁽²⁰⁾	1,348	-																							-		
	9	2015	NAVY	579	579	-																							-		
✓	9	2015	NAVY	297	297	-																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0145 / General Purpose Bombs
		Item Number / Title [DODIC]: 1 / GP Bomb

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	General Dynamics BLU-111 - Garland, TX/MCAAP	21,359	38,544	100,200	-	10	24	34	-	10	36	46
2	General Dynamics BLU-110 - Garland TX/MCAAP	12,222	21,300	55,296	-	9	24	33	-	11	36	47
3	National Forge BLU-109 - Irving, PA/MCAPP	1,344	2,232	6,480	-	12	24	36	-	8	36	44
4	TBD - TBD	-	-	-	-	12	24	36	-	8	36	44
5	The Boeing Company - St. Charles, MO	1,200	4,800	5,760	-	14	12	26	-	6	12	18
6	Raytheon Missile Systems LGB (Raytheon) - Tucson, AZ	1,800	4,800	14,400	-	7	20	27	-	-	-	-
7	Lockheed Martin Corporation LGB - Archbald, PA	1,728	4,500	36,000	-	7	20	27	-	-	-	-
8	Raytheon Missile Systems LGB (Raytheon)AFG - Tucson, AZ	1,800	4,800	14,400	-	7	20	27	-	-	-	-
9	The Boeing Company Guided Bombs (Tailkits) - St. Charles, MO	4,000	10,000	36,000	-	12	12	24	-	7	12	19
10	ATK Tactical Systems (143) - JMC Rock Island, IL	6,000	10,000	20,000	-	-	-	-	-	12	48	60
11	L-3 FUZING & ORDNANCE SYSTEMS INC - CINCINNATI, OH	6,000	10,000	20,000	-	-	-	-	-	6	24	30
12	ATK Tactical Systems (HTVSF) - Keyser, WV	166	773	992	-	10	12	22	-	10	12	22

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

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

Footnotes:

- (17) Due to program efficiencies, an additional 200 units were placed on contract in FY2014 utilizing the FY2012 funding to procure BLU-111's to meet inventory objectives.
- (18) National Forge produces BLU-109 bombs for both Navy and Air Force. The production rate for bombs is based on the total number of bombs in production collectively across types and services.
- (19) Fluctuations and gaps in delivery schedules for the BLU-109 are due to Multi-Service deliveries.
- (20) Fluctuations and gaps in delivery schedules for the Tailkits are due to Multi-Service deliveries.
- (21) Fluctuations and gaps in delivery schedules for the FMU-139 FUZES are due to Multi-Service deliveries.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition

P-1 Line Item Number / Title:
0151 / Airborne Rockets, All Types

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0204162N, 0206138M

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	784.785	79.146	77.137	65.759	8.860	74.619	91.140	87.670	90.209	92.018	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	784.785	79.146	77.137	65.759	8.860	74.619	91.140	87.670	90.209	92.018	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	784.785	79.146	77.137	65.759	8.860	74.619	91.140	87.670	90.209	92.018	Continuing	Continuing

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

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

Description:

Procurements are to establish an inventory of rocket/rocket components in accordance with the Naval Munitions Requirements process (NMRP) and to maintain those inventory levels as training and combat usage occurs as identified in the Total Munition Requirement (TMR). Production is for complete units/operationally configured units to satisfy the requirement of applicable specifications of Airborne Rockets, All types.

Rockets Hardware 2.75-inch and 5.00-inch rockets are employed by both rotary and fixed wing platforms across several mission areas. Current employment includes Close Air Support (CAS), Military Operations in Urban Terrain (MOUT), and counter-Fast Attack Craft/Fast Inshore Attack Craft (counter-FAC/FIAC) missions.

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

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

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition		P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0204162N, 0206138M
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>Product Improvement (PIP) provides for modifications and upgrades to products within Airborne Rockets, All types. Efforts include configuration changes involving production, engineering, manufacturing, installation and testing that increases system or combat effectiveness to extend the useful military life of an item, and/or to improve the item within the current performance envelope.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition

P-1 Line Item Number / Title:
0151 / Airborne Rockets, All Types

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0204162N, 0206138M

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Airborne Rockets, All Types	P-5a, P-21		- / 784.785	- / 79.146	- / 77.137	- / 65.759	- / 8.860	- / 74.619
P-40	Total Gross/Weapon System Cost			- / 784.785	- / 79.146	- / 77.137	- / 65.759	- / 8.860	- / 74.619

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
 FY 2017 baseline funding is required to procure 2.75-inch rocket components - to include rocket motors, warheads, Advanced Precision Kill Weapon System (APKWS) guidance sections, and rocket launchers - to enable low-cost area suppression as well as precision engagements from US Marine Corps (USMC) H-1 aircraft in low collateral damage Close Air Support (CAS) operations, and from US Navy (USN) H-60 aircraft to neutralize Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC) threats.

Baseline funding is also required to procure containers for all rocket components to support USN/USMC expeditionary concept of operations from CVN and L-Class surface combatants.

Additionally, FY 2017 baseline funding is required to address product improvements needed for components designed and first produced over 40 years ago as well as the production engineering and integrated logistics support needed for all 2.75-inch rocket components.

OCO:
 FY 2017 Overseas Contingency Operations (OCO) funding is required to replenish munitions and components that were expended in direct support of combat operations in theater. These operations were in support of Operation Inherent Resolve.

MK-66 rocket motors are needed for combat operations, and OCO funding will aid in the replenishment of rocket motor inventory levels. The MK-66 motor is used as the component motor in all 2.75-inch rocket configurations. With an increase in pre deployment training as well as combat operations, additional procurement is required to meet the needs of the warfighter and to ensure inventory is maintained.

The MK-152 warhead with MK-435 fuze is needed to permit the warfighter to engage the enemy at closer ranges, increasing accuracy with a safer, more reliable warhead. This will provide sufficient inventory to support the current OCO operational tempo with warheads providing greater lethality and reduced collateral damage.

Advanced Precision Kill Weapon System integration on MH-60R/S platforms is complete. Failure to replenish OCO expenditures will limit available inventory for an expanding user base and challenge the Navy's ability to effectively counter the FAC/FIAC threat.

OCO funding is also required for production engineering support of rocket components procured and produced to replenish OCO expenditures. Failure to replenish OCO rocket component expenditures will require USMC H-1 aircraft to employ more expensive weapons (i.e. Hellfire) to neutralize low-cost, soft/lightly armored targets and simultaneously challenge the ability of the USN H-60 fleet to effectively counter the FAC/FIAC threat.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1					P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types					Aggregated Items Title: Airborne Rockets, All Types										
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Rockets Hardware																				
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) (1)(†)	A		1,066.61	289,632	308.923	422.90	40,204	17.002	486.48	19,718	9.592	495.23	38,598	19.115	495.23	2,813	1.393	495.23	41,411	20.508
1.2) (Q5041) MK 71 ROCKET MOTOR	A		-	-	56.296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) (Q5042) MK 66 ROCKET MOTOR (MOD 6)	A		-	-	0.585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) (Q5200) SMOKEY SAM(†)	A		1,184.85	2,970	3.519	161.13	2,830	0.456	-	-	-	167.51	2,000	0.335	-	-	-	167.51	2,000	0.335
Subtotal: 1) Rockets Hardware			-	-	369.323	-	-	17.458	-	-	9.592	-	-	19.450	-	-	1.393	-	-	20.843
2) Rocket Warheads																				
2.1) (Q5030) WTU1/ B INERT WARHEAD (2)(†)	A		156.88	119,832	18.799	93.40	7,740	0.723	95.17	7,649	0.728	97.08	7,643	0.742	-	-	-	97.08	7,643	0.742
2.2) (Q5080) MK 146 HE WARHEAD(†)	A		18,431.82	1,100	20.275	-	-	-	-	-	-	1,669.57	541	0.903	-	-	-	1,669.57	541	0.903
2.3) (Q5090) MK 149 WARHEAD (3)(†)	A		22,968.57	509	11.691	-	-	-	-	-	-	599.79	1,490	0.894	-	-	-	599.79	1,490	0.894
2.4) (Q5897) WTU-11/ B WARHEAD(†)	A		-	-	1.025	-	-	-	-	-	-	434.11	500	0.217	-	-	-	434.11	500	0.217
2.5) (Q5898) M282 MULTI-PURPOSE PENETRATOR (MPP) (4)(†)	A		3,349.61	5,426	18.175	-	-	-	3,449.70	40	0.138	3,518.70	40	0.141	-	-	-	3,518.70	40	0.141
2.6) (Q5899) MK 152 WARHEAD(†)	A		1,385.79	50,284	69.683	1,567.26	3,665	5.744	1,598.61	3,325	5.315	1,630.58	100	0.163	1,630.58	2,444	3.985	1,630.58	2,544	4.148
Subtotal: 2) Rocket Warheads			-	-	139.648	-	-	6.467	-	-	6.181	-	-	3.060	-	-	3.985	-	-	7.045
3) Rocket Launchers																				
3.1) (Q5895) LAU-68 F/A (2.75") (5)(†)	A		19,439.15	1,405	27.312	17,560.29	50	0.878	17,897.89	48	0.859	18,255.85	49	0.895	18,255.85	53	0.968	18,255.85	102	1.863
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER (6)(†)	A		57,096.30	135	7.708	57,301.07	27	1.547	58,470.48	29	1.696	60,832.69	59	3.589	60,832.69	22	1.338	60,832.69	81	4.927
Subtotal: 3) Rocket Launchers			-	-	35.020	-	-	2.425	-	-	2.555	-	-	4.484	-	-	2.306	-	-	6.790
4) APKWS																				
4.1) (Q5896) APKWS G&C SECTIONS (7)(†)	A		27,999.57	4,680	131.038	28,169.00	1,624	45.747	28,704.21	1,834	52.643	29,278.30	1,020	29.864	29,278.30	40	1.171	29,278.30	1,060	31.035
Subtotal: 4) APKWS			-	-	131.038	-	-	45.747	-	-	52.643	-	-	29.864	-	-	1.171	-	-	31.035

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0151 / Airborne Rockets, All Types **Aggregated Items Title:** Airborne Rockets, All Types

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5) Other																				
5.1) (Q5871) MISCELLANEOUS ITEMS	A		-	-	7.546	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
5.2) (Q5870) CONTAINERS	A		-	-	21.370	-	-	3.590	-	-	0.992	-	-	1.176	-	-	-	-	-	1.176
Subtotal: 5) Other			-	-	28.916	-	-	3.690	-	-	1.092	-	-	1.276	-	-	-	-	-	1.276
6) (Q5800) Integrated Logistics Support (ILS)																				
6.1) ROCKET WARHEADS-ILS	A		-	-	3.195	-	-	0.170	-	-	0.172	-	-	0.175	-	-	-	-	-	0.175
6.2) ROCKET LAUNCHERS-ILS	A		-	-	0.534	-	-	0.088	-	-	0.101	-	-	0.103	-	-	-	-	-	0.103
6.3) APKWS-ILS	A		-	-	0.249	-	-	0.047	-	-	0.049	-	-	0.050	-	-	-	-	-	0.050
6.4) OTHER-ILS	A		-	-	0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) (Q5800) Integrated Logistics Support (ILS)			-	-	4.014	-	-	0.305	-	-	0.322	-	-	0.328	-	-	-	-	-	0.328
7) (Q5850) Product Improvement (PIP)																				
7.1) ROCKET MOTORS - PIP	A		-	-	-	-	-	-	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
7.2) ROCKET WARHEADS-PIP	A		-	-	13.539	-	-	0.377	-	-	0.200	-	-	0.204	-	-	-	-	-	0.204
7.3) ROCKET LAUNCHERS-PIP	A		-	-	0.013	-	-	0.007	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
7.4) APKWS-PIP	A		-	-	5.137	-	-	0.520	-	-	0.184	-	-	4.092	-	-	-	-	-	4.092
Subtotal: 7) (Q5850) Product Improvement (PIP)			-	-	18.689	-	-	0.904	-	-	0.388	-	-	4.300	-	-	-	-	-	4.300
8) (Q5830) Production Engineering Support (PES)																				
8.1) ROCKET MOTORS-PES	A		-	-	12.306	-	-	0.639	-	-	0.646	-	-	0.659	-	-	-	-	-	0.659
8.2) ROCKET WARHEADS-PES ⁽⁸⁾	A		-	-	25.890	-	-	0.710	-	-	2.916	-	-	0.686	-	-	-	-	-	0.686
8.3) ROCKET LAUNCHERS-PES	A		-	-	6.183	-	-	0.175	-	-	0.179	-	-	0.182	-	-	-	-	-	0.182
8.4) APKWS-PES	A		-	-	13.758	-	-	0.626	-	-	0.623	-	-	1.470	-	-	0.005	-	-	1.475
Subtotal: 8) (Q5830) Production Engineering Support (PES)			-	-	58.137	-	-	2.150	-	-	4.364	-	-	2.997	-	-	0.005	-	-	3.002
Total			-	-	784.785	-	-	79.146	-	-	77.137	-	-	65.759	-	-	8.860	-	-	74.619

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
 (†) indicates the presence of a P-5a

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types	Aggregated Items Title: Airborne Rockets, All Types

Footnotes:

- (1) (Q5040) MK 66 ROCKET MOTOR (MOD 4): Pricing is provided by the Army and incorporates other customer buys. The unit price fluctuates depending on the total procurement.
- (2) (Q5030) WTU1/B INERT WARHEAD: Pricing provided by the Army and incorporates other services' buys. Baseline unit cost is dependent on total quantities from the Army. WTU-1/B warheads are procured via competitive contract led by the Army.
- (3) (Q5090) MK 149 WARHEAD: Pricing provided by the Army and incorporates other services' buys.
- (4) (Q5898) M282 MULTI-PURPOSE PENETRATOR: Pricing provided by the Army and incorporates other services' buys.
- (5) (Q5895) LAU-68 F/A (2.75 inch): Unit cost may differ from the budget due to procurement of several components (such as launcher skin material, thermal coat material, safety switches, intervalometers and/or detent mechanisms) at economic order quantities by the prime to support budgeted launcher quantities.
- (6) (Q5900) LAU-61 G/A (2.75"): Unit cost may differ from the budget due to procurement of several components (such as launcher skin material, thermal coat material, safety switches, launcher electronics components and/or detent mechanisms) at economic order quantities by the prime to support budgeted launcher quantities. In addition, LAU-61 G/A increases above inflation in the outyears due to the increase in quantities, which was taken out of the MK-152 cost element between FY17-FY21.
- (7) (Q5896) APKWS G&C SECTIONS: Pricing is provided by the Navy and incorporates other customer buys. The unit price fluctuates depending on the total procurement.
- (8) ROCKET WARHEADS-PES: Increase above inflation due to the addition of FY16 Overseas Contingency Operations (OCO) funding. FY16 OCO is \$2.243M and FY16 Baseline is \$0.673M.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types					Aggregated Items: Airborne Rockets, All Types				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Rockets Hardware												
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2013	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2013	Nov 2014	10,431	690.13	Y		Oct 2008
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2013	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2013	Nov 2014	40,846	690.13	Y		Oct 2008
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2014	General Dynamics / Burlington, VT	SS / FP	Huntsville	Sep 2014	Nov 2015	16,866	415.02	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2014	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Sep 2014	Nov 2015	12,370	415.02	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2015	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Mar 2015	Jan 2017	36,288	422.90	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2015	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Mar 2015	Jan 2017	3,916	422.90	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2016	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2016	Nov 2017	16,262	486.48	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2016	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2016	Nov 2017	3,456	486.48	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}		2017	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2017	Nov 2018	38,598	495.23	Y		Oct 2013
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ^{(1)(t)}	✓	2017	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2017	Nov 2018	2,813	495.23	Y		Oct 2013
1.4) (Q5200) SMOKEY SAM		2014	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2014	Mar 2015	2,970	158.00	Y		
1.4) (Q5200) SMOKEY SAM		2015	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Nov 2014	Nov 2015	2,830	161.13	Y		
1.4) (Q5200) SMOKEY SAM		2017	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Nov 2016	Nov 2017	2,000	167.51	Y		
2) Rocket Warheads												
2.1) (Q5030) WTU1/B INERT WARHEAD ⁽²⁾		2013	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jul 2013	Jul 2014	31,696	81.39	Y		Oct 2008
2.1) (Q5030) WTU1/B INERT WARHEAD ⁽²⁾	✓	2013	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jul 2014	Jul 2015	26,813	68.92	Y		Oct 2008
2.1) (Q5030) WTU1/B INERT WARHEAD ⁽²⁾		2014 ⁽⁹⁾	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Dec 2014	Dec 2015	7,697	93.40	Y		Oct 2013
2.1) (Q5030) WTU1/B INERT WARHEAD ⁽²⁾	✓	2014	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Dec 2014	Dec 2015	941	93.40	Y		Oct 2013

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types					Aggregated Items: Airborne Rockets, All Types				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1) (Q5030) WTU1/B INERT WARHEAD (2)		2015	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Jun 2015	Jun 2016	7,740	93.40	Y		Oct 2013
2.1) (Q5030) WTU1/B INERT WARHEAD (2)		2016	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2016	May 2017	7,649	95.17	Y		Oct 2013
2.1) (Q5030) WTU1/B INERT WARHEAD (2)		2017	General Dynamics / Burlington, VT	SS / FFP	Huntsville	May 2017	May 2018	7,643	97.08	Y		Oct 2013
2.2) (Q5080) MK 146 HE WARHEAD		2017	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jul 2017	Jul 2018	541	1,669.57	Y		
2.3) (Q5090) MK 149 WARHEAD (3)		2012	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Apr 2012	Aug 2014	509	1,168.96	Y		Oct 2008
2.3) (Q5090) MK 149 WARHEAD (3)		2017	General Dynamics / Burlington, VT	SS / FFP	Huntsville	Apr 2017	Aug 2019	1,490	599.79	Y		Oct 2013
2.4) (Q5897) WTU-11/B WARHEAD		2017	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	May 2017	May 2018	500	434.11	Y		
2.5) (Q5898) M282 MULTI-PURPOSE PENETRATOR (MPP) (4)	✓	2013	General Dynamics (10) / Burlington, VT	C / FFP	Huntsville	Mar 2013	Mar 2014	1,362	3,280.00	Y		Oct 2008
2.5) (Q5898) M282 MULTI-PURPOSE PENETRATOR (MPP) (4)	✓	2016	General Dynamics (10) / Burlington, VT	C / FFP	Huntsville	Apr 2016	Apr 2017	40	3,449.70	Y		Oct 2013
2.5) (Q5898) M282 MULTI-PURPOSE PENETRATOR (MPP) (4)		2017	General Dynamics (10) / Burlington, VT	C / FFP	Huntsville	Apr 2017	Apr 2018	40	3,518.70	Y		Oct 2013
2.6) (Q5899) MK 152 WARHEAD		2013	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jan 2013	Jan 2014	1,460	1,369.27	Y		
2.6) (Q5899) MK 152 WARHEAD	✓	2013	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jan 2013	Jan 2014	17,879	1,369.27	Y		
2.6) (Q5899) MK 152 WARHEAD	✓	2014	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Dec 2013	Jan 2015	6,369	1,538.04	Y		
2.6) (Q5899) MK 152 WARHEAD		2015	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2015	Jan 2016	648	1,567.26	Y		
2.6) (Q5899) MK 152 WARHEAD	✓	2015	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2015	Jan 2016	3,017	1,567.26	Y		
2.6) (Q5899) MK 152 WARHEAD	✓	2016	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jan 2016	Jan 2017	3,325	1,598.61	Y		
2.6) (Q5899) MK 152 WARHEAD		2017	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jan 2017	Jan 2018	100	1,630.58	Y		

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types					Aggregated Items: Airborne Rockets, All Types				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.6) (Q5899) MK 152 WARHEAD	✓	2017	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Jan 2017	Jan 2018	2,444	1,630.58	Y		
3) Rocket Launchers												
3.1) (Q5895) LAU-68 F/A (2.75") ⁽⁵⁾		2013	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Aug 2013	Aug 2014	135	16,918.52	Y		Apr 2009
3.1) (Q5895) LAU-68 F/A (2.75") ⁽⁵⁾	✓	2013	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Aug 2013	Aug 2014	83	17,590.36	Y		Apr 2009
3.1) (Q5895) LAU-68 F/A (2.75") ⁽⁵⁾	✓	2014	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Sep 2014	Sep 2015	770	17,219.78	Y		Apr 2009
3.1) (Q5895) LAU-68 F/A (2.75") ⁽⁵⁾		2015 ⁽¹¹⁾	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Sep 2015	Sep 2016	50	17,560.29	Y		Apr 2009
3.1) (Q5895) LAU-68 F/A (2.75") ⁽⁵⁾		2016	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Mar 2016	Mar 2017	48	17,897.89	Y		Sep 2015
3.1) (Q5895) LAU-68 F/A (2.75") ⁽⁵⁾		2017	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Mar 2017	Mar 2018	49	18,255.85	Y		Sep 2015
3.1) (Q5895) LAU-68 F/A (2.75") ⁽⁵⁾	✓	2017	Arnold Defense / St. Louis, MO	C / FFP	NSWC	Mar 2017	Mar 2018	53	18,255.85	Y		Sep 2015
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(6)(†)}		2014	Arnold Defense / St. Louis, MO	SS / FFP	NSWC	Jul 2014	Mar 2016	113	56,212.35	Y		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(6)(†)}		2015 ⁽¹²⁾	Arnold Defense / St. Louis, MO	SS / FFP	NSWC	Sep 2015	Mar 2017	27	57,301.07	Y		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(6)(†)}		2016	Arnold Defense / St. Louis, MO	SS / FFP	NSWC	Apr 2016	Mar 2018	29	58,470.48	Y		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(6)(†)}		2017	Arnold Defense / St. Louis, MO	SS / FFP	NSWC	Apr 2017	Mar 2019	59	60,832.69	Y		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ^{(6)(†)}	✓	2017	Arnold Defense / St. Louis, MO	SS / FFP	NSWC	Apr 2017	Mar 2019	22	60,832.69	Y		
4) APKWS												
4.1) (Q5896) APKWS G&C SECTIONS ^{(7)(†)}		2014	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR HQ	Mar 2014	Oct 2014	1,302	27,291.00	Y		Oct 2012
4.1) (Q5896) APKWS G&C SECTIONS ^{(7)(†)}	✓	2014	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR HQ	Mar 2014	Oct 2014	70	27,291.00	Y		Oct 2012
4.1) (Q5896) APKWS G&C SECTIONS ^{(7)(†)}		2015	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR HQ	Dec 2014	Nov 2015	1,537	28,169.00	Y		Oct 2012
4.1) (Q5896) APKWS G&C SECTIONS ^{(7)(†)}	✓	2015	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR HQ	Dec 2014	Nov 2015	87	28,169.00	Y		Oct 2012

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types	Aggregated Items: Airborne Rockets, All Types
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.1) (Q5896) APKWS G&C SECTIONS ^{(7)(t)}		2016	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR HQ	May 2016	Apr 2017	1,774	28,704.21	Y		Sep 2015
4.1) (Q5896) APKWS G&C SECTIONS ^{(7)(t)}	✓	2016	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR HQ	May 2016	Apr 2017	60	28,704.21	Y		Sep 2015
4.1) (Q5896) APKWS G&C SECTIONS ^{(7)(t)}		2017	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR HQ	Jan 2017	Dec 2017	1,020	29,278.30	Y		Sep 2015
4.1) (Q5896) APKWS G&C SECTIONS ^{(7)(t)}	✓	2017	BAE SYSTEMS / NASHUA, NH	SS / FFP	NAVAIR HQ	Jan 2017	Dec 2017	40	29,278.30	Y		Sep 2015

^(t) indicates the presence of a P-21

Footnotes:

- ⁽⁹⁾ (Q5030) WTU1/B INERT WARHEAD: WTU-1/B warheads are procured via a competitive contract led by the Army.
- ⁽¹⁰⁾ (Q5898) M282 MULTI-PURPOSE PENETRATOR: MSR will be met with purchases from the Army.
- ⁽¹¹⁾ Q5895 LAU-68 F/A (2.75 inch) DIGITAL ROCKET LAUNCHER: Contract award delayed due to longer than expected cost analysis. Contract awarded September 2015.
- ⁽¹²⁾ (Q5900) LAU-61 G/A (2.75 inch) DIGITAL ROCKET LAUNCHER: Contract award delayed due to longer than expected cost analysis. Contract awarded September 2015.

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Exhibit P-21, Production Schedule: PB 2017 Navy																											Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1												P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types										Aggregated Items: Airborne Rockets, All Types												
Items (Units in Thousands)						Fiscal Year 2012												Fiscal Year 2013										B A L A N C E						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012												Calendar Year 2013															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L	A U G	S E P			
1) Rockets Hardware																																		
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																		
Prior Years Deliveries: 209119																																		
	1	2013	NAVY	10.431	-	10.431																						A -	-	-	-	-	-	10.431
✓	1	2013	NAVY	40.846	-	40.846																						A -	-	-	-	-	-	40.846
	1	2014	NAVY	16.866	-	16.866																												16.866
✓	1	2014	NAVY	12.370	-	12.370																												12.370
	1	2015	NAVY	36.288	-	36.288																												36.288
✓	1	2015	NAVY	3.916	-	3.916																												3.916
	1	2016	NAVY	16.262	-	16.262																												16.262
✓	1	2016	NAVY	3.456	-	3.456																												3.456
	1	2017	NAVY	38.598	-	38.598																												38.598
✓	1	2017	NAVY	2.813	-	2.813																												2.813
3) Rocket Launchers																																		
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁶⁾																																		
Prior Years Deliveries: 22																																		
	2	2014	NAVY	.113	-	.113																												.113
	2	2015	NAVY	.027	-	.027																												.027
	2	2016	NAVY	.029	-	.029																												.029
	2	2017	NAVY	.059	-	.059																												.059
✓	2	2017	NAVY	.022	-	.022																												.022
4) APKWS																																		
4.1) (Q5896) APKWS G&C SECTIONS ⁽⁷⁾																																		
Prior Years Deliveries: 3308																																		
	3	2014	NAVY	1.302	-	1.302																												1.302
✓	3	2014	NAVY	.070	-	.070																												.070
	3	2015	NAVY	1.537	-	1.537																												1.537
✓	3	2015	NAVY	.087	-	.087																												.087
	3	2016	NAVY	1.774	-	1.774																												1.774
✓	3	2016	NAVY	.060	-	.060																												.060
	3	2017	NAVY	1.020	-	1.020																												1.020
✓	3	2017	NAVY	.040	-	.040																												.040
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0151 / Airborne Rockets, All Types **Aggregated Items:** Airborne Rockets, All Types

Items <i>(Units in Thousands)</i>						Fiscal Year 2014													Fiscal Year 2015													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1) Rockets Hardware																																	
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																	
Prior Years Deliveries: 209119																																	
	1	2013	NAVY	10.431	-	10.431	-	-	-	-	-	-	-	-	-	-	-	-	.869	.869	.869	.869	.869	.869	.869	.869	.869	.870	.870	.870			
✓	1	2013	NAVY	40.846	-	40.846	-	-	-	-	-	-	-	-	-	-	-	-	3.403	3.403	3.403	3.403	3.403	3.403	3.403	3.404	3.404	3.405	3.405	3.405	3.405		
	1	2014	NAVY	16.866	-	16.866												A -	-	-	-	-	-	-	-	-	-	-	-	16.866			
✓	1	2014	NAVY	12.370	-	12.370												A -	-	-	-	-	-	-	-	-	-	-	-	12.370			
	1	2015	NAVY	36.288	-	36.288																								36.288			
✓	1	2015	NAVY	3.916	-	3.916																								3.916			
	1	2016	NAVY	16.262	-	16.262																								16.262			
✓	1	2016	NAVY	3.456	-	3.456																								3.456			
	1	2017	NAVY	38.598	-	38.598																								38.598			
✓	1	2017	NAVY	2.813	-	2.813																								2.813			
3) Rocket Launchers																																	
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁶⁾																																	
Prior Years Deliveries: 22																																	
	2	2014	NAVY	.113	-	.113												A -	-	-	-	-	-	-	-	-	-	-	-	.113			
	2	2015	NAVY	.027	-	.027																							A -	.027			
	2	2016	NAVY	.029	-	.029																								.029			
	2	2017	NAVY	.059	-	.059																								.059			
✓	2	2017	NAVY	.022	-	.022																								.022			
4) APKWS																																	
4.1) (Q5896) APKWS G&C SECTIONS ⁽⁷⁾																																	
Prior Years Deliveries: 3308																																	
	3	2014	NAVY	1.302	-	1.302												A -	-	-	-	-	-	-	-	-	-	-	-	.109			
✓	3	2014	NAVY	.070	-	.070												A -	-	-	-	-	-	-	-	-	-	-	-	.070			
	3	2015	NAVY	1.537	-	1.537																								1.537			
✓	3	2015	NAVY	.087	-	.087																								.087			
	3	2016	NAVY	1.774	-	1.774																								1.774			
✓	3	2016	NAVY	.060	-	.060																								.060			
	3	2017	NAVY	1.020	-	1.020																								1.020			
✓	3	2017	NAVY	.040	-	.040																								.040			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0151 / Airborne Rockets, All Types **Aggregated Items:** Airborne Rockets, All Types

Items <i>(Units in Thousands)</i>				Fiscal Year 2016														Fiscal Year 2017														BALANCE			
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEP T PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
1) Rockets Hardware																																			
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																			
Prior Years Deliveries: 209119																																			
	1	2013	NAVY	10.431	9.561	.870	.870																						-						
✓	1	2013	NAVY	40.846	37.441	3.405	3.405																						-						
	1	2014	NAVY	16.866	-	16.866	-	1.406	1.406	1.406	1.406	1.406	1.406	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	-						
✓	1	2014	NAVY	12.370	-	12.370	-	1.030	1.030	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	-							
	1	2015	NAVY	36.288	-	36.288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.024	3.024	3.024	3.024	3.024	3.024	3.024	9.072						
✓	1	2015	NAVY	3.916	-	3.916	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.326	.326	.326	.326	.326	.326	.326	.981						
	1	2016	NAVY	16.262	-	16.262	-							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	16.262							
✓	1	2016	NAVY	3.456	-	3.456	-							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	3.456							
	1	2017	NAVY	38.598	-	38.598	-																				A -	38.598							
✓	1	2017	NAVY	2.813	-	2.813	-																			A -	2.813								
3) Rocket Launchers																																			
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁶⁾																																			
Prior Years Deliveries: 22																																			
	2	2014	NAVY	.113	-	.113	-	-	-	-	-	-	.009	.009	.009	.009	.009	.009	.009	.010	.010	.010	.010	.010	.010	.010	.010	-							
	2	2015	NAVY	.027	-	.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.002	.002	.002	.002	.002	.002	.013						
	2	2016	NAVY	.029	-	.029	-							A -	-	-	-	-	-	-	-	-	-	-	-	-	.029								
	2	2017	NAVY	.059	-	.059	-																			A -	.059								
✓	2	2017	NAVY	.022	-	.022	-																			A -	.022								
4) APKWS																																			
4.1) (Q5896) APKWS G&C SECTIONS ⁽⁷⁾																																			
Prior Years Deliveries: 3308																																			
	3	2014	NAVY	1.302	1.302	-	-																					-							
✓	3	2014	NAVY	.070	.070	-	-																					-							
	3	2015	NAVY	1.537	-	1.537	-	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	.128	-							
✓	3	2015	NAVY	.087	-	.087	-	.087																				-							
	3	2016	NAVY	1.774	-	1.774	-							A -	-	-	-	-	-	-	-	-	-	.148	.148	.148	.148	.886							
✓	3	2016	NAVY	.060	-	.060	-							A -	-	-	-	-	-	-	-	-	.060				-								
	3	2017	NAVY	1.020	-	1.020	-																			A -	1.020								
✓	3	2017	NAVY	.040	-	.040	-																			A -	.040								
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0151 / Airborne Rockets, All Types **Aggregated Items:** Airborne Rockets, All Types

Items <i>(Units in Thousands)</i>					Fiscal Year 2018												Fiscal Year 2019												BALANCE		
OC	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG	SEP
1) Rockets Hardware																															
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																															
Prior Years Deliveries: 209119																															
	1	2013	NAVY	10.431	10.431	-																							-		
✓	1	2013	NAVY	40.846	40.846	-																							-		
	1	2014	NAVY	16.866	16.866	-																							-		
✓	1	2014	NAVY	12.370	12.370	-																							-		
	1	2015	NAVY	36.288	27.216	9.072	3.024	3.024	3.024																				-		
✓	1	2015	NAVY	3.916	2.935	.981	.327	.327	.327																				-		
	1	2016	NAVY	16.262	-	16.262	-	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.357										-			
✓	1	2016	NAVY	3.456	-	3.456	-	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288										-			
	1	2017	NAVY	38.598	-	38.598	-	-	-	-	-	-	-	-	-	-	-	-	3.217	3.217	3.217	3.217	3.217	3.217	3.216	3.216	3.216	3.216	3.216		
✓	1	2017	NAVY	2.813	-	2.813	-	-	-	-	-	-	-	-	-	-	-	-	.234	.234	.234	.234	.234	.234	.234	.234	.235	.235	.235		
3) Rocket Launchers																															
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁶⁾																															
Prior Years Deliveries: 22																															
	2	2014	NAVY	.113	.113	-																							-		
	2	2015	NAVY	.027	.014	.013	.002	.002	.003	.003	.003																		-		
	2	2016	NAVY	.029	-	.029	-	-	-	-	.002	.002	.002	.002	.002	.002	.002	.003	.003	.003	.003	.003						-			
	2	2017	NAVY	.059	-	.059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.005	.005	.005	.005	.005	.005	.024		
✓	2	2017	NAVY	.022	-	.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.001	.001	.002	.002	.002	.002	.010		
4) APKWS																															
4.1) (Q5896) APKWS G&C SECTIONS ⁽⁷⁾																															
Prior Years Deliveries: 3308																															
	3	2014	NAVY	1.302	1.302	-																							-		
✓	3	2014	NAVY	.070	.070	-																							-		
	3	2015	NAVY	1.537	1.537	-																							-		
✓	3	2015	NAVY	.087	.087	-																							-		
	3	2016	NAVY	1.774	.888	.886	.148	.148	.148	.148	.147	.147																-			
✓	3	2016	NAVY	.060	.060	-																							-		
	3	2017	NAVY	1.020	-	1.020	-	-	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	.085	-			
✓	3	2017	NAVY	.040	-	.040	-	-	.040																				-		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0151 / Airborne Rockets, All Types **Aggregated Items:** Airborne Rockets, All Types

Items <i>(Units in Thousands)</i>					Fiscal Year 2020													Fiscal Year 2021												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
1) Rockets Hardware																																
1.1) (Q5040) MK 66 ROCKET MOTOR (MOD 4) ⁽¹⁾																																
Prior Years Deliveries: 209119																																
	1	2013	NAVY	10.431	10.431	-																							-			
✓	1	2013	NAVY	40.846	40.846	-																							-			
	1	2014	NAVY	16.866	16.866	-																							-			
✓	1	2014	NAVY	12.370	12.370	-																							-			
	1	2015	NAVY	36.288	36.288	-																							-			
✓	1	2015	NAVY	3.916	3.916	-																							-			
	1	2016	NAVY	16.262	16.262	-																							-			
✓	1	2016	NAVY	3.456	3.456	-																							-			
	1	2017	NAVY	38.598	35.382	3.216	3.216																						-			
✓	1	2017	NAVY	2.813	2.578	.235	.235																						-			
3) Rocket Launchers																																
3.2) (Q5900) LAU-61 G/A (2.75-Inch) DIGITAL ROCKET LAUNCHER ⁽⁶⁾																																
Prior Years Deliveries: 22																																
	2	2014	NAVY	.113	.113	-																							-			
	2	2015	NAVY	.027	.027	-																							-			
	2	2016	NAVY	.029	.029	-																							-			
	2	2017	NAVY	.059	.035	.024	.005	.005	.004	.005	.005																		-			
✓	2	2017	NAVY	.022	.012	.010	.002	.002	.002	.002	.002																		-			
4) APKWS																																
4.1) (Q5896) APKWS G&C SECTIONS ⁽⁷⁾																																
Prior Years Deliveries: 3308																																
	3	2014	NAVY	1.302	1.302	-																							-			
✓	3	2014	NAVY	.070	.070	-																							-			
	3	2015	NAVY	1.537	1.537	-																							-			
✓	3	2015	NAVY	.087	.087	-																							-			
	3	2016	NAVY	1.774	1.774	-																							-			
✓	3	2016	NAVY	.060	.060	-																							-			
	3	2017	NAVY	1.020	1.020	-																							-			
✓	3	2017	NAVY	.040	.040	-																							-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0151 / Airborne Rockets, All Types	Aggregated Items: Airborne Rockets, All Types
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	General Dynamics - Burlington, VT	3,600	300,000	552,000	-	-	-	-	-	8	18	26
2	Arnold Defense - St. Louis, MO	9	142	285	-	6	-	6	-	7	23	30
3	BAE SYSTEMS - NASHUA, NH	200	1,000	10,000	-	-	-	-	-	4	11	15

"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 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	605.190	23.757	19.802	8.152	-	8.152	14.070	11.464	13.890	11.855	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	605.190	23.757	19.802	8.152	-	8.152	14.070	11.464	13.890	11.855	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	605.190	23.757	19.802	8.152	-	8.152	14.070	11.464	13.890	11.855	Continuing	Continuing

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

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

Description:

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

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

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition

P-1 Line Item Number / Title:
0155 / Machine Gun Ammunition

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Machine Gun Ammunition	P-5a, P-21		- / 605.190	- / 23.757	- / 19.802	- / 8.152	- / -	- / 8.152
P-40	Total Gross/Weapon System Cost			- / 605.190	- / 23.757	- / 19.802	- / 8.152	- / -	- / 8.152

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

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

Justification:
FY2017 baseline funding is required to support 20MM TP requirements. Provides procurement of 20MM ammunition that supports various aircraft gun systems for several Type/Model/Series (T/M/S) aircraft. The decrease in funding from FY16 to FY17 is attributed to reduced funding for 20MM HEI and 25MM TP/HEI based on sufficient inventories and projected deliveries.

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition	Item Number / Title [DODIC]: 1 / Machine Gun Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	605.190	23.757	19.802	8.152	-	8.152
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	605.190	23.757	19.802	8.152	-	8.152
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	605.190	23.757	19.802	8.152	-	8.152

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Machine Gun Ammunition Cost																		
Recurring Cost																		
1.1.1) (Q4010) 20MM LINKLESS, TP ^(†) (1)	17.42	12,062,666	210.074	10.24	404,394	4.141	10.44	181,609	1.896	-	-	-	-	-	-	-	-	-
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)	35.06	3,509,439	123.024	21.70	594,193	12.894	22.14	509,078	11.271	-	-	-	-	-	-	-	-	-
1.1.3) (Q4060) 20MM LINKED, TP ^(†) (2)	29.39	3,487,273	102.475	-	-	-	-	-	-	16.73	321,578	5.380	-	-	-	16.73	321,578	5.380
1.1.4) (Q4070) 20MM LINKED, HEI	112.39	673,448	75.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) (Q4080) 20MM LINKLESS, TP-T ^(†) (3)	16.62	875,545	14.551	-	-	-	16.54	96,735	1.600	-	-	-	-	-	-	-	-	-
1.1.6) (Q4090) 25MM LINKLESS, TP ^(†)	17.99	587,723	10.574	-	-	-	19.59	117,406	2.300	-	-	-	-	-	-	-	-	-
1.1.7) (Q4150) 25MM LINKLESS, HEI ^(†)	56.71	305,870	17.346	40.12	99,700	4.000	-	-	-	-	-	-	-	-	-	-	-	-
1.1.8) (Q4200) INERT ROUND ^(†)	30.66	25,371	0.778	20.24	4,940	0.100	20.24	4,940	0.100	20.65	4,842	0.100	-	-	-	20.65	4,842	0.100
<i>Subtotal: Recurring Cost</i>	-	-	554.512	-	-	21.135	-	-	17.167	-	-	5.480	-	-	-	-	-	5.480
<i>Subtotal: Hardware - Machine Gun Ammunition Cost</i>	-	-	554.512	-	-	21.135	-	-	17.167	-	-	5.480	-	-	-	-	-	5.480
Support - Product Improvement Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition						Item Number / Title [DODIC]: 1 / Machine Gun Ammunition					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1) (Q4850) Machine Gun Ammunition	-	-	10.558	-	-	0.663	-	-	0.674	-	-	0.686	-	-	-	-	-	0.686
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	10.558	-	-	0.663	-	-	0.674	-	-	0.686	-	-	-	-	-	0.686
Support - Integrated Logistics Cost																		
3.1) (Q4800) Machine Gun Ammunition	-	-	7.473	-	-	0.624	-	-	0.632	-	-	0.638	-	-	-	-	-	0.638
<i>Subtotal: Support - Integrated Logistics Cost</i>	-	-	7.473	-	-	0.624	-	-	0.632	-	-	0.638	-	-	-	-	-	0.638
Support - Production Engineering Cost																		
4.1) (Q4830) Machine Gun Ammunition	-	-	32.647	-	-	1.335	-	-	1.329	-	-	1.348	-	-	-	-	-	1.348
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	32.647	-	-	1.335	-	-	1.329	-	-	1.348	-	-	-	-	-	1.348
Gross/Weapon System Cost	-	-	605.190	-	-	23.757	-	-	19.802	-	-	8.152	-	-	-	-	-	8.152

(†) indicates the presence of a P-5a

Footnotes:

- (1) [(Q4010) 20MM LINKLESS, TP]: FY2016 through FY2021 funding reflects procurement of items every other year to obtain the most economical buys. FY2015 procurement reflects execution as previously appropriated for the new requirement for the AH-1 to go from a linked ammunition system to a linkless ammunition handling system.
- (2) [(Q4060) 20MM LINKED, TP]: FY2017 through FY2021 funding reflects procurement of items every other year to obtain the most economical buys.
- (3) [(Q4080) 20MM LINKLESS, TP-T]: FY2015 through FY2021 funding reflects procurement of items every other year to obtain the most economical buys.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition					Item Number / Title [DODIC]: 1 / Machine Gun Ammunition				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) (Q4010) 20MM LINKLESS, TP ^(†)	✓	2013	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Sep 2013	Jul 2014	699,000	9.87	Y		Sep 2008
1.1.1) (Q4010) 20MM LINKLESS, TP ^(†)		2014	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2014	Feb 2016	390,547	10.05	Y		Sep 2013
1.1.1) (Q4010) 20MM LINKLESS, TP ^(†)		2015	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2015	Jul 2016	404,394	10.24	Y		Sep 2013
1.1.1) (Q4010) 20MM LINKLESS, TP ^(†)		2016	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2016	Apr 2017	181,609	10.44	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)		2014	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2014	Jan 2016	422,535	21.30	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)	✓	2014	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2014	Jul 2016	388,826	21.30	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)		2015	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2015	Jul 2016	434,147	21.70	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)	✓	2015	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Jul 2015	Jul 2016	160,046	21.70	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)		2016	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2016	Apr 2017	346,341	22.14	Y		Sep 2013
1.1.2) (Q4050) 20MM LINKLESS, HEI ^(†)	✓	2016	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2016	Apr 2017	162,737	22.14	Y		Sep 2013
1.1.3) (Q4060) 20MM LINKED, TP ^(†)		2017	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2017	Apr 2018	321,578	16.73	Y		Sep 2013
1.1.5) (Q4080) 20MM LINKLESS, TP-T ^(†)		2014	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOISJMC ROCK ISLAND, ILLINOIS	Jul 2014	Feb 2016	145,065	15.91	Y		Sep 2013
1.1.5) (Q4080) 20MM LINKLESS, TP-T ^(†)		2016	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOISJMC ROCK ISLAND, ILLINOIS	Apr 2016	Apr 2017	96,735	16.54	Y		Sep 2013
1.1.6) (Q4090) 25MM LINKLESS, TP ^(†)		2016	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2016	Apr 2017	117,406	19.59	Y		Sep 2013
1.1.7) (Q4150) 25MM LINKLESS, HEI ^(†)		2013	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Aug 2013	Jul 2015	27,868	36.68	Y		Sep 2008
1.1.7) (Q4150) 25MM LINKLESS, HEI ^(†)	✓	2013	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Aug 2013	Sep 2015	40,894	36.68	Y		Sep 2008
1.1.7) (Q4150) 25MM LINKLESS, HEI ^(†)		2015	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Mar 2015	Mar 2016	99,700	40.12	Y		Sep 2013

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition	Item Number / Title [DODIC]: 1 / Machine Gun Ammunition
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.8) (Q4200) INERT ROUND ^(†)		2015	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Oct 2015	Oct 2016	4,940	20.24	Y		Sep 2013
1.1.8) (Q4200) INERT ROUND ^(†)		2016	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Aug 2016	Aug 2017	4,940	20.24	Y		Sep 2013
1.1.8) (Q4200) INERT ROUND ^(†)		2017	GENERAL DYNAMICS OTS/ATK / MARION, IL / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND, ILLINOIS	Apr 2017	Apr 2018	4,842	20.65	Y		Sep 2013

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy																							Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition										Item Number / Title [DODIC]: 1 / Machine Gun Ammunition										
Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2015										Fiscal Year 2016										B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R		A P R	M A Y	J U N	J U L	A U G
1.1.1) (Q4010) 20MM LINKLESS, TP ⁽¹⁾																														
Prior Years Deliveries: 10973119																														
✓	1	2013	NAVY	699.000	262.125	436.875	87.375	87.375	87.375	87.375	87.375																		-	
	1	2014	NAVY	390.547 (4)	-	390.547	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.054	39.054	39.054	39.055	39.055	39.055	39.055	39.055	78.110
	1	2015	NAVY	404.394	-	404.394								A -	-	-	-	-	-	-	-	-	-	-	-	-	33.700	33.700	33.700	303.294
	1	2016	NAVY	181.609	-	181.609																							181.609	
1.1.2) (Q4050) 20MM LINKLESS, HEI																														
Prior Years Deliveries: 2698078																														
	2	2014	NAVY	422.535 (5)	-	422.535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.412	38.412	38.412	38.412	38.412	38.412	38.412	38.412	38.412	76.826
✓	2	2014	NAVY	388.826	-	388.826	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.348	35.346	35.348	282.784
	2	2015	NAVY	434.147	-	434.147								A -	-	-	-	-	-	-	-	-	-	-	-	-	36.178	36.179	36.179	325.611
✓	2	2015	NAVY	160.046	-	160.046								A -	-	-	-	-	-	-	-	-	-	-	-	13.337	13.337	13.337	120.035	
	2	2016	NAVY	346.341	-	346.341																					A -	-	-	346.341
✓	2	2016	NAVY	162.737	-	162.737																					A -	-	-	162.737
1.1.3) (Q4060) 20MM LINKED, TP ⁽²⁾																														
Prior Years Deliveries: 3487273																														
	3	2017	NAVY	321.578	-	321.578																								321.578
1.1.5) (Q4080) 20MM LINKLESS, TP-T ⁽³⁾																														
Prior Years Deliveries: 730480																														
	4	2014	NAVY	145.065	-	145.065	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.085	12.085	12.085	12.090	12.090	12.090	12.090	12.090	48.360	
	4	2016	NAVY	96.735	-	96.735																						A -	-	96.735
1.1.6) (Q4090) 25MM LINKLESS, TP																														
Prior Years Deliveries: 587723																														
	5	2016	NAVY	117.406	-	117.406																								117.406
1.1.7) (Q4150) 25MM LINKLESS, HEI																														
Prior Years Deliveries: 237108																														
	6	2013	NAVY	27.868	-	27.868	-	-	-	-	-	-	-	-	3.483	3.483	3.483	3.483	3.483	3.483	3.483	3.483	3.483	3.487					-	
✓	6	2013	NAVY	40.894	-	40.894	-	-	-	-	-	-	-	-	-	-	6.815	6.815	6.815	6.815	6.815	6.815	6.819						-	
	6	2015	NAVY	99.700	-	99.700																								-
1.1.8) (Q4200) INERT ROUND																														
Prior Years Deliveries: 25371																														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition	Item Number / Title [DODIC]: 1 / Machine Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P					
	7	2015	NAVY	4.940	-	4.940												A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.940		
	7	2016	NAVY	4.940	-	4.940																											A	-	-	4.940
	7	2017	NAVY	4.842	-	4.842																													4.842	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition	Item Number / Title [DODIC]: 1 / Machine Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2017														Fiscal Year 2018										BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
1.1.1) (Q4010) 20MM LINKLESS, TP ⁽¹⁾																															
Prior Years Deliveries: 10973119																															
✓	1	2013	NAVY	699.000	699.000	-																							-		
	1	2014	NAVY	390.547 (4)	312.437	78.110	39.055	39.055																					-		
	1	2015	NAVY	404.394	101.100	303.294	33.700	33.700	33.700	33.699	33.699	33.699	33.699	33.699	33.699														-		
	1	2016	NAVY	181.609	-	181.609	-	-	-	-	-	-	15.134	15.134	15.134	15.134	15.134	15.134	15.134	15.134	15.134	12.352	-	-	48.185				-		
1.1.2) (Q4050) 20MM LINKLESS, HEI																															
Prior Years Deliveries: 2698078																															
	2	2014	NAVY	422.535 (5)	345.709	76.826	38.413	38.413																					-		
✓	2	2014	NAVY	388.826	106.042	282.784	35.348	35.348	35.348	35.348	35.348	35.348	35.348	35.348	35.348														-		
	2	2015	NAVY	434.147	108.536	325.611	36.179	36.179	36.179	36.179	36.179	36.179	36.179	36.179	36.179														-		
✓	2	2015	NAVY	160.046	40.011	120.035	13.337	13.337	13.337	13.337	13.337	13.337	13.337	13.337	13.338	13.338													-		
	2	2016	NAVY	346.341	-	346.341	-	-	-	-	-	-	28.861	28.861	28.861	28.862	28.862	28.862	28.862	28.862	28.862	28.862	28.862	28.862	28.862	28.862	28.862	28.862	-		
✓	2	2016	NAVY	162.737	-	162.737	-	-	-	-	-	-	13.561	13.561	13.561	13.561	13.561	13.561	13.561	13.561	13.562	13.562	13.562	13.562	13.562	13.562	13.562	13.562	-		
1.1.3) (Q4060) 20MM LINKED, TP ⁽²⁾																															
Prior Years Deliveries: 3487273																															
	3	2017	NAVY	321.578	-	321.578																							-		
																													26.798		
1.1.5) (Q4080) 20MM LINKLESS, TP-T ⁽³⁾																															
Prior Years Deliveries: 730480																															
	4	2014	NAVY	145.065	96.705	48.360	12.090	12.090	12.090	12.090																			-		
	4	2016	NAVY	96.735	-	96.735	-	-	-	-	-	-	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.061	8.064	-		
1.1.6) (Q4090) 25MM LINKLESS, TP																															
Prior Years Deliveries: 587723																															
	5	2016	NAVY	117.406	-	117.406	-	-	-	-	-	-	9.783	9.783	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	-		
1.1.7) (Q4150) 25MM LINKLESS, HEI																															
Prior Years Deliveries: 237108																															
	6	2013	NAVY	27.868	27.868	-																							-		
✓	6	2013	NAVY	40.894	40.894	-																							-		
	6	2015	NAVY	99.700	99.700	-																							-		
1.1.8) (Q4200) INERT ROUND																															
Prior Years Deliveries: 25371																															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0155 / Machine Gun Ammunition **Item Number / Title [DODIC]:** 1 / Machine Gun Ammunition

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018													
							O C T	N O V	D E C	J A N	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	
	7	2015	NAVY	4.940	-	4.940	4.940																									-
	7	2016	NAVY	4.940	-	4.940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	2017	NAVY	4.842	-	4.842																									-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0155 / Machine Gun Ammunition **Item Number / Title [DODIC]:** 1 / Machine Gun Ammunition

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) (Q4010) 20MM LINKLESS, TP ⁽¹⁾																																	
Prior Years Deliveries: 10973119																																	
✓	1	2013	NAVY	699.000	699.000	-																							-				
	1	2014	NAVY	390.547 (4)	390.547	-																							-				
	1	2015	NAVY	404.394	404.394	-																							-				
	1	2016	NAVY	181.609	181.609	-																							-				
1.1.2) (Q4050) 20MM LINKLESS, HEI																																	
Prior Years Deliveries: 2698078																																	
	2	2014	NAVY	422.535 (5)	422.535	-																							-				
✓	2	2014	NAVY	388.826	388.826	-																							-				
	2	2015	NAVY	434.147	434.147	-																							-				
✓	2	2015	NAVY	160.046	160.046	-																							-				
	2	2016	NAVY	346.341	346.341	-																							-				
✓	2	2016	NAVY	162.737	162.737	-																							-				
1.1.3) (Q4060) 20MM LINKED, TP ⁽²⁾																																	
Prior Years Deliveries: 3487273																																	
	3	2017	NAVY	321.578	160.788	160.790	26.798	26.798	26.798	26.798	26.798	26.798	26.800																-				
1.1.5) (Q4080) 20MM LINKLESS, TP-T ⁽³⁾																																	
Prior Years Deliveries: 730480																																	
	4	2014	NAVY	145.065	145.065	-																							-				
	4	2016	NAVY	96.735	96.735	-																							-				
1.1.6) (Q4090) 25MM LINKLESS, TP																																	
Prior Years Deliveries: 587723																																	
	5	2016	NAVY	117.406	117.406	-																							-				
1.1.7) (Q4150) 25MM LINKLESS, HEI																																	
Prior Years Deliveries: 237108																																	
	6	2013	NAVY	27.868	27.868	-																							-				
✓	6	2013	NAVY	40.894	40.894	-																							-				
	6	2015	NAVY	99.700	99.700	-																							-				
1.1.8) (Q4200) INERT ROUND																																	
Prior Years Deliveries: 25371																																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy																						Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition										Item Number / Title [DODIC]: 1 / Machine Gun Ammunition															
Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019											Fiscal Year 2020											B A L A N C E							
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019														Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
	7	2015	NAVY	4.940	4.940	-																													-
	7	2016	NAVY	4.940	4.940	-																													-
	7	2017	NAVY	4.842	4.842	-																													-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0155 / Machine Gun Ammunition
		Item Number / Title [DODIC]: 1 / Machine Gun Ammunition

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	500,000	2,350,000	3,350,000	-	-	-	-	6	7	12	19
2	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	125,000	1,250,000	2,000,000	-	-	-	-	6	7	12	19
3	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	200,000	800,000	1,200,000	-	-	-	-	6	7	12	19
4	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	5,000	100,000	272,000	-	-	-	-	6	7	12	19
5	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	5,400	100,000	272,000	-	-	-	-	6	7	12	19
6	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	5,400	100,000	272,000	-	-	-	-	6	6	12	18
7	GENERAL DYNAMICS OTS/ ATK - MARION, IL / LAKE CITY, MO	540	100,000	272,000	-	-	-	-	6	7	12	19

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

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

Footnotes:

⁽⁴⁾ (Q4010) [20MM LINKLESS, TP]: Items procured every other year in order to obtain the most economical buys do not have a negative impact on the production line due to most configurations using common components.

⁽⁵⁾ (Q4050) [20MM LINKLESS, HEI]: Production rate values are in the thousands. Max production note reflects more accurate data. Production rate has not changed.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0160 / Practice Bombs
---	---

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	791.600	28.101	39.365	41.873	-	41.873	52.057	52.419	53.328	54.397	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	791.600	28.101	39.365	41.873	-	41.873	52.057	52.419	53.328	54.397	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	791.600	28.101	39.365	41.873	-	41.873	52.057	52.419	53.328	54.397	Continuing	Continuing

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

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

Description:

The purpose of the Practice Bombs budget is to procure a variety of practice bombs as a low cost alternative to expenditures of live bombs for training. The practice bombs support training for aviators flying various Navy and Marine Corps aircraft. The munitions procured through this PE/BLI are procured by the Joint Munitions Command, the Single Manager for Conventional Ammunition, with the exception of the Laser Guided Training Round, which is procured by a NAVAIR contract.

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

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0160 / Practice Bombs
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Practice Bombs	P-5a, P-21		- / 791.600	- / 28.101	- / 39.365	- / 41.873	- / -	- / 41.873
P-40	Total Gross/Weapon System Cost			- / 791.600	- / 28.101	- / 39.365	- / 41.873	- / -	- / 41.873

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

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

Justification:

The decrease in FY2017 funding of \$0.012M for Practice Bombs is required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY2017 funds the program's base requirements. The increase in FY2017 funding is for replenishment of inventories where training rounds expenditure has outpaced procurement. The training munitions requirements are based on the needs of the Fleet Aviation Training and Tactical Squadrons and are updated with actual expenditures on annual basis. The munitions are essential in training and retaining weapons delivery proficiency. The annual disbursement of training munitions is done via a Non-Combat Expenditure Allocation (NCEA) and provides the individual units with an allocation under which they plan their annual training syllabuses. Additionally, training/inert munitions support the development, fielding, safety, and quality assurance of Navy munitions and equipment throughout their life cycle.

These munitions support the individual and collective training of Active and Reserve Component forces. The annual expenditures of practice stores prepares Naval Aviation units for deployment and is the largest driver of current and future munitions procurement. Procurements are primarily designed to replenish the practice bombs weapons used each year to achieve required readiness levels. Unlike procurement of capital assets, a large percentage of weapons are consumed in annual fleet training expenditures; thereby reducing the ability to simply slide procurements a year in response to budget reductions. Barring a reduction in fleet training expenditures and the correlating readiness degradation, any reductions in practice bomb procurements in a given year will be addressed through increased procurements in the out years to restore inventory to a level adequate to support NCEA and fleet readiness.

This budget supports critical Navy Title 10 war reserve/operational, training, and test requirements as identified within the DoD Instruction 3000.04 (Munitions Requirements Process) and OPNAV INST 8011.9 (Navy Munitions Requirements Process). Practice Bomb procurements provide the Fleet subscale and/or inert stores in lieu of significantly more expensive full scale and/or high explosive stores procured with General Purpose Bombs funding; thereby reducing the overall cost in achieving fleet training readiness levels.

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Exhibit P-5, Cost Analysis: PB 2017 Navy						Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0160 / Practice Bombs			Item Number / Title [DODIC]: 1 / Practice Bombs		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			791.600	28.101	39.365	41.873	-	41.873
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			791.600	28.101	39.365	41.873	-	41.873
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			791.600	28.101	39.365	41.873	-	41.873
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Practice Bombs Cost																		
Recurring Cost																		
1.1.1) Q1010 MK-76 ^(†) (1)	93.29	87,723	8.184	-	-	-	58.45	132,044	7.718	59.61	156,970	9.357	-	-	-	59.61	156,970	9.357
1.1.2) Q1040 MK-82 INERT ^(†)	2,254.11	8,768	19.764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) Q1050 BLU-109 INERT ^(†) (2)	-	-	-	-	-	-	24,072.00	80	1.926	24,545.00	110	2.700	-	-	-	24,545.00	110	2.700
<i>Subtotal: Recurring Cost</i>	-	-	27.948	-	-	-	-	-	9.644	-	-	12.057	-	-	-	-	-	12.057
<i>Subtotal: Hardware - Practice Bombs Cost</i>	-	-	27.948	-	-	-	-	-	9.644	-	-	12.057	-	-	-	-	-	12.057
Hardware - Precision Guided Practice Bombs Cost																		
Recurring Cost																		
2.1.1) Q1300 LGTR ^(†) (3)	3,050.83	33,206	101.306	3,440.00	6,747	23.210	3,489.20	7,410	25.855	3,558.00	7,300	25.973	-	-	-	3,558.00	7,300	25.973
<i>Subtotal: Recurring Cost</i>	-	-	101.306	-	-	23.210	-	-	25.855	-	-	25.973	-	-	-	-	-	25.973
<i>Subtotal: Hardware - Precision Guided Practice Bombs Cost</i>	-	-	101.306	-	-	23.210	-	-	25.855	-	-	25.973	-	-	-	-	-	25.973
Hardware - Miscellaneous Cost																		
Recurring Cost																		
3.1.1) Q1062 Miscellaneous Items	-	-	3.114	-	-	0.557	-	-	0.944	-	-	0.962	-	-	-	-	-	0.962

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0160 / Practice Bombs	Item Number / Title [DODIC]: 1 / Practice Bombs

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
---	------------------------

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	3.114	-	-	0.557	-	-	0.944	-	-	0.962	-	-	-	-	-	0.962
<i>Subtotal: Hardware - Miscellaneous Cost</i>	-	-	3.114	-	-	0.557	-	-	0.944	-	-	0.962	-	-	-	-	-	0.962
Hardware - Prior Years Cost																		
Non Recurring Cost																		
4.1.1) Prior Years ⁽⁴⁾	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Prior Years Cost</i>	-	-	635.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Integrated Logistics Cost																		
5.1) Q1800 Practice Bombs ILS	-	-	0.302	-	-	0.065	-	-	0.066	-	-	0.067	-	-	-	-	-	0.067
5.2) Q1800 Precision Guided Practice Bombs ILS ⁽⁵⁾	-	-	0.514	-	-	0.168	-	-	0.120	-	-	0.122	-	-	-	-	-	0.122
<i>Subtotal: Support - Integrated Logistics Cost</i>	-	-	0.816	-	-	0.233	-	-	0.186	-	-	0.189	-	-	-	-	-	0.189
Support - Production Engineering Cost																		
6.1) Q1830 Practice Bombs PES	-	-	4.202	-	-	1.021	-	-	1.032	-	-	1.043	-	-	-	-	-	1.043
6.2) Q1830 Precision Guided Practice Bombs PES	-	-	10.145	-	-	0.843	-	-	0.851	-	-	0.866	-	-	-	-	-	0.866
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	14.347	-	-	1.864	-	-	1.883	-	-	1.909	-	-	-	-	-	1.909
Support - Miscellaneous Support Cost																		
7.1) Q1850 Product Improvement Program (PIP)	-	-	7.185	-	-	1.965	-	-	0.576	-	-	0.501	-	-	-	-	-	0.501
7.2) Q1894 Gaging	-	-	1.289	-	-	0.272	-	-	0.277	-	-	0.282	-	-	-	-	-	0.282
<i>Subtotal: Support - Miscellaneous Support Cost</i>	-	-	8.474	-	-	2.237	-	-	0.853	-	-	0.783	-	-	-	-	-	0.783
Gross/Weapon System Cost	-	-	791.600	-	-	28.101	-	-	39.365	-	-	41.873	-	-	-	-	-	41.873

(†) indicates the presence of a P-5a

Footnotes:

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0160 / Practice Bombs	Item Number / Title [DODIC]: 1 / Practice Bombs
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>(1) MK-76 FY2015 funding was re-aligned to Laser Guided Training Round (LGTR) to address an existing fleet shortfall. Increased procurement levels from FY2016 to FY2017 are designed to restore the MK-76 inventory to levels required to support fleet training.</p> <p>(2) BLU-109 INERT supports a newly established inventory baseline for fleet expenditures to meet Non-Combat Expenditure Allocation (NCEA) requirements. FY2017 funds to baseline program. The increase in FY2017 funding and quantity is for the replenishment of training round inventories where expenditures outpaced procurement and delivery. Procurement is needed to restore inventory levels in support of NCEA minimum requirements.</p> <p>(3) LGTR unit cost has been updated with actuals. The FY2015 LGTR increase from PB16 was due to the additional quantities gained through the re-alignment of the MK-76 funding.</p> <p>(4) Prior Years increased from PB16 to add the BDU-48 total cost. The last procurement was in FY2009 with deliveries completing in FY2011.</p> <p>(5) Precision Guided Practice Bombs ILS FY2015 funding was updated for actuals; increase was due to update of the Technical Data Package in support of the LGTR containers.</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0160 / Practice Bombs	Item Number / Title [DODIC]: 1 / Practice Bombs
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) Q1010 MK-76 ^(†)		2013 ⁽⁶⁾	Delfasco, LLC / Afton, TN	C / FFP	JMC, Rock Island, IL	Sep 2015	Jan 2018	87,723	93.29	Y		Feb 2013
1.1.1) Q1010 MK-76 ^(†)		2016 ⁽⁷⁾	Delfasco, LLC / Afton, TN	C / FFP	JMC, Rock Island, IL	May 2016	May 2018	132,044	58.45	Y		Feb 2013
1.1.1) Q1010 MK-76 ^(†)		2017	Delfasco, LLC / Afton, TN	C / FFP	JMC, Rock Island, IL	May 2017	May 2019	156,970	59.61	Y		Feb 2013
1.1.2) Q1040 MK-82 INERT ^(†)		2013	General Dynamics / Garland, TX / MCAAP	SS / FP	JMC, Rock Island, IL	Apr 2013	Apr 2016	1,229	2,469.00	Y		Nov 2012
1.1.2) Q1040 MK-82 INERT ^(†)		2014	General Dynamics / Garland, TX / MCAAP	SS / FP	JMC, Rock Island, IL	Apr 2014	Apr 2017	738	2,521.04	Y		Nov 2013
1.1.3) Q1050 BLU-109 INERT ^(†)		2016	TBD / TBD	C / FP	JMC, Rock Island, IL	May 2016	May 2019	80	24,072.00	Y		Apr 2015
1.1.3) Q1050 BLU-109 INERT ^(†)		2017	TBD / TBD	C / FP	JMC, Rock Island, IL	May 2017	May 2020	110	24,545.00	Y		Apr 2015
2.1.1) Q1300 LGTR ^(†)		2013	Lockheed Martin Corporation LGTR / Archbald, PA	SS / FP	NAVAIR, Pax River, MD	Nov 2013	Apr 2015	4,321	3,391.34	Y		Apr 2013
2.1.1) Q1300 LGTR ^(†)		2014	Lockheed Martin Corporation LGTR / Archbald, PA	SS / FP	NAVAIR, Pax River, MD	Mar 2014	Jan 2016	8,029	3,334.00	Y		Apr 2013
2.1.1) Q1300 LGTR ^(†)		2015	Lockheed Martin Corporation LGTR / Archbald, PA	SS / FP	NAVAIR, Pax River, MD	Mar 2015	Jan 2017	6,747	3,440.00	Y		Apr 2013
2.1.1) Q1300 LGTR ^(†)		2016	Lockheed Martin Corporation LGTR / Archbald, PA	SS / FP	NAVAIR, Pax River, MD	Mar 2016	Aug 2017	7,410	3,489.20	Y		Apr 2013
2.1.1) Q1300 LGTR ^(†)		2017	Lockheed Martin Corporation LGTR / Archbald, PA	SS / FP	NAVAIR, Pax River, MD	Mar 2017	Aug 2018	7,300	3,558.00	Y		Feb 2015

^(†) indicates the presence of a P-21

Footnotes:

⁽⁶⁾ The FY2013 Contract awarded in February 2014 originally; the delivery date slipped due to protest. The contract was planned to re-award in September 2014; however, another protest was submitted. The FY2013 MK-76 unit cost is based on Joint Munitions Command estimated pricing, which includes initial production line startup cost and first article testing. The award date on the P5a can not be updated due to system limitations, actual award date was Jan 7, 2016.

⁽⁷⁾ The FY2016 option year one unit costs are projected to be lower due to anticipated economies of scale achieved with other service procurements on the same contract. MK-76 is procured through the Single Manager for Conventional Ammunition process and contracted through the Joint Munitions Command.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0160 / Practice Bombs **Item Number / Title [DODIC]:** 1 / Practice Bombs

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2013												Fiscal Year 2014												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1.1.1) Q1010 MK-76 ⁽¹⁾																															
	1	2013	NAVY	87.723	-	87.723																						87.723			
	1	2016	NAVY	132.044	-	132.044																						132.044			
	1	2017	NAVY	156.970	-	156.970																						156.970			
1.1.2) Q1040 MK-82 INERT																															
Prior Years Deliveries: 6801																															
	2	2013	NAVY	1,229 (6)	-	1,229																						1,229			
	2	2014	NAVY	.738	-	.738																						.738			
1.1.3) Q1050 BLU-109 INERT ⁽²⁾																															
	3	2016	NAVY	.080 ⁽⁹⁾	-	.080																						.080			
	3	2017	NAVY	.110	-	.110																						.110			
2.1.1) Q1300 LGTR ⁽³⁾																															
Prior Years Deliveries: 20856																															
	4	2013	NAVY	4,321 (10)	-	4,321																						4,321			
	4	2014	NAVY	8.029	-	8.029																						8.029			
	4	2015	NAVY	6.747	-	6.747																						6.747			
	4	2016	NAVY	7.410	-	7.410																						7.410			
	4	2017	NAVY	7.300	-	7.300																						7.300			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0160 / Practice Bombs **Item Number / Title [DODIC]:** 1 / Practice Bombs

Cost Elements <i>(Units in Thousands)</i>				Fiscal Year 2015														Fiscal Year 2016												BALANCE			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
1.1.1) Q1010 MK-76 ⁽¹⁾																																	
	1	2013	NAVY	87.723	-	87.723																							87.723				
	1	2016	NAVY	132.044	-	132.044																							132.044				
	1	2017	NAVY	156.970	-	156.970																							156.970				
1.1.2) Q1040 MK-82 INERT																																	
Prior Years Deliveries: 6801																																	
	2	2013	NAVY	1,229 ⁽⁶⁾	-	1,229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.626				
	2	2014	NAVY	.738	-	.738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.738				
1.1.3) Q1050 BLU-109 INERT ⁽²⁾																																	
	3	2016	NAVY	.080 ⁽⁹⁾	-	.080																						.080					
	3	2017	NAVY	.110	-	.110																						.110					
2.1.1) Q1300 LGTR ⁽³⁾																																	
Prior Years Deliveries: 20856																																	
	4	2013	NAVY	4,321 ⁽¹⁰⁾	-	4,321	-	-	-	-	-	.300	.450	.450	.450	.450	.450	.450	.450	.450	.450	.118	-	-	-	-	-	-	.303				
	4	2014	NAVY	8,029	-	8,029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.332	.450	.725	.540	.540	.540	.540	.540	3,282			
	4	2015	NAVY	6,747	-	6,747						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,747					
	4	2016	NAVY	7,410	-	7,410																						7,410					
	4	2017	NAVY	7,300	-	7,300																						7,300					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0160 / Practice Bombs	Item Number / Title [DODIC]: 1 / Practice Bombs
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Cost Elements <i>(Units in Thousands)</i>				Fiscal Year 2017													Fiscal Year 2018													BALANCE			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
1.1.1) Q1010 MK-76 ⁽¹⁾																																	
	1	2013	NAVY	87.723	-	87.723	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.130	5.130	6.239	6.239	6.239	6.239	8.239	8.239	8.239	27.790			
	1	2016	NAVY	132.044	-	132.044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.003	11.003	11.003	11.003	11.003	77.029		
	1	2017	NAVY	156.970	-	156.970								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	156.970			
1.1.2) Q1040 MK-82 INERT																																	
Prior Years Deliveries: 6801																																	
	2	2013	NAVY	1,229 ⁽⁶⁾	.603	.626	.101	.101	.106	.106	.106	.106																				-	
	2	2014	NAVY	.738	-	.738	-	-	-	-	-	-	.061	.061	.061	.061	.061	.061	.061	.061	.061	.061	.061	.061	.061	.061	.061	.061	.061	-			
1.1.3) Q1050 BLU-109 INERT ⁽²⁾																																	
	3	2016	NAVY	.080 ⁽⁹⁾	-	.080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.080			
	3	2017	NAVY	.110	-	.110							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.110			
2.1.1) Q1300 LGTR ⁽³⁾																																	
Prior Years Deliveries: 20856																																	
	4	2013	NAVY	4,321 ⁽¹⁰⁾	4.018	.303	-	-	-	-	-	.303																			-		
	4	2014	NAVY	8.029	4.747	3.282	.540	.540	.540	.540	.540	.582																			-		
	4	2015	NAVY	6.747	-	6.747	-	-	-	.417	.417	.417	.417	.606	.639	.639	.639	.639	.639	.639	.639	.639									-		
	4	2016	NAVY	7.410	-	7.410	-	-	-	-	-	-	-	-	-	-	.618	.618	.618	.618	.618	.618	.618	.617	.617	.617	.617	.617	.617	-			
	4	2017	NAVY	7.300	-	7.300							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.600	.600	6.100			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0160 / Practice Bombs	Item Number / Title [DODIC]: 1 / Practice Bombs
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Cost Elements <i>(Units in Thousands)</i>				Fiscal Year 2019												Fiscal Year 2020												BALANCE			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 8	BAL D U E A S O F 1 O C T	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L	A U G	S E P
1.1.1) Q1010 MK-76 ⁽¹⁾																															
	1	2013	NAVY		87.723	59.933	27.790	8.239	9.775	9.776																					-
	1	2016	NAVY	132.044	55.015	77.029	11.003	11.003	11.003	11.003	11.003	11.006	11.008																		-
	1	2017	NAVY	156.970	-	156.970	-	-	-	-	-	-	-	13.135	13.000	13.030	13.030	13.030	13.035	13.035	13.135	13.135	13.135	13.135	13.135	13.135				-	
1.1.2) Q1040 MK-82 INERT																															
Prior Years Deliveries: 6801																															
	2	2013	NAVY	1,229 ⁽⁶⁾	1,229	-																								-	
	2	2014	NAVY	.738	.738	-																								-	
1.1.3) Q1050 BLU-109 INERT ⁽²⁾																															
	3	2016	NAVY	.080 ⁽⁹⁾	-	.080	-	-	-	-	-	-	-	.080																-	
	3	2017	NAVY	.110	-	.110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.110		-	
2.1.1) Q1300 LGTR ⁽³⁾																															
Prior Years Deliveries: 20856																															
	4	2013	NAVY	4,321 ⁽¹⁰⁾	4,321	-																								-	
	4	2014	NAVY	8,029	8,029	-																								-	
	4	2015	NAVY	6,747	6,747	-																								-	
	4	2016	NAVY	7,410	7,410	-																								-	
	4	2017	NAVY	7,300	1,200	6,100	.600	.600	.600	.600	.600	.600	.625	.625	.625	.625														-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0160 / Practice Bombs	Item Number / Title [DODIC]: 1 / Practice Bombs
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Delfasco, LLC - Afton, TN	40,000	200,000	300,000	-	12	24	36	-	-	-	-
2	General Dynamics - Garland, TX / MCAAP	21,359	38,544	100,200	-	-	-	-	-	7	36	43
3	TBD - TBD	1,344	2,323	6,480	-	8	36	44	-	-	-	-
4	Lockheed Martin Corporation LGTR - Archbald, PA	4,000	8,400	22,000	-	-	-	-	-	6	17	23

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

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

Footnotes:

⁽⁸⁾ The FY2012 MK-82 Inert deliveries were removed due to the items being delivered ahead of schedule; deliveries completed in March 2015.

⁽⁹⁾ BLU 109 procurements are combined with production requirements from other services; therefore, USN production rates may reflect quantities below Minimum Sustainment Rates (MSR).

⁽¹⁰⁾ Due to PDOCs limitations the QTY of 303 reflected in March 2017 will deliver in April 2017 QTY of 273 and May 2017 QTY 30 in accordance with the contract delivery schedule. The additional 303 units were awarded with the FY2015 contract.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	661.261	50.866	48.314	54.002	-	54.002	57.586	56.939	57.531	58.688	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	661.261	50.866	48.314	54.002	-	54.002	57.586	56.939	57.531	58.688	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	661.261	50.866	48.314	54.002	-	54.002	57.586	56.939	57.531	58.688	Continuing	Continuing

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

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

Description:

Cartridge Actuated Devices/Propellant Act Devices (CAD/PAD) program's mission is to procure life-limited energetic devices utilized in aircraft egress and safety systems, personnel gear, and to release a weapon or other store from the United States Navy and United States Marine Corps aircraft platforms. The CAD/PAD yearly requirement is modeled based upon the active aircraft in Office of the Naval Operations' (OPNAV) AII report and the assigned service life of the individual CAD/PADs. Due to the individually unique service lives, the yearly requirement of items and their respective quantities is variable.

Hardware-Stores Release: Stores Release cartridges are utilized to release weapons and other stores from aircraft. The JAU-22/B impulse cartridge is utilized to eject sonobuoys. The CCU-107 is utilized to release "light" weapons/stores from aircraft. The CCU-45 (MD65) is utilized to release "heavy" weapons/stores.

Hardware-Safety: Items such as safety/arming devices, sequence controls, shielded mild detonating cords, gas generators, initiators, thrusters, fire extinguisher cartridges, thermal batteries, rocket motors, catapults, and more, are used in aircraft emergency escape and safety systems. These explosives have finite service lives and are replaced during scheduled maintenance. An aircraft may be grounded if a single one of these items does not meet standard. Other items procured such as FLU-12/P Deck Crew Life Vest Inflator and the FLU-8B/P automatic life vest inflator are essential to crew survival after ejection or being thrown overboard.

T-6A (JPATS): Funding provides Under Seat Rocket Motor, Impulse Cartridge, Internal Canopy Mechanical Actuated Initiator, Seat Movement Mechanical Actuated Initiator, External Canopy Mechanical Actuated Initiator, Laser Initiator, Donor Assembly, Manifolds, Shielded Mild Detonating Cord Transfer Line and Holder Assembly.

Misc. Devices Under \$500k: Safety CAD/PAD devices typically priced under \$500k are procured yearly under this budget line, not limited to, but include: 1W18 Explosive Separator, JL96 Rocket Catapult, MJ98 Cartridge Actuated Initiator, SU58 Mild Detonating Cord Set, XW53 Explosive Sequence Control.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Cartridge Actuated Devices/Propellant Act Devices	P-5a, P-21		- / 661.261	- / 50.866	- / 48.314	- / 54.002	- / -	- / 54.002
P-40	Total Gross/Weapon System Cost			- / 661.261	- / 50.866	- / 48.314	- / 54.002	- / -	- / 54.002

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The FY 2017 funding request was reduced by \$1.2 million to account for the availability of prior year execution balances. Additional decrease by \$2.3 million to Cartridge Actuated Devices/Propellant Act Devices (CAD/PAD) as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 funding is required to support fleet requirements that take into account the aircraft inventory, maintenance cycle and aircraft installed Cartridge Actuated Devices/Propellant Act Devices (CAD/PAD) data, service life data, on-hand inventory data, procurement lead-time data, historical cost data and projected contract delivery date data. Funding is also required for lot acceptance testing regarding needed change-outs and service life extensions. Product improvement programs are scheduled to produce the safety devices required to support aircraft ejection systems, fire suppression systems and stores release systems.

The yearly requirements are modeled based upon the active aircraft in the OPNAV A-II report, which feeds into the CAD/PAD Requirements Determination Module (RDM). The RDM accounts for the changing number of aircraft, platform availability, and unique component service lives of all procured commodities and respective quantities, which are variable from year to year.

FY 2017 funding increased above inflation rate from FY2016 for Misc. Devices Under \$500k to support fleet requirements to replenish diminishing inventory as a result of active aircraft, platform availability and component service life. FY 2016 incurred reductions in Misc. Devices Under \$500k, which resulted in F Y2017 increased requirements to maintain fleet readiness.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy														Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices							Aggregated Items Title: Cartridge Actuated Devices/Propellant Act Devices					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Hardware-Stores Release																				
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ^{(1)(†)}	A		24.17	293,000	7.082	32.10	40,000	1.284	32.74	40,000	1.310	33.39	14,760	0.493	-	-	-	33.39	14,760	0.493
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^{(2)(†)}	A		8.44	470,000	3.968	7.99	140,000	1.119	8.14	140,000	1.140	8.30	19,760	0.164	-	-	-	8.30	19,760	0.164
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ^{(3)(†)}	A		8.13	304,043	2.471	8.88	75,000	0.666	9.04	75,000	0.678	9.21	16,576	0.153	-	-	-	9.21	16,576	0.153
Subtotal: 1) Hardware-Stores Release			-	-	13.521	-	-	3.069	-	-	3.128	-	-	0.810	-	-	-	-	-	0.810
2) Hardware Safety																				
2.1) (Q8060) Thermal Battery (CWDR) ^{(4)(†)}	A		4,390.61	873	3.833	5,393.31	239	1.289	4,602.51	200	0.921	4,694.56	200	0.939	-	-	-	4,694.56	200	0.939
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29) - NSWG, Indian Head ^{(5)(†)}	A		1,896.67	1,500	2.845	2,007.00	300	0.602	2,046.67	300	0.614	2,085.56	300	0.626	-	-	-	2,085.56	300	0.626
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ^{(6)(†)}	A		3,411.73	3,376	11.518	3,858.61	706	2.724	4,226.00	500	2.113	4,310.52	691	2.979	-	-	-	4,310.52	691	2.979
2.4) (Q8071) MK 123 Underseat RCKT Motor (MT30) - Reworked	A		3,912.09	91	0.356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5) (Q8071) MK 123 Underseat RCKT Motor (MT30) ^(†)	A		9,507.14	140	1.331	9,691.36	81	0.785	9,875.00	88	0.869	10,083.33	24	0.242	-	-	-	10,083.33	24	0.242
2.6) (Q8081) MK 124 Underseat RCKT Motor (MT31) - Reworked	A		3,876.81	138	0.535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^(†)	A		9,295.96	223	2.073	9,694.44	72	0.698	9,877.86	131	1.294	10,081.08	37	0.373	-	-	-	10,081.08	37	0.373
2.8) (Q8140) FLU-8/9/12 Inflators (FW98/BY81JL09) ⁽⁷⁾	A		-	-	11.599	-	-	2.378	-	-	1.300	-	-	1.500	-	-	-	-	-	1.500

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy															Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1					P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices										Aggregated Items Title: Cartridge Actuated Devices/Propellant Act Devices				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.9) (Q8160) JAU-74 INIT/CCU-146 CTG (WB15/16) ⁽⁸⁾	A		-	-	10.376	-	-	1.741	-	-	2.054	-	-	1.854	-	-	-	-	-	1.854
2.10) (Q8180) F-18 DIFRS (SR95/WB19)	A		-	-	7.068	-	-	1.675	-	-	1.418	-	-	0.945	-	-	-	-	-	0.945
2.11) (Q8300) Navy Aircrew Common Ejection Seats	A		-	-	7.703	-	-	1.976	-	-	2.237	-	-	1.964	-	-	-	-	-	1.964
2.12) (Q8301) F-18E/ F/G & V-22 Fire Suppression Gas	A		-	-	13.054	-	-	2.699	-	-	2.403	-	-	2.410	-	-	-	-	-	2.410
2.13) (Q8302) T-6A (JPATS) CAD/PADs ⁽⁹⁾	A		-	-	18.393	-	-	5.197	-	-	9.600	-	-	10.600	-	-	-	-	-	10.600
Subtotal: 2) Hardware Safety			-	-	90.684	-	-	21.764	-	-	24.823	-	-	24.432	-	-	-	-	-	24.432
3) Hardware-Misc. Devices																				
3.1) Misc. Devices Under \$500k ⁽¹⁰⁾	A		-	-	77.107	-	-	13.268	-	-	7.405	-	-	15.585	-	-	-	-	-	15.585
Subtotal: 3) Hardware-Misc. Devices			-	-	77.107	-	-	13.268	-	-	7.405	-	-	15.585	-	-	-	-	-	15.585
4) (Q8800) Intergrated Logistics Support																				
4.1) Stores Release ILS	A		-	-	0.939	-	-	0.245	-	-	0.249	-	-	0.254	-	-	-	-	-	0.254
4.2) Safety ILS	A		-	-	3.466	-	-	0.795	-	-	0.810	-	-	0.825	-	-	-	-	-	0.825
4.3) Misc. Devices ILS	A		-	-	1.928	-	-	0.289	-	-	0.295	-	-	0.300	-	-	-	-	-	0.300
Subtotal: 4) (Q8800) Intergrated Logistics Support			-	-	6.333	-	-	1.329	-	-	1.354	-	-	1.379	-	-	-	-	-	1.379
5) (Q8820) Reliability Life																				
5.1) Stores Release Reliability Life	A		-	-	0.544	-	-	0.127	-	-	0.130	-	-	0.132	-	-	-	-	-	0.132
5.2) Safety Reliability Life	A		-	-	1.980	-	-	0.318	-	-	0.304	-	-	0.307	-	-	-	-	-	0.307
5.3) Misc. Devices Reliability Life	A		-	-	1.188	-	-	0.153	-	-	0.156	-	-	0.159	-	-	-	-	-	0.159
Subtotal: 5) (Q8820) Reliability Life			-	-	3.712	-	-	0.598	-	-	0.590	-	-	0.598	-	-	-	-	-	0.598
6) (Q8830) Production Engineering																				
6.1) Stores Release PES	A		-	-	3.818	-	-	1.084	-	-	1.105	-	-	1.126	-	-	-	-	-	1.126
6.2) Safety PES	A		-	-	13.783	-	-	3.286	-	-	3.348	-	-	3.414	-	-	-	-	-	3.414
6.3) Misc. Devices PES	A		-	-	6.164	-	-	0.741	-	-	0.755	-	-	0.769	-	-	-	-	-	0.769

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy															Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices									Aggregated Items Title: Cartridge Actuated Devices/Propellant Act Devices				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: 6) (Q8830) Production Engineering			-	-	23.765	-	-	5.111	-	-	5.208	-	-	5.309	-	-	-	-	-	5.309
7) (Q8840) Quality Assurance																				
7.1) Stores Release QA	A		-	-	0.517	-	-	0.132	-	-	0.135	-	-	0.136	-	-	-	-	-	0.136
7.2) Safety QA	A		-	-	1.963	-	-	0.463	-	-	0.429	-	-	0.435	-	-	-	-	-	0.435
7.3) Misc. Devices QA	A		-	-	1.053	-	-	0.159	-	-	0.162	-	-	0.165	-	-	-	-	-	0.165
Subtotal: 7) (Q8840) Quality Assurance			-	-	3.533	-	-	0.754	-	-	0.726	-	-	0.736	-	-	-	-	-	0.736
8) (Q8850) Product Improvement																				
8.1) Stores Release PIP	A		-	-	2.247	-	-	0.575	-	-	0.590	-	-	0.602	-	-	-	-	-	0.602
8.2) Safety PIP	A		-	-	8.518	-	-	1.998	-	-	2.040	-	-	2.054	-	-	-	-	-	2.054
8.3) Misc. Devices PIP	A		-	-	4.610	-	-	0.676	-	-	0.693	-	-	0.707	-	-	-	-	-	0.707
Subtotal: 8) (Q8850) Product Improvement			-	-	15.375	-	-	3.249	-	-	3.323	-	-	3.363	-	-	-	-	-	3.363
9) (Q8860) Acceptance Testing																				
9.1) Stores Release Acceptance Testing	A		-	-	2.212	-	-	0.441	-	-	0.450	-	-	0.458	-	-	-	-	-	0.458
9.2) Safety Acceptance Testing	A		-	-	8.199	-	-	0.742	-	-	0.756	-	-	0.770	-	-	-	-	-	0.770
9.3) Misc. Devices Acceptance Testing	A		-	-	5.079	-	-	0.541	-	-	0.551	-	-	0.562	-	-	-	-	-	0.562
Subtotal: 9) (Q8860) Acceptance Testing			-	-	15.490	-	-	1.724	-	-	1.757	-	-	1.790	-	-	-	-	-	1.790
10) Prior Years																				
10.1) Prior Years Cumulative Funding	A		-	-	411.741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 10) Prior Years			-	-	411.741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	661.261	-	-	50.866	-	-	48.314	-	-	54.002	-	-	-	-	-	54.002

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
(t) indicates the presence of a P-5a

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices	Aggregated Items Title: Cartridge Actuated Devices/Propellant Act Devices

Footnotes:

- ⁽¹⁾ FY 2017 decreased requirements due to reduced usage per Non-Combat Expenditure Allowance, historical expenditure average, Non-Nuclear Ordnance Requirements, NAVSEA allowance reporting. Fluctuations in pricing from PB 2016 are due to FY 2015 funding being updated for actual contract award and the out-years were adjusted to align with OSD standard inflation rate.
- ⁽²⁾ FY 2017 decreased requirements due to reduced usage per Non-Combat Expenditure Allowance, historical expenditure average, Non-Nuclear Ordnance Requirements, NAVSEA allowance reporting. Fluctuations in pricing from PB 2016 are due to FY 2015 funding being updated for actual contract award and the out-years were adjusted to align with OSD standard inflation rate.
- ⁽³⁾ FY 2017 Decreased requirements due to reduced usage per Non-Combat Expenditure Allowance, historical expenditure average, Non-Nuclear Ordnance Requirements, NAVSEA allowance reporting. Fluctuations in pricing from PB 2016 are due to FY 2015 funding being updated for actual contract award and the out-years were adjusted to align with OSD standard inflation rate.
- ⁽⁴⁾ FY 2015 was updated for actual contract award value realizing a higher unit cost due to obsolescence issues and increased material costs. FY 2016-FY 2017 will be utilizing a replacement item consisting of different material resulting in a lower unit price.
- ⁽⁵⁾ 2.2) (Q2070) MK-122 Parachute Deployment Rocket Motor (MT29) requirements/quantities are produced organically at Naval Surface Warfare Center, Indian Head Explosive Ordnance Disposal Technology Division. Due to a future replacement item, a quantity of 300 is scheduled to be modified to offset any risk associated with the introduction of a new fleet asset. FY2016 and FY2017 account for organic modification efforts that support re-work/modification of MK-122 Parachute Deployment Rocket Motors (PDRMs). The organic modification efforts have lower costs based on the condition of the device and the level of modifications required.
- ⁽⁶⁾ 2.3) (Q2070) MK-122 Parachute Deployment Rocket Motor (MT29) requirements/quantities are procured from a commercial contractor. A quantity of 300 was realigned to cost element 2.2 in FY2016 and FY2017 to offset any risk associated with the introduction of a new fleet asset.
- ⁽⁷⁾ 2.8) (Q8140) FLU-8/9/12 Inflators (FW98/BY81JL09) cost element now only funds the FLU-8 (used on the LPU-23 and LPU-36 Life Preservers) and the FLU-12 (used on the MK-1 Life Preserver) Automatic Inflation Devices (Navy no longer is procuring the FLU-9). FLU-8 and FLU-12 are bought under 2 separate contracts. FY2017 funding increased above inflation rate from FY2016 due to the required number of change outs.
- ⁽⁸⁾ 2.9) (Q8160) JAU-74 INIT / CCU-146 CTG (WB15/16) cost element funds 2 items. The number of aircraft increased by 24 aircraft from FY2015 to FY2016, which increased the requirement for the WB15/16 budget line. Fluctuations in the requirements are based on active aircraft, platform availability and component service life.
- ⁽⁹⁾ 2.13) (Q8302) T-6A (JPATS) CAD/PADs cost element funds 28 safety CAD/PAD items that are unique to the T-6 and are awarded over 5 contracts. These devices are within the aircraft's escape and safety systems. FY 2016 and FY 2017 funding increased above inflation rate due to the number of active aircraft in the All report and the requirements determination process that includes accurate cost to date and increased requirements based on the Fleet's need. The number of aircraft increased by 21 aircraft from FY 2015 to FY 2016 and by 9 aircraft from FY 2016 to FY 2017, which increased the requirement for the T-6 JPATS items.
- ⁽¹⁰⁾ 3.1) Misc. Devices Under \$500k cost element - FY 2017 funding increased above inflation rate from FY 2016 to support fleet requirements to replenish diminishing inventory as a result of active aircraft, platform availability and component service life. Prior reductions in Misc. Devices Under \$500k resulted in FY 2017 increased requirements to maintain fleet readiness.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices					Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Hardware-Stores Release												
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ^{(1)(f)}		2013	AMTEC CORPORATION / JANESVILLE, WI	C / FP	NAVSUP	Oct 2012	Dec 2013	40,000	30.90	Y		Oct 2011
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ^{(1)(f)}		2014	AMTEC CORPORATION / JANESVILLE, WI	C / FP	NAVSUP	Apr 2014	Apr 2015	83,000	27.00	Y		Oct 2013
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ^{(1)(f)}		2015	AMTEC CORPORATION / JANESVILLE, WI	C / FP	NAVSUP	Apr 2015	Apr 2016	40,000	32.10	Y		Oct 2014
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ^{(1)(f)}		2016	AMTEC CORPORATION / JANESVILLE, WI	C / FP	NAVSUP	Apr 2016	Apr 2017	40,000	32.74	Y		Oct 2015
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ^{(1)(f)}		2017	AMTEC CORPORATION / JANESVILLE, WI	C / FP	NAVSUP	Apr 2017	Apr 2018	14,760	33.39	Y		Oct 2016
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^{(2)(f)}		2014	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Apr 2014	Apr 2015	20,000	10.10	Y		Oct 2013
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^{(2)(f)}		2015	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Nov 2014	Nov 2015	140,000	7.99	Y		Jul 2014
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^{(2)(f)}		2016	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Apr 2016	Apr 2017	140,000	8.14	Y		Oct 2015
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ^{(2)(f)}		2017	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Apr 2017	Apr 2018	19,760	8.30	Y		Oct 2016
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽³⁾		2013	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Mar 2013	Mar 2014	55,323	8.80	Y		Oct 2012
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽³⁾		2014	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	May 2014	May 2015	78,720	9.05	Y		Oct 2013
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽³⁾		2015	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Nov 2014	Nov 2015	75,000	8.88	Y		Aug 2014
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽³⁾		2016	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Apr 2016	Apr 2017	75,000	9.04	Y		Oct 2015
1.3) (Q8201) CCU-45 Impulse CTG (MD65) ⁽³⁾		2017	Pyrotechnic Specialities / Byron, GA	C / FP	NAVSUP	Apr 2017	Apr 2018	16,576	9.21	Y		Oct 2016
2) Hardware Safety												
2.1) (Q8060) Thermal Battery (CWDR) ⁽⁴⁾		2013	MARTIN-BAKER A/ CRT C / MIDDLESEX GB	C / FP	NAVAIR	May 2013	May 2014	159	4,779.87	Y		Oct 2012
2.1) (Q8060) Thermal Battery (CWDR) ⁽⁴⁾		2014	MARTIN-BAKER A/ CRT C / MIDDLESEX GB	C / FP	NAVAIR	May 2014	May 2015	199	4,984.92	Y		Oct 2013

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices					Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1) (Q8060) Thermal Battery (CWDR) ⁽⁴⁾		2015 ⁽¹¹⁾	MARTIN-BAKER A/ CRT C / MIDDLESEX GB	C / FP	NAVAIR	May 2015	May 2016	239	5,393.31	Y		Oct 2014
2.1) (Q8060) Thermal Battery (CWDR) ⁽⁴⁾		2016 ⁽¹²⁾	TBD / TBD	TBD	NAVAIR	Apr 2016	Apr 2017	200	4,602.51	Y		Oct 2015
2.1) (Q8060) Thermal Battery (CWDR) ⁽⁴⁾		2017	TBD / TBD	TBD	NAVSUP	Apr 2017	Apr 2018	200	4,694.56	Y		Oct 2016
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29) - NSWC, Indian Head ⁽⁵⁾		2014	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Sep 2014	Sep 2015	300	1,966.65	Y		
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29) - NSWC, Indian Head ⁽⁵⁾		2015 ⁽¹³⁾	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Sep 2015	Sep 2016	300	2,007.00	Y		
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29) - NSWC, Indian Head ⁽⁵⁾		2016 ⁽¹⁴⁾	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2016	Mar 2017	300	2,046.67	Y		
2.2) (Q2070) MK 122 Parachute Deploy RCKT (MT29) - NSWC, Indian Head ⁽⁵⁾		2017 ⁽¹⁵⁾	NSWC INDIAN HEAD DIV / Indian Head, MD	Various	NSWC	Mar 2017	Mar 2018	300	2,085.56	Y		
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ^{(6)(f)}		2014	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Sep 2014	Apr 2015	1,056	2,858.90	Y		Oct 2013
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ^{(6)(f)}		2015	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Mar 2015	May 2016	706	3,858.61	Y		Oct 2014
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ^{(6)(f)}		2016	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Mar 2016	Oct 2016	500	4,226.00	Y		Oct 2015
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ^{(6)(f)}		2017	MARTIN-BAKER A/CRT C / MIDDLESEX, GB	C / FP	NAVSUP	Mar 2017	Oct 2017	691	4,310.52	Y		Oct 2016
2.5) (Q8071) MK 123 Underseat RCKT Motor (MT30)		2013	MARTIN-BAKER A/ CFT C / MIDDLESEX, GB	C / FP	NAVSUP	Aug 2013	Aug 2014	55	9,308.36	Y		Oct 2012
2.5) (Q8071) MK 123 Underseat RCKT Motor (MT30)		2014 ⁽¹⁶⁾	MARTIN-BAKER A/ CFT C / MIDDLESEX, GB	C / FP	NAVSUP	Sep 2015	Sep 2016	26	9,494.54	Y		Oct 2013
2.5) (Q8071) MK 123 Underseat RCKT Motor (MT30)		2015 ⁽¹⁷⁾	MARTIN-BAKER A/ CFT C / MIDDLESEX, GB	C / FP	NAVSUP	Sep 2015	Sep 2016	81	9,691.36	Y		Oct 2014
2.5) (Q8071) MK 123 Underseat RCKT Motor (MT30)		2016	MARTIN-BAKER A/ CFT C / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2016	Apr 2017	88	9,875.00	Y		Oct 2015
2.5) (Q8071) MK 123 Underseat RCKT Motor (MT30)		2017	MARTIN-BAKER A/ CFT C / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2017	Apr 2018	24	10,083.33	Y		Oct 2016

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices				Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices					
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^(†)		2013	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Aug 2013	Aug 2014	108	9,308.35	Y		Oct 2012
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^(†)		2014 ⁽¹⁸⁾	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Sep 2015	Sep 2016	34	9,494.53	Y		Oct 2013
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^(†)		2015 ⁽¹⁹⁾	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Sep 2015	Sep 2016	72	9,694.44	Y		Oct 2014
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^(†)		2016 ⁽²⁰⁾	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2016	Apr 2017	131	9,877.86	Y		Oct 2015
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31) ^(†)		2017 ⁽²¹⁾	MARTIN-BAKER A/ CFT / MIDDLESEX, GB	C / FP	NAVSUP	Apr 2017	Apr 2018	37	10,081.08	Y		Oct 2016

^(†) indicates the presence of a P-21

Footnotes:

- ⁽¹¹⁾ Contract award date was updated to 05/2015 to align with actual contract award.
- ⁽¹²⁾ In FY16/17, the procurement contract will be a competitive award. The performing activity and location are currently TBD due to the competitive contracting strategy.
- ⁽¹³⁾ Contract award date was delayed from February 2015 to September 2015 due to a delay in propellant composition adjustments for the MT29 end item.
- ⁽¹⁴⁾ The estimated award date is moved up from September 2016 to March 2016 due to previous issues with propellant and grains being resolved. Production of the item is now back on schedule.
- ⁽¹⁵⁾ The estimated award date is moved up from September 2017 to March 2017 due to previous issues with propellant and grains being resolved. Production of the item is now back on schedule.
- ⁽¹⁶⁾ The Estimated Award Date (EAD) was delayed from February 2015 to September 2015 due to the safety regulation issues associated with an overseas contractor, which has led Defense Contract Management Agency (DCMA) to issue a no award for these items. A Letter for Waiver of U.S. Safety Requirements was received on August 6, 2015, which waives certain U.S. Safety Regulations and requires that Host Nations Safety Regulations are met. Contracts awarded September 2015. FY2015 contract was awarded as an option to FY2014.
- ⁽¹⁷⁾ The EAD was delayed from April 2015 to September 2015 due to the safety regulation issues associated with an overseas contractor, which has led DCMA to issue a no award for these items. A Letter for Waiver of U.S. Safety Requirements was received on August 6, 2015, which waives certain U.S. Safety Regulations and requires that Host Nations Safety Regulations are met. Contracts awarded September 2015. FY2015 contract was awarded as an option to FY2014.
- ⁽¹⁸⁾ The EAD was delayed from February 2015 to The EAD was delayed from February 2015 to September 2015 due to the safety regulation issues associated with an overseas contractor, which has led DCMA to issue a no award for these items. A Letter for Waiver of U.S. Safety Requirements was received on August 6, 2015, which waives certain U.S. Safety Regulations and requires that Host Nations Safety Regulations are met. Contracts awarded September 2015. FY2015 contract was awarded as an option to FY2014.
- ⁽¹⁹⁾ The EAD was delayed from April 2015 to The EAD was delayed from February 2015 to September 2015 due to the safety regulation issues associated with an overseas contractor, which has led DCMA to issue a no award for these items. A Letter for Waiver of U.S. Safety Requirements was received on August 6, 2015, which waives certain U.S. Safety Regulations and requires that Host Nations Safety Regulations are met. Contracts awarded September 2015. FY2015 contract was awarded as an option to FY2014.
- ⁽²⁰⁾ The EAD was incorrectly identified in previous budgets as October 2016 and is being updated to align with the joint award of the MK-123 Underseat RCKT Motor (MT30).
- ⁽²¹⁾ The EAD was incorrectly identified in previous budgets as October 2017 and is being updated to align with the joint award of the MK-123 Underseat RCKT Motor (MT30).

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Navy															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices										Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices				

Items <i>(Units in Thousands)</i>						Fiscal Year 2013													Fiscal Year 2014													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 2	BAL D U E A S O F 1 O C T	Calendar Year 2013													Calendar Year 2014													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1) Hardware-Stores Release																																	
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ⁽¹⁾																																	
Prior Years Deliveries: 170000																																	
4	2013	NAVY		40.000	-	40.000	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.668			
4	2014	NAVY		83.000	-	83.000																								83.000			
4	2015	NAVY		40.000	-	40.000																								40.000			
4	2016	NAVY		40.000	-	40.000																								40.000			
4	2017	NAVY		14.760	-	14.760																								14.760			
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ⁽²⁾																																	
Prior Years Deliveries: 450000																																	
5	2014	NAVY		20.000	-	20.000																								20.000			
5	2015	NAVY		140.000	-	140.000																								140.000			
5	2016	NAVY		140.000	-	140.000																								140.000			
5	2017	NAVY		19.760	-	19.760																								19.760			
2) Hardware Safety																																	
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ⁽⁶⁾																																	
Prior Years Deliveries: 2320																																	
6	2014	NAVY		1.056	-	1.056																								1.056			
6	2015	NAVY		.706	-	.706																								.706			
6	2016	NAVY		.500	-	.500																								.500			
6	2017	NAVY		.691	-	.691																								.691			
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31)																																	
Prior Years Deliveries: 81																																	
7	2013	NAVY		.108	-	.108																								.108			
7	2014	NAVY		.034	-	.034																								.034			
7	2015	NAVY		.072	-	.072																								.072			
7	2016	NAVY		.131	-	.131																								.131			
7	2017	NAVY		.037	-	.037																								.037			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy																							Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices										Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices									
Items (Units in Thousands)					Fiscal Year 2015										Fiscal Year 2016										BALANCE				
O C C O #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G
1) Hardware-Stores Release																													
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ⁽¹⁾																													
Prior Years Deliveries: 170000																													
4	2013	NAVY	40.000	33.332	6.668	3.334	3.334																						
4	2014	NAVY	83.000	-	83.000	-	-	-	-	-	-	-	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	6.000		
4	2015	NAVY	40.000	-	40.000								A -	-	-	-	-	-	-	-	-	-	-	-	-	3.333	3.333	3.333	3.333
4	2016	NAVY	40.000	-	40.000																					A -	-	-	-
4	2017	NAVY	14.760	-	14.760																								
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ⁽²⁾																													
Prior Years Deliveries: 450000																													
5	2014	NAVY	20.000	-	20.000	-	-	-	-	-	-	-	10.000	10.000															
5	2015	NAVY	140.000	-	140.000								A -	-	-	-	-	-	-	-	-	-	-	-	-	11.666	11.666	11.666	11.666
5	2016	NAVY	140.000	-	140.000																					A -	-	-	-
5	2017	NAVY	19.760	-	19.760																								
2) Hardware Safety																													
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ⁽⁶⁾																													
Prior Years Deliveries: 2320																													
6	2014	NAVY	1.056	-	1.056	-	-	-	-	-	-	-	.100	.100	.100	.100	.100	.100	.100	.100	.100	.100	.100	.100	.100	.056			
6	2015	NAVY	.706	-	.706								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.058	.058
6	2016	NAVY	.500	-	.500																					A -	-	-	-
6	2017	NAVY	.691	-	.691																								
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31)																													
Prior Years Deliveries: 81																													
7	2013	NAVY	.108	.020	.088	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.010	.008			
7	2014	NAVY	.034	-	.034																					A -	-	-	-
7	2015	NAVY	.072	-	.072																					A -	-	-	-
7	2016	NAVY	.131	-	.131																					A -	-	-	-
7	2017	NAVY	.037	-	.037																								
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Navy																				Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices										Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices									

Items <i>(Units in Thousands)</i>					Fiscal Year 2017												Fiscal Year 2018												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	BAL D U E A S O F 1 O C T	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
1) Hardware-Stores Release																															
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ⁽¹⁾																															
Prior Years Deliveries: 170000																															
4	2013	NAVY		40.000	40.000	-																									
4	2014	NAVY		83.000	83.000	-																									
4	2015	NAVY		40.000	19.998	20.002	3.333	3.333	3.334	3.334	3.334	3.334																			
4	2016	NAVY		40.000	-	40.000	-	-	-	-	-	-	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.334	3.334	3.334	3.334							
4	2017	NAVY		14.760	-	14.760							A -	-	-	-	-	-	-	-	-	-	-	-	1.230	1.230	1.230	1.230	1.230	1.230	7.380
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ⁽²⁾																															
Prior Years Deliveries: 450000																															
5	2014	NAVY		20.000	20.000	-																									
5	2015	NAVY		140.000	128.333	11.667	11.667																								
5	2016	NAVY		140.000	-	140.000	-	-	-	-	-	-	11.666	11.666	11.666	11.666	11.667	11.667	11.667	11.667	11.667	11.667	11.667								
5	2017	NAVY		19.760	-	19.760							A -	-	-	-	-	-	-	-	-	-	-	-	1.647	1.647	1.647	1.647	1.647	1.647	9.878
2) Hardware Safety																															
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ⁽⁶⁾																															
Prior Years Deliveries: 2320																															
6	2014	NAVY		1.056	1.056	-																									
6	2015	NAVY		.706	.293	.413	.059	.059	.059	.059	.059	.059	.059																		
6	2016	NAVY		.500	-	.500	.042	.042	.042	.042	.042	.042	.042	.041	.041	.041	.041														
6	2017	NAVY		.691	-	.691							A -	-	-	-	-	-	-	.057	.057	.057	.057	.057	.057	.058	.058	.058	.058	.058	
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31)																															
Prior Years Deliveries: 81																															
7	2013	NAVY		.108	.108	-																									
7	2014	NAVY		.034	.010	.024	.010	.010	.004																						
7	2015	NAVY		.072	.010	.062	.010	.010	.010	.010	.010	.002																			
7	2016	NAVY		.131	-	.131	-	-	-	-	-	.010	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011							
7	2017	NAVY		.037	-	.037							A -	-	-	-	-	-	-	-	-	-	-	-	.003	.003	.003	.003	.003	.003	.019
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices										Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices				

Items <i>(Units in Thousands)</i>					Fiscal Year 2019												Fiscal Year 2020												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
1) Hardware-Stores Release																															
1.1) (Q8090) JAU-22/B Initiator CTG (MF64) ⁽¹⁾																															
Prior Years Deliveries: 170000																															
4	2013	NAVY		40.000	40.000	-																							-		
4	2014	NAVY		83.000	83.000	-																							-		
4	2015	NAVY		40.000	40.000	-																							-		
4	2016	NAVY		40.000	40.000	-																							-		
4	2017	NAVY		14.760	7.380	7.380	1.230	1.230	1.230	1.230	1.230	1.230																	-		
1.2) (Q8200) CCU-107 Impulse CTG (MT95/JM92) ⁽²⁾																															
Prior Years Deliveries: 450000																															
5	2014	NAVY		20.000	20.000	-																							-		
5	2015	NAVY		140.000	140.000	-																							-		
5	2016	NAVY		140.000	140.000	-																							-		
5	2017	NAVY		19.760	9.882	9.878	1.647	1.647	1.646	1.646	1.646	1.646																	-		
2) Hardware Safety																															
2.3) (Q2070) MK 122 Parachute Deploy RCKT (MT29) ⁽⁶⁾																															
Prior Years Deliveries: 2320																															
6	2014	NAVY		1.056	1.056	-																							-		
6	2015	NAVY		.706	.706	-																							-		
6	2016	NAVY		.500	.500	-																							-		
6	2017	NAVY		.691	.691	-																							-		
2.7) (Q8081) MK 124 Underseat RCKT Motor (MT31)																															
Prior Years Deliveries: 81																															
7	2013	NAVY		.108	.108	-																							-		
7	2014	NAVY		.034	.034	-																							-		
7	2015	NAVY		.072	.072	-																							-		
7	2016	NAVY		.131	.131	-																							-		
7	2017	NAVY		.037	.018	.019	.003	.003	.003	.003	.003	.004																	-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0180 / Cartridge Actuated Devices/Propellant Act Devices
		Aggregated Items: Cartridge Actuated Devices/Propellant Act Devices

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	AMTEC CORPORATION - JANESVILLE, WI	20,000	50,000	100,000	-	7	12	19	-	-	-	-
2	Pyrotechnic Specialities - Byron, GA	10,000	100,000	200,000	-	7	12	19	-	-	-	-
3	MARTIN-BAKER A/CRT C - MIDDLESEX, GB	100	500	1,250	-	12	7	19	-	-	-	-
4	MARTIN-BAKER A/CFT - MIDDLESEX, GB	15	50	150	-	11	12	23	-	-	-	-

"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 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604270N, 0604279N
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Line Item MDAP/MAIS Code: 418	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,110.143	79.452	56.935	57.034	7.060	64.094	61.000	80.208	81.668	83.023	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,110.143	79.452	56.935	57.034	7.060	64.094	61.000	80.208	81.668	83.023	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,110.143	79.452	56.935	57.034	7.060	64.094	61.000	80.208	81.668	83.023	Continuing	Continuing

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

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

Description:

The Air Expendable Countermeasures (AECM) line provides funding for procurement of countermeasure self-protection devices for all DoN and Marine Corps tactical, rotary and other fixed-wing aircraft. The AECM Program is divided into the following threat related groupings: (1) Active Jammers (2) Infrared (IR) Decoys (3) associated impulse cartridges (4) Chaff Countermeasures and (5) F-35 Countermeasures.

ACTIVE JAMMERS: Current Active Jammer is ALE-55 Fiber Optic Towed Decoy (FOTD) and is part of the ALE-50 program. The FOTD, when integrated with the rest of the F/A-18E/F Electronic Warfare (EW) suite (i.e., ALQ-214, ALR-67(V)3, ALE-47 and ALE-50), the associated cockpit controls, displays and other avionics significantly improves the survivability of the host aircraft in a Radio Frequency (RF) threat environment. The FOTD is part of the Integrated Defensive Electronic Countermeasure (IDECM) Radio Frequency Countermeasure (RFCM) Block 3 (IB-3) program. ALE-55 Milestone (MS) III was conducted July 2011. Initial Operational Capability (IOC) was achieved July 2011. FOTD was developed utilizing RDT&E,N PE 0604270N, Project Unit 2175. The GEN-X active RF decoy is dispensed from the ALE-47 system and protects all Navy and Marine Corps fixed wing aircraft from modern surface-to-air and air-to-air threats.

IR DECOYS: The MJU-49/32/38 are currently used by all aircraft except the KC130J/T to provide self protection from surface to air/air to air IR missiles. The MJU-61 and MJU-64 are used on the KC-130J/T, UC-35D, UC-12W and F-35 aircraft to provide self protection from surface to air/air to air IR missiles. The SM-875 is a dedicated, low cost training device. The MJU-61 is a low cost F-35 training device. The MJU-57 provides a kinematic IR Countermeasure to defeat specific Man-Portable Air Defense Systems (MANPADS). Procurement of MJU-66 advanced spectral countermeasure began in FY 2013 in support of KC-130J/T and UC-35D. The MJU-67 Multi-spectral flare provides an enhanced spectral signature required for DoN aircraft self-protection against accelerated proliferation of MANPADS including the threat addressed in JUONS #SO-0010.

IMPULSE CARTRIDGES: Used to propel the self-protection devices away from the aircraft. The CCU-136 is used by all airframes except the KC-130J/T, UC-12W and UC-35D. The CCU-145 is used on KC-130J/T, UC-35D, UC-12W and F-35.

CHAFF COUNTERMEASURES: The RR-129 is the operational round used on all Navy aircraft platforms. The RR-144 is a dedicated training round used on all airframes except the USMC KC-130J/T, UC-12W and UC-35D. The RR-144 training round does not interfere with Federal Aviation Administration (FAA) tracking radars. The RR-170 is the operational round procured in support of the KC-130J/T, UC-12W and UC-35D.

F-35 COUNTERMEASURES: Includes all unique countermeasures that provide self-protection for the Joint Strike Fighter (JSF) aircraft, specifically ALE-70, MJU-68, MJU-69 and CCU-168. In addition to F-35 unique countermeasures, MJU-61 and MJU-64 are also used for F-35 self-protection.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604270N, 0604279N
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Line Item MDAP/MAIS Code: 418	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Air Expendable Countermeasures	P-5a, P-21		- / 1,110.143	- / 79.451	- / 56.935	- / 57.032	- / 7.060	- / 64.092
P-40	Total Gross/Weapon System Cost			- / 1,110.143	- / 79.452	- / 56.935	- / 57.034	- / 7.060	- / 64.094

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
FY 2017 decrease by \$3.1 million to Air Expendable Countermeasures (AECM) as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 baseline funding is required to procure Active Jammers, Infrared (IR) Decoys, Impulse Cartridges, Chaff Countermeasures, F-35 Countermeasures and associated support for DoN and Marine Corps tactical, rotary and other fixed-wing aircraft to meet Fleet inventory levels requirements, based on Naval Munitions Requirements Process (NMRP) combat requirement. These proven countermeasure devices provide pre-emptive or terminal and reactive self-protection for all Navy and Marine Corps strike, assault, rotary wing, and other fixed wing aircraft from Radio Frequency (RF) or IR guided missile attack and other advanced threats.

In accordance with Operational Requirement Document (ORD): # 512-88-89 dated 28 May 99, Air Expendable Countermeasures program is tasked with maintaining an operationally effective mixture of countermeasures that can degrade and/or neutralize the effectiveness of current and/or projected threats and provide pre-emptive, area and point source devices that must be compatible with Night Vision Goggles (NVG). ORD: # 512-88-89 mandates Product Improvement Program (PIP) and Production Engineering Support (PES) to ensure expendables are cost effective, environmentally friendly and Hazards of Electromagnetic Radiation to Ordnance (HERO) safe.

Total funding in FY 2017 is based on a minimum level to meet inventory objectives NMRP Combat Requirement (CR), and is well below Total Munitions Requirement (TMR).

OCO:
FY 2017 Overseas Contingency Operations (OCO) funding supports requirements set forth in a Joint Urgent Operational Need Statement (JUONS) for self-protection against accelerated proliferation of advanced Man-Portable Air Defense Systems (MANPADS). These operations are in support of Operation Inherent Resolve.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy																Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures						Aggregated Items Title: Air Expendable Countermeasures ⁽¹⁾								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) ACTIVE JAMMERS																				
1.1) ALE-50 (AAED)	A		-	-	54.095	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) ALE-55 (FOTD) (2)(†)	A		88,534.13	1,421	125.807	70,186.00	283	19.863	70,788.00	284	20.104	73,762.45	261	19.252	-	-	-	73,762.45	261	19.252
1.3) TECHNICAL SUPPORT (ACTIVE JAMMER)	A		-	-	0.728	-	-	0.730	-	-	0.836	-	-	0.852	-	-	-	-	-	0.852
Subtotal: 1) ACTIVE JAMMERS			-	-	180.630	-	-	20.593	-	-	20.940	-	-	20.104	-	-	-	-	-	20.104
2) IR DECOYS																				
2.1) MJU-32 ^{(3)(†)}	A		111.44	468,366	52.197	-	-	-	55.81	40,709	2.272	-	-	-	-	-	-	-	-	-
2.2) MJU-38 ^{(4)(†)}	A		139.26	305,874	42.597	54.94	10,611	0.583	56.04	20,735	1.162	-	-	-	-	-	-	-	-	-
2.3) MJU-49	A		563.39	370,391	208.673	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4) MJU-55	A		-	-	20.105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5) MJU-57 ^(†)	A		360.27	197,105	71.011	148.57	17,594	2.614	151.54	19,461	2.949	154.57	6,857	1.060	-	-	-	154.57	6,857	1.060
2.6) MJU-61 ^{(5)(†)}	A		88.92	26,193	2.329	93.14	19,476	1.814	95.00	9,337	0.887	96.90	19,508	1.890	-	-	-	96.90	19,508	1.890
2.7) MJU-64 ^{(6)(†)}	A		90.79	80,508	7.309	90.78	67,327	6.112	92.40	16,147	1.492	92.85	872	0.081	-	-	-	92.85	872	0.081
2.8) MJU-66 ^{(7)(†)}	A		128.69	38,332	4.933	128.69	19,746	2.541	134.27	19,044	2.557	137.77	18,872	2.600	-	-	-	137.77	18,872	2.600
2.9) MJU-67 ^{(8)(†)}	A		309.45	5,261	1.628	369.09	9,220	3.403	-	-	-	398.02	13,763	5.478	398.02	17,738	7.060	398.02	31,501	12.538
2.10) SM875 ^(†)	A		41.62	1,086,612	45.226	23.00	310,144	7.133	23.00	520,900	11.981	23.00	134,783	3.100	-	-	-	23.00	134,783	3.100
Subtotal: 2) IR DECOYS			-	-	456.008	-	-	24.200	-	-	23.300	-	-	14.209	-	-	7.060	-	-	21.269
3) IMPULSE CARTRIDGES																				
3.1) CCU-136 ^(†)	A		9.81	4,736,948	46.459	3.77	628,912	2.371	3.85	626,493	2.412	3.92	406,122	1.592	-	-	-	3.92	406,122	1.592
3.2) CCU-145 ^{(9)(†)}	A		6.93	1,113,046	7.709	5.05	254,059	1.283	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) IMPULSE CARTRIDGES			-	-	54.168	-	-	3.654	-	-	2.412	-	-	1.592	-	-	-	-	-	1.592
4) CHAFF COUNTERMEASURES																				
4.1) RR-129 ^{(10)(†)}	A		12.32	253,110	3.118	12.71	90,086	1.145	13.15	135,589	1.783	13.92	39,224	0.546	-	-	-	13.92	39,224	0.546
4.2) RR-144 ^{(11)(†)}	A		33.80	560,010	18.926	14.99	79,185	1.187	15.58	36,393	0.567	-	-	-	-	-	-	-	-	-
4.3) RR-170 ^{(12)(†)}	A		15.55	29,072	0.452	3.99	29,574	0.118	4.14	28,261	0.117	-	-	-	-	-	-	-	-	-
4.4) RR-188	A		-	-	0.121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) CHAFF COUNTERMEASURES			-	-	22.617	-	-	2.450	-	-	2.467	-	-	0.546	-	-	-	-	-	0.546
5) F-35 COUNTERMEASURES ⁽¹³⁾																				
5.1) ALE-70 ^{(14)(†)}	A		56,938.56	472	26.875	54,653.00	120	6.558	-	-	-	56,850.58	72	4.093	-	-	-	56,850.58	72	4.093
5.2) MJU-68 ^(†)	A		2,193.37	4,194	9.199	2,425.00	415	1.006	-	-	-	2,522.97	1,261	3.181	-	-	-	2,522.97	1,261	3.181

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures	Aggregated Items Title: Air Expendable Countermeasures ⁽¹⁾
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Item Number / Title [DODIC]	ID	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.3) MJU-69 ^(tt)	A		2,322.43	3,700	8.593	2,425.00	415	1.006	-	-	-	2,522.97	1,261	3.181	-	-	-	2,522.97	1,261	3.181
5.4) CCU-168 ^(tt)	A		318.90	3,810	1.215	305.70	415	0.127	-	-	-	318.05	1,261	0.401	-	-	-	318.05	1,261	0.401
Subtotal: 5) F-35 COUNTERMEASURES			-	-	45.882	-	-	8.697	-	-	-	-	-	10.856	-	-	-	-	-	10.856
6) INTEGRATED LOGISTICS SUPPORT																				
6.1) ACTIVE JAMMERS	A		-	-	2.617	-	-	0.256	-	-	0.218	-	-	0.230	-	-	-	-	-	0.230
6.2) IR DECOYS	A		-	-	16.703	-	-	2.558	-	-	0.807	-	-	0.823	-	-	-	-	-	0.823
6.3) IMPULSE CARTRIDGES	A		-	-	1.460	-	-	0.050	-	-	0.096	-	-	0.098	-	-	-	-	-	0.098
6.4) CHAFF COUNTERMEASURES	A		-	-	0.988	-	-	0.124	-	-	0.053	-	-	0.054	-	-	-	-	-	0.054
6.5) F-35 COUNTERMEASURES	A		-	-	0.690	-	-	0.325	-	-	-	-	-	0.586	-	-	-	-	-	0.586
Subtotal: 6) INTEGRATED LOGISTICS SUPPORT			-	-	22.458	-	-	3.313	-	-	1.174	-	-	1.791	-	-	-	-	-	1.791
7) PRODUCTION ENGINEERING SUPPORT																				
7.1) ACTIVE JAMMERS	A		-	-	29.287	-	-	0.725	-	-	0.565	-	-	0.571	-	-	-	-	-	0.571
7.2) IR DECOYS ⁽¹⁵⁾	A		-	-	63.002	-	-	3.880	-	-	1.570	-	-	1.648	-	-	-	-	-	1.648
7.3) IMPULSE CARTRIDGES	A		-	-	5.069	-	-	0.150	-	-	0.164	-	-	0.167	-	-	-	-	-	0.167
7.4) CHAFF COUNTERMEASURES	A		-	-	2.459	-	-	0.300	-	-	0.066	-	-	0.067	-	-	-	-	-	0.067
7.5) F-35 COUNTERMEASURES	A		-	-	6.896	-	-	0.797	-	-	-	-	-	0.844	-	-	-	-	-	0.844
Subtotal: 7) PRODUCTION ENGINEERING SUPPORT			-	-	106.713	-	-	5.852	-	-	2.365	-	-	3.297	-	-	-	-	-	3.297
8) PRODUCT IMPROVEMENT PROGRAM																				
8.1) IR DECOYS	A		-	-	88.103	-	-	4.876	-	-	0.700	-	-	2.009	-	-	-	-	-	2.009
8.2) IMPULSE CARTRIDGES	A		-	-	11.951	-	-	0.240	-	-	0.170	-	-	0.288	-	-	-	-	-	0.288
8.3) CHAFF COUNTERMEASURES	A		-	-	0.623	-	-	0.080	-	-	0.015	-	-	0.015	-	-	-	-	-	0.015
8.4) F-35 COUNTERMEASURES	A		-	-	-	-	-	-	-	-	-	-	-	0.409	-	-	-	-	-	0.409
Subtotal: 8) PRODUCT IMPROVEMENT PROGRAM			-	-	100.677	-	-	5.196	-	-	0.885	-	-	2.721	-	-	-	-	-	2.721
9) ACCEPTANCE TEST & EVALUATION																				
9.1) IR DECOYS	A		-	-	100.005	-	-	5.050	-	-	2.649	-	-	1.159	-	-	-	-	-	1.159

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures	Aggregated Items Title: Air Expendable Countermeasures ⁽¹⁾
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
9.2) IMPULSE CARTRIDGES	A		-	-	15.456	-	-	0.240	-	-	0.159	-	-	0.162	-	-	-	-	-	0.162
9.3) CHAFF COUNTERMEASURES	A		-	-	5.029	-	-	0.106	-	-	0.133	-	-	0.135	-	-	-	-	-	0.135
9.4) F-35 COUNTERMEASURES	A		-	-	0.500	-	-	0.100	-	-	0.451	-	-	0.460	-	-	-	-	-	0.460
Subtotal: 9) ACCEPTANCE TEST & EVALUATION			-	-	120.990	-	-	5.496	-	-	3.392	-	-	1.916	-	-	-	-	-	1.916
Total			-	-	1,110.143	-	-	79.451	-	-	56.935	-	-	57.032	-	-	7.060	-	-	64.092

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

(†) indicates the presence of a P-5a

Footnotes:

- (1) (a) Unit costs for hardware in FY15 - FY17 reflect either escalated actual unit cost or actual pricing in contract options. (b) Deliveries funded by different fiscal year appropriations occasionally overlap (P21 Delivery Schedule) to ensure inventory goals are met without exceeding maximum production rates.
- (2) ALE-55 FY 2016-FY 2017 (Full Rate Production) ALE-55 unit prices and technical support updated to reflect negotiated contract values.
- (3) MJU-32 FY 2016 quantities reduced in addition to F-35 Countermeasures. FY 2017 quantities reduced to align inventory with Naval Munitions Requirements Process (NMRP) levels in accordance with Navy priorities.
- (4) MJU-38 FY 2016 quantities reduced in addition to F-35 Countermeasures. FY 2017 quantities reduced to align inventory with Naval Munitions Requirements Process (NMRP) levels in accordance with Navy priorities.
- (5) MJU-61 FY 2015 quantities increased from PB 2016 due to revised OCO requirements. FY 2017 quantities increased based on requirement for use of MJU-61 as a low cost F-35 training flare; inventory is currently well below NMRP Total Munitions Requirement.
- (6) MJU-64 FY 2015 quantities increased from PB 2016 due to revised OCO requirements. FY 2017 quantities reduced to realign baseline funds in support of F-35 Countermeasure requirements.
- (7) MJU-66 FY 2016-FY 2017 unit cost increase above inflation is based on actual contract 3 year IDIQ pricing, base contract/pricing valid thru FY 2017.
- (8) MJU-67 FY 2017 unit cost increase due to raw materials management from foreign supplier and cost incurred to resolve reliability following bullet impact test failures.
- (9) CCU-145 FY 2016-FY 2017 baseline quantities reduced to align inventory with NMRP levels in accordance with Navy priorities.
- (10) RR-129 FY 2016-FY 2017 unit cost increase above inflation due to actual contract 3 year IDIQ pricing, base contract/pricing valid thru FY 2017.
- (11) RR-144 FY 2016 unit costs increased above inflation due to actual contract; 3 year IDIQ pricing, base contract/pricing valid thru FY 2017.
- (12) RR-170 FY 2016 unit costs increased above inflation due to actual contract; 3 year IDIQ pricing, base contract/pricing valid thru FY 2017.
- (13) F-35 Countermeasures - All F-35 procurements eliminated in FY16 in accordance with congressional action. Total F-35 hardware items and associated support were not sufficient to fulfill congressional action, therefore IR Decoys (MJU-32/38) were also reduced.
- (14) ALE-70 FY 2015 quantities increased from PB 2016 to accommodate F-35B IOC. FY 2017 quantity change from PB 2016 due to revised F-35B delivery schedule.
- (15) 7.2 (PES IR Decoys) Increase above inflation from FY 2016 to FY 2017 required to support increased MJU-61 and MJU-67 production quantities.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures				Aggregated Items: Air Expendable Countermeasures ⁽¹⁾				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) ACTIVE JAMMERS												
1.2) ALE-55 (FOTD) ^{(2)(†)}		2015	BAE SYSTEMS / NASHUA, NH	SS / FP	NAVAIR	Nov 2014	Dec 2015	283	70,186.00	Y		Jun 2014
1.2) ALE-55 (FOTD) ^{(2)(†)}		2016	BAE SYSTEMS / NASHUA, NH	SS / FP	NAVAIR	Dec 2015	Dec 2016	284	70,788.00	Y		Jun 2015
1.2) ALE-55 (FOTD) ^{(2)(†)}		2017	BAE SYSTEMS / NASHUA, NH	SS / FP	NAVAIR	Nov 2016	Dec 2017	261	73,762.45	Y		Jun 2015
2) IR DECOYS												
2.1) MJU-32 ⁽³⁾		2016	TBD ⁽¹⁶⁾ / TBD	C / IDIQ	NAVSUP WSS	May 2016	Nov 2016	40,709	55.81	Y		Dec 2015
2.2) MJU-38 ⁽⁴⁾		2015	ARMTEC DEFENSE, INC. / Camden, Arkansas	C / FFP	NAVSUP WSS	Oct 2015	May 2016	10,611	54.94	Y		Mar 2015
2.2) MJU-38 ⁽⁴⁾		2016	ARMTEC DEFENSE, INC. / Camden, Arkansas	C / FFP	NAVSUP WSS	May 2016	Oct 2016	20,735	56.04	Y		Mar 2015
2.5) MJU-57 ^(†)	✓	2014	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Dec 2013	Apr 2015	42,932	153.06	Y		Dec 2011
2.5) MJU-57 ^(†)	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Mar 2015	Sep 2015	17,594	148.57	Y		Dec 2011
2.5) MJU-57 ^(†)		2016	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Apr 2016	Oct 2016	8,513	151.54	Y		Dec 2011
2.5) MJU-57 ^(†)	✓	2016	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Apr 2016	Oct 2016	10,948	151.54	Y		Dec 2011
2.5) MJU-57 ^(†)		2017	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Apr 2017	Oct 2017	6,857	154.57	Y		Dec 2011
2.6) MJU-61 ^{(5)(†)}	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	CRANE, IN	Mar 2015	Jul 2015	19,476	93.14	Y		Jan 2013
2.6) MJU-61 ^{(5)(†)}		2016 ⁽¹⁷⁾	TBD ⁽¹⁸⁾ / TBD	C / IDIQ	CRANE, IN	Jun 2016	Mar 2017	8,842	95.00	Y		Jan 2016
2.6) MJU-61 ^{(5)(†)}	✓	2016	TBD ⁽¹⁸⁾ / TBD	C / IDIQ	CRANE, IN	Jun 2016	Mar 2017	495	95.00	Y		Jan 2016
2.6) MJU-61 ^{(5)(†)}		2017	TBD ⁽¹⁸⁾ / TBD	C / IDIQ	CRANE, IN	Jun 2017	Jan 2018	19,508	96.90	Y		Jan 2016
2.7) MJU-64 ⁽⁶⁾	✓	2013	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Nov 2014	Oct 2015	21,788	90.78	Y		Apr 2014
2.7) MJU-64 ⁽⁶⁾		2014	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Nov 2014	Oct 2015	38,309	90.78	Y		Apr 2014
2.7) MJU-64 ⁽⁶⁾	✓	2014	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Nov 2014	Oct 2015	20,411	90.78	Y		Apr 2014
2.7) MJU-64 ⁽⁶⁾		2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jul 2015	Apr 2016	397	90.78	Y		Apr 2014
2.7) MJU-64 ⁽⁶⁾	✓	2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jul 2015	Apr 2016	66,930	90.78	Y		Apr 2014

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures				Aggregated Items: Air Expendable Countermeasures ⁽¹⁾				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.7) MJU-64 ⁽⁶⁾		2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jun 2016	Mar 2017	11,363	92.40	Y		Apr 2014
2.7) MJU-64 ⁽⁶⁾	✓	2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jun 2016	Mar 2017	4,784	92.40	Y		Apr 2014
2.7) MJU-64 ⁽⁶⁾		2017	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Jun 2017	Mar 2018	872	92.85	Y		Apr 2014
2.8) MJU-66 ^{(7)(f)}		2013	ALLOY SURFACES, INC. / ASTON, PA	SS / IDIQ	NAVSUP WSS	Aug 2014	Jun 2015	18,975	128.69	Y		Oct 2013
2.8) MJU-66 ^{(7)(f)}		2014	ALLOY SURFACES, INC. / ASTON, PA	SS / IDIQ	NAVSUP WSS	Aug 2014	Aug 2015	19,357	128.69	Y		Oct 2013
2.8) MJU-66 ^{(7)(f)}		2015 ⁽¹⁹⁾	ALLOY SURFACES, INC. / ASTON, PA	SS / IDIQ	NAVSUP WSS	Jun 2015	Sep 2016	19,746	128.69	Y		Oct 2013
2.8) MJU-66 ^{(7)(f)}		2016	ALLOY SURFACES, INC. / ASTON, PA	SS / IDIQ	NAVSUP WSS	Jun 2016	Dec 2016	19,044	134.27	Y		Oct 2013
2.8) MJU-66 ^{(7)(f)}		2017	ALLOY SURFACES, INC. / ASTON, PA	SS / IDIQ	NAVSUP WSS	Jun 2017	Dec 2017	18,872	137.77	Y		Oct 2013
2.9) MJU-67 ^{(8)(f)}		2014	Esterline Defense Technologies / Camden, AR	MIPR	DOTC	Mar 2014	Sep 2014	5,261	309.50	Y		Dec 2013
2.9) MJU-67 ^{(8)(f)}		2015 ⁽²⁰⁾	Esterline Defense Technologies / Camden, AR	MIPR	DOTC	Sep 2015	Mar 2016	9,220	369.09	Y		Dec 2013
2.9) MJU-67 ^{(8)(f)}		2017	Esterline Defense Technologies / Camden, AR	SS / BOA	CRANE, IN	Jun 2017	Feb 2018	13,763	398.02	Y		Jan 2016
2.9) MJU-67 ^{(8)(f)}	✓	2017	Esterline Defense Technologies / Camden, AR	SS / BOA	CRANE, IN	Jun 2017	Feb 2018	17,738	398.02	Y		Jan 2016
2.10) SM875 ^(f)	✓	2014	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	May 2014	Nov 2014	460,695	23.00	Y		Jul 2013
2.10) SM875 ^(f)	✓	2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	May 2015	Nov 2015	310,144	23.00	Y		Jul 2013
2.10) SM875 ^(f)		2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	May 2016	Nov 2016	172,174	23.00	Y		Jul 2013
2.10) SM875 ^(f)	✓	2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	May 2016	Nov 2016	348,726	23.00	Y		Jul 2013
2.10) SM875 ^(f)		2017	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Apr 2017	Oct 2017	134,783	23.00	Y		Jul 2013
3) IMPULSE CARTRIDGES												
3.1) CCU-136 ^(f)		2014	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2014	Mar 2015	423,933	3.67	Y		Dec 2011
3.1) CCU-136 ^(f)	✓	2014	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2014	Mar 2015	998,976	3.67	Y		Dec 2011

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1				P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures				Aggregated Items: Air Expendable Countermeasures ⁽¹⁾				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1) CCU-136 ^(†)		2015	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	Jun 2015	Apr 2016	300,265	3.77	Y		Dec 2011
3.1) CCU-136 ^(†)	✓	2015	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	Jun 2015	Apr 2016	328,647	3.77	Y		Dec 2011
3.1) CCU-136 ^(†)		2016	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2016	Mar 2017	407,012	3.85	Y		Dec 2011
3.1) CCU-136 ^(†)	✓	2016	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2016	Mar 2017	219,481	3.85	Y		Dec 2011
3.1) CCU-136 ^(†)		2017	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2017	Mar 2018	406,122	3.92	Y		Dec 2011
3.2) CCU-145 ⁽⁹⁾		2014	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2014	Mar 2015	271,385	4.98	Y		Dec 2011
3.2) CCU-145 ⁽⁹⁾	✓	2014	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	May 2014	Mar 2015	59,251	4.98	Y		Dec 2011
3.2) CCU-145 ⁽⁹⁾		2015	CAPCO, INC / GRAND JUNCTION, CO	C / IDIQ	NAVSUP WSS	Jun 2015	Apr 2016	254,059	5.05	Y		Dec 2011
4) CHAFF COUNTERMEASURES												
4.1) RR-129 ^{(10)(†)}		2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Feb 2015	May 2015	90,086	12.71	Y		Jun 2013
4.1) RR-129 ^{(10)(†)}		2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Mar 2016	Jun 2016	135,589	13.15	Y		Jun 2013
4.1) RR-129 ^{(10)(†)}		2017	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Mar 2017	Jun 2017	39,224	13.92	Y		Jun 2013
4.2) RR-144 ⁽¹¹⁾		2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Feb 2015	May 2015	79,185	14.99	Y		Jun 2013
4.2) RR-144 ⁽¹¹⁾		2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Apr 2016	Jul 2016	36,393	15.58	Y		Jun 2013
4.3) RR-170 ⁽¹²⁾		2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Feb 2015	May 2015	29,574	3.99	Y		Jun 2013
4.3) RR-170 ⁽¹²⁾		2016	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	NAVSUP WSS	Apr 2016	Jul 2016	28,261	4.14	Y		Jun 2013
5) F-35 COUNTERMEASURES												
5.1) ALE-70 ^{(14)(†)}		2014	BAE SYSTEMS / NASHUA, NH	SS / IDIQ	NAVSUP WSS	Apr 2014	Jun 2015	132	60,656.00	Y		Mar 2013
5.1) ALE-70 ^{(14)(†)}		2015	BAE SYSTEMS / NASHUA, NH	SS / IDIQ	NAVSUP WSS	Apr 2015	Jun 2016	120	54,653.00	Y		Mar 2013
5.1) ALE-70 ^{(14)(†)}		2017	BAE SYSTEMS / NASHUA, NH	SS / IDIQ	NAVSUP WSS	May 2017	Jun 2018	72	56,850.58	Y		Nov 2016
5.2) MJU-68 ^(†)		2014 ⁽²¹⁾	BAE SYSTEMS / NASHUA, NH	SS / Letter	NAVSUP WSS	May 2016	Mar 2017	1,619	2,425.00	Y		Nov 2014
5.2) MJU-68 ^(†)		2015 ⁽²²⁾	BAE SYSTEMS / NASHUA, NH	SS / Letter	NAVSUP WSS	May 2016	Mar 2017	415	2,425.00	Y		Nov 2014

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures	Aggregated Items: Air Expendable Countermeasures ⁽¹⁾
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.2) MJU-68 ^(†)		2017	BAE SYSTEMS / NASHUA, NH	SS / IDIQ	NAVSUP WSS	May 2017	Mar 2018	1,261	2,522.97	Y		Nov 2016
5.3) MJU-69 ^(†)		2014 ⁽²³⁾	BAE SYSTEMS / NASHUA, NH	SS / Letter	NAVSUP WSS	May 2016	Mar 2017	1,619	2,425.00	Y		Nov 2014
5.3) MJU-69 ^(†)		2015 ⁽²⁴⁾	BAE SYSTEMS / NASHUA, NH	SS / Letter	NAVSUP WSS	May 2016	Mar 2017	415	2,425.00	Y		Nov 2014
5.3) MJU-69 ^(†)		2017	BAE SYSTEMS / NASHUA, NH	SS / IDIQ	NAVSUP WSS	May 2017	Mar 2018	1,261	2,522.97	Y		Nov 2016
5.4) CCU-168		2014 ⁽²⁵⁾	BAE SYSTEMS / NASHUA, NH	SS / Letter	NAVSUP WSS	May 2016	Oct 2016	1,553	305.70	Y		Nov 2014
5.4) CCU-168		2015 ⁽²⁶⁾	BAE SYSTEMS / NASHUA, NH	SS / Letter	NAVSUP WSS	May 2016	Oct 2016	415	305.70	Y		Nov 2014
5.4) CCU-168		2017	BAE SYSTEMS / NASHUA, NH	SS / IDIQ	NAVSUP WSS	May 2017	Oct 2017	1,261	318.05	Y		Nov 2016

^(†) indicates the presence of a P-21

Footnotes:

- ⁽¹⁶⁾ MJU-32 FY16 annual production rates TBD pending contract award.
- ⁽¹⁷⁾ MJU-61 - Competitive contract awards to industry beginning in FY16.
- ⁽¹⁸⁾ MJU-61 FY16 annual production rates TBD pending contract award.
- ⁽¹⁹⁾ MJU-66 FY15 delivery delay due to First Article Test failure. Contractor to accelerate production to return to original contracted delivery schedule.
- ⁽²⁰⁾ MJU-67 FY15 contract award changed from PB16 following resolution of reliability concerns following bullet impact test failures and raw materials management concerns from foreign supplier. Multi-spectral flare required to meet the Joint Urgent Operation Need Statement (JUONS) #SO-0010 for DoN aircraft self-protection against Man-portable air-defense systems (MANPADs) and accelerated proliferation of advanced threats.
- ⁽²¹⁾ MJU-68 FY14 contractor's proposal submission delayed until Sep 2015 to incorporate Lot Acceptance failure corrective actions. Delay in contract award due to extensive changes in Technical Data Package (TDP) and adjustment in contracting strategy required to mitigate further delays.
- ⁽²²⁾ MJU-68 FY15 contract award combined with FY14.
- ⁽²³⁾ MJU-69 FY14 contractor's proposal submission delayed until Sep 2015 to incorporate Lot Acceptance failure corrective actions. Delay in contract award due to extensive changes in Technical Data Package (TDP) and adjustment in contracting strategy required to mitigate further delays.
- ⁽²⁴⁾ MJU-69 FY15 contract award combined with FY14.
- ⁽²⁵⁾ CCU-168 FY14 contractor's proposal submission delayed until Sep 2015 to incorporate Lot Acceptance failure corrective actions. Delay in contract award due to extensive changes in Technical Data Package (TDP) and adjustment in contracting strategy required to mitigate further delays.
- ⁽²⁶⁾ CCU-168 FY15 contract award combined with FY14.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures	Aggregated Items: Air Expendable Countermeasures ⁽¹⁾
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Items (Units in Thousands)				Fiscal Year 2014													Fiscal Year 2015													BALANCE																								
				Calendar Year 2014													Calendar Year 2015																																					
OCO #	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	BALANCE																							
2.9) MJU-67 ⁽⁸⁾																																																						
13		2014	NAVY	5.261	-	5.261							A -	-	-	-	-	.440	.440	.440	.440	.440	.440	.440	.440	.440	.440	.440	.421		-																							
13		2015	NAVY	9.220	-	9.220																									A -	9.220																						
13		2017	NAVY	13.763	-	13.763																										13.763																						
✓		2017	NAVY	17.738	-	17.738																									17.738																							
2.10) SM875																																																						
Prior Years Deliveries: 625917																																																						
✓	14	2014	NAVY	460.695	-	460.695							A -	-	-	-	-	-	38.400	38.400	38.400	38.400	38.400	38.400	38.400	38.400	38.400	38.400	38.400	38.400	38.295																							
✓	14	2015	NAVY	310.144	-	310.144																									A -	310.144																						
	14	2016	NAVY	172.174	-	172.174																										172.174																						
✓	14	2016	NAVY	348.726	-	348.726																										348.726																						
	14	2017	NAVY	134.783	-	134.783																										134.783																						
3) IMPULSE CARTRIDGES																																																						
3.1) CCU-136																																																						
Prior Years Deliveries: 3314039																																																						
	15	2014	NAVY	423.933	-	423.933							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.600	43.200	43.200	43.200	43.200	43.200	43.200	43.200	143.133																
✓	15	2014	NAVY	998.976	-	998.976							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43.200	86.400	86.400	86.400	86.400	86.400	86.400	86.400	437.376															
	15	2015	NAVY	300.265	-	300.265																																A -	-	-	-	300.265												
✓	15	2015	NAVY	328.647	-	328.647																																	A -	-	-	-	328.647											
	15	2016	NAVY	407.012	-	407.012																																				407.012												
✓	15	2016	NAVY	219.481	-	219.481																																				219.481												
	15	2017	NAVY	406.122	-	406.122																																				406.122												
4) CHAFF COUNTERMEASURES																																																						
4.1) RR-129 ⁽¹⁰⁾																																																						
Prior Years Deliveries: 253110																																																						
	16	2015	NAVY	90.086	-	90.086																																			A -	-	-	10.000	10.000	10.000	10.000	10.000	40.086					
	16	2016	NAVY	135.589	-	135.589																																											135.589					
	16	2017	NAVY	39.224	-	39.224																																											39.224					
5) F-35 COUNTERMEASURES																																																						
5.1) ALE-70 ⁽¹⁴⁾																																																						
Prior Years Deliveries: 340																																																						
	17	2014	NAVY	.132	-	.132							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.011	.011	.011	.011	.088						
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																							

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures	Aggregated Items: Air Expendable Countermeasures ⁽¹⁾
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Items (Units in Thousands)					Fiscal Year 2016													Fiscal Year 2017													B A L A N C E		
O C O	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 5	B A L D U E A S O F 1 O C T	Calendar Year 2016													Calendar Year 2017													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1) ACTIVE JAMMERS																																	
1.2) ALE-55 (FOTD) ⁽²⁾																																	
Prior Years Deliveries: 1421																																	
	8	2015	NAVY	.283	-	.283	-	-	.025	.025	.025	.025	.025	.025	.025	.025	.025	.025	.025	.008	-	-	.023	.023	.023	.024	.024	.024	.024	.024	.024	.024	-
	8	2016	NAVY	.284	-	.284			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	.023	.023	.023	.024	.024	.024	.024	.024	.024	.024	.047
	8	2017	NAVY	.261	-	.261														A -	-	-	-	-	-	-	-	-	-	-	-	.261	
2) IR DECOYS																																	
2.5) MJU-57																																	
Prior Years Deliveries: 154173																																	
✓	9	2014	NAVY	42.932	36.000	6.932	3.600	3.332																								-	
✓	9	2015	NAVY	17.594	.268	17.326	1.600	1.600	1.600	1.600	1.600	1.600	1.600	1.600	1.600	1.326																-	
	9	2016	NAVY	8.513	-	8.513								A -	-	-	-	-	-	3.600	3.600	1.313									-		
✓	9	2016	NAVY	10.948	-	10.948								A -	-	-	-	-	-	3.600	3.600	3.748									-		
	9	2017	NAVY	6.857	-	6.857																					A -	-	-	-	-	-	6.857
2.6) MJU-61 ⁽⁵⁾																																	
Prior Years Deliveries: 26193																																	
✓	10	2015	NAVY	19.476	4.869	14.607	1.623	1.623	1.623	1.623	1.623	1.623	1.623	1.623	1.623																-		
	11	2016	NAVY	8.842	-	8.842										A -	-	-	-	-	-	-	-	-	-	.207	.785	.785	.785	.785	.785	.785	3.925
✓	11	2016	NAVY	.495	-	.495										A -	-	-	-	-	-	-	-	-	.495							-	
	11	2017	NAVY	19.508	-	19.508																						A -	-	-	-	-	19.508
2.8) MJU-66 ⁽⁷⁾																																	
	12	2013	NAVY	18.975	18.975	-	-	-	-	-	-	-	-	-	-																	-	
	12	2013	AF ^(†)	62.468	-	62.468	3.668	8.400	8.400	8.400	8.400	8.400	8.400	8.400																	-		
	12	2013	Total	81.443	18.975	62.468	3.668	8.400	8.400	8.400	8.400	8.400	8.400	8.400																	-		
	12	2014	NAVY	19.357	14.625	4.732	4.732	-	-	-	-	-	-	-	-																	-	
	12	2014	AF ^(†)	16.800	-	16.800	-	-	-	-	-	-	-	-	8.400	8.400																-	
	12	2014	Total	36.157	14.625	21.532	4.732	-	-	-	-	-	-	-	8.400	8.400																-	
	12	2015	NAVY	19.746	-	19.746	-	-	-	-	-	-	-	-	-	-	-	2.727	8.400	8.619	-	-	-	-	-	-	-	-	-	-		-	
	12	2015	AF ^(†)	100.800	-	100.800	-	-	-	-	-	-	-	-	-	-	-	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400		-	
	12	2015	Total	120.546	-	120.546	-	-	-	-	-	-	-	-	-	-	-	11.127	16.800	17.019	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400	8.400		-	
	12	2016	NAVY	19.044	-	19.044										A -	-	-	-	-	-	-	1.664	1.580	1.580	1.580	1.580	1.580	1.580	1.580	1.580	3.160	
	12	2017	NAVY	18.872	-	18.872																					A -	-	-	-	-	18.872	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures	Aggregated Items: Air Expendable Countermeasures ⁽¹⁾
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Items (Units in Thousands)						Fiscal Year 2016														Fiscal Year 2017														BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
2.9) MJU-67⁽⁸⁾																																				
	13	2014	NAVY	5.261	5.261	-																											-			
	13	2015	NAVY	9.220	-	9.220	-	-	-	-	-	-	.769	.769	.769	.769	.768	.768	.768	.768	.768	.768	.768	.768	.768								-			
	13	2017	NAVY	13.763	-	13.763																											13.763			
✓	13	2017	NAVY	17.738	-	17.738																											17.738			
2.10) SM875																																				
Prior Years Deliveries: 625917																																				
✓	14	2014	NAVY	460.695	422.400	38.295	38.295																										-			
✓	14	2015	NAVY	310.144	-	310.144	-	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845	25.845		-			
	14	2016	NAVY	172.174	-	172.174																												-		
✓	14	2016	NAVY	348.726	-	348.726																												-		
	14	2017	NAVY	134.783	-	134.783																												-		
3) IMPULSE CARTRIDGES																																				
3.1) CCU-136																																				
Prior Years Deliveries: 3314039																																				
	15	2014	NAVY	423.933	280.800	143.133	43.200	43.200	21.600	21.600	13.533																							-		
✓	15	2014	NAVY	998.976	561.600	437.376	86.400	86.400	86.400	86.400	91.776																							-		
	15	2015	NAVY	300.265	-	300.265	-	-	-	-	-	-	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022	25.022		-			
✓	15	2015	NAVY	328.647	-	328.647	-	-	-	-	-	-	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387	27.387		-			
	15	2016	NAVY	407.012	-	407.012																													-	
✓	15	2016	NAVY	219.481	-	219.481																													-	
	15	2017	NAVY	406.122	-	406.122																													-	
4) CHAFF COUNTERMEASURES																																				
4.1) RR-129⁽¹⁰⁾																																				
Prior Years Deliveries: 253110																																				
	16	2015	NAVY	90.086	50.000	40.086	10.000	10.000	10.000	10.086																									-	
	16	2016	NAVY	135.589	-	135.589																														-
	16	2017	NAVY	39.224	-	39.224																														-
5) F-35 COUNTERMEASURES																																				
5.1) ALE-70⁽¹⁴⁾																																				
Prior Years Deliveries: 340																																				
	17	2014	NAVY	.132	.044	.088	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011		-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:**
0182 / Air Expendable Countermeasures **Aggregated Items:**
Air Expendable Countermeasures ⁽¹⁾

Items <i>(Units in Thousands)</i>				Fiscal Year 2016													Fiscal Year 2017													BALANCE			
OCO #	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year																										
							2016													2017													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
17		2014	AF (+)	.104	.036	.068	.009	.009	.009	.009	.008	.008	.008	.008															-				
17		2014	Total	.236	.080	.156	.020	.020	.020	.020	.019	.019	.019	.019														-					
17		2015	NAVY	.120	-	.120	-	-	-	-	-	-	-	.040	.040	.040	-	-	-	-	-	-	-	-	-	-	-	-					
17		2015	AF (+)	.466	-	.466	-	-	-	-	-	-	-	-	-	-	.052	.052	.052	.052	.052	.052	.052	.051	.051			-					
17		2015	Total	.586	-	.586	-	-	-	-	-	-	-	.040	.040	.040	.052	.052	.052	.052	.052	.052	.051	.051			-						
17		2017	NAVY	.072	-	.072																		A -	-	-	-	.072					
17		2017	AF (+)	.192	-	.192																		A -	-	-	-	.192					
17		2017	Total	.264	-	.264																		-	-	-	-	.264					
5.2) MJU-68																																	
Prior Years Deliveries: 2575																																	
18		2014	NAVY	1.619	-	1.619								A -	-	-	-	-	-	-	-	-	-	.250	.250	.250	.250	.250	.250	.119	-		
18		2014	AF (+)	2.060	-	2.060								A -	-	-	-	-	-	-	-	-	-	-	-	.060	.250	.250	.250	1.250			
18		2014	Total	3.679	-	3.679								-	-	-	-	-	-	-	-	-	-	.250	.250	.250	.310	.500	.500	.369	1.250		
18		2015	NAVY	.415	-	.415								A -	-	-	-	-	-	-	-	-	-	.250	.165	-	-	-	-	-			
18		2015	AF (+)	2.250	-	2.250								A -	-	-	-	-	-	-	-	-	-	-	-	.250	.250	.250	.250	1.000			
18		2015	Total	2.665	-	2.665								-	-	-	-	-	-	-	-	-	-	.250	.165	.250	.250	.250	.250	.250	1.000		
18		2017	NAVY	1.261	-	1.261																				A -	-	-	-	1.261			
18		2017	AF (+)	2.525	-	2.525																				A -	-	-	-	2.525			
18		2017	Total	3.786	-	3.786																				-	-	-	-	3.786			
5.3) MJU-69																																	
Prior Years Deliveries: 2081																																	
19		2014	NAVY	1.619	-	1.619								A -	-	-	-	-	-	-	-	-	-	.250	.250	.250	.250	.250	.250	.119	-		
19		2014	AF (+)	2.060	-	2.060								A -	-	-	-	-	-	-	-	-	-	-	-	.060	.250	.250	.250	1.250			
19		2014	Total	3.679	-	3.679								-	-	-	-	-	-	-	-	-	-	.250	.250	.250	.310	.500	.500	.369	1.250		
19		2015	NAVY	.415	-	.415								A -	-	-	-	-	-	-	-	-	-	.250	.165	-	-	-	-	-			
19		2015	AF (+)	2.250	-	2.250								A -	-	-	-	-	-	-	-	-	-	-	-	.250	.250	.250	.250	1.000			
19		2015	Total	2.665	-	2.665								-	-	-	-	-	-	-	-	-	-	.250	.165	.250	.250	.250	.250	.250	1.000		
19		2017	NAVY	1.261	-	1.261																				A -	-	-	-	1.261			
19		2017	AF (+)	2.525	-	2.525																				A -	-	-	-	2.525			
19		2017	Total	3.786	-	3.786																				-	-	-	-	3.786			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N / 01 / 1

P-1 Line Item Number / Title:
0182 / Air Expendable Countermeasures

Aggregated Items:
Air Expendable Countermeasures ⁽¹⁾

Items (Units in Thousands)					Fiscal Year 2018													Fiscal Year 2019													B A L A N C E		
O C O	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 7	B A L D U E A S O F 1 O C T	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1) ACTIVE JAMMERS																																	
1.2) ALE-55 (FOTD) ⁽²⁾																																	
Prior Years Deliveries: 1421																																	
	8	2015	NAVY	.283	.283	-																								-			
	8	2016	NAVY	.284	.237	.047	.024	.023																						-			
	8	2017	NAVY	.261	-	.261	-	-	.022	.022	.022	.022	.022	.022	.022	.022	.022	.021	.021	.021										-			
2) IR DECOYS																																	
2.5) MJU-57																																	
Prior Years Deliveries: 154173																																	
✓	9	2014	NAVY	42.932	42.932	-																								-			
✓	9	2015	NAVY	17.594	17.594	-																								-			
	9	2016	NAVY	8.513	8.513	-																								-			
✓	9	2016	NAVY	10.948	10.948	-																								-			
	9	2017	NAVY	6.857	-	6.857	2.286	2.286	2.285																					-			
2.6) MJU-61 ⁽⁵⁾																																	
Prior Years Deliveries: 26193																																	
✓	10	2015	NAVY	19.476	19.476	-																								-			
	11	2016	NAVY	8.842	4.917	3.925	.785	.785	.785	.785	.785																			-			
✓	11	2016	NAVY	.495	.495	-																								-			
	11	2017	NAVY	19.508	-	19.508	-	-	-	1.625	1.625	1.625	1.625	1.626	1.626	1.626	1.626	1.626	1.626	1.626	1.626	1.626								-			
2.8) MJU-66 ⁽⁷⁾																																	
	12	2013	NAVY	18.975	18.975	-																								-			
	12	2013	AF ⁽⁴⁾	62.468	62.468	-																								-			
	12	2013	Total	81.443	81.443	-																								-			
	12	2014	NAVY	19.357	19.357	-																								-			
	12	2014	AF ⁽⁴⁾	16.800	16.800	-																								-			
	12	2014	Total	36.157	36.157	-																								-			
	12	2015	NAVY	19.746	19.746	-																								-			
	12	2015	AF ⁽⁴⁾	100.800	100.800	-																								-			
	12	2015	Total	120.546	120.546	-																								-			
	12	2016	NAVY	19.044	15.884	3.160	1.580	1.580																						-			
	12	2017	NAVY	18.872	-	18.872	-	-	1.572	1.572	1.572	1.572	1.573	1.573	1.573	1.573	1.573	1.573	1.573	1.573	1.573									-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0182 / Air Expendable Countermeasures **Aggregated Items:** Air Expendable Countermeasures ⁽¹⁾

Items <i>(Units in Thousands)</i>					Fiscal Year 2018														Fiscal Year 2019												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018														Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
2.9) MJU-67 ⁽⁸⁾																																	
	13	2014	NAVY	5.261	5.261	-																											
	13	2015	NAVY	9.220	9.220	-																											
	13	2017	NAVY	13.763	-	13.763	-	-	-	-	-	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	.563				
✓	13	2017	NAVY	17.738	-	17.738	-	-	-	-	-	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.238					
2.10) SM875																																	
Prior Years Deliveries: 625917																																	
✓	14	2014	NAVY	460.695	460.695	-																											
✓	14	2015	NAVY	310.144	310.144	-																											
	14	2016	NAVY	172.174	168.960	3.214	3.214																										
✓	14	2016	NAVY	348.726	319.666	29.060	29.060																										
	14	2017	NAVY	134.783	-	134.783	9.042	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431	11.431					
3) IMPULSE CARTRIDGES																																	
3.1) CCU-136																																	
Prior Years Deliveries: 3314039																																	
	15	2014	NAVY	423.933	423.933	-																											
✓	15	2014	NAVY	998.976	998.976	-																											
	15	2015	NAVY	300.265	300.265	-																											
✓	15	2015	NAVY	328.647	328.647	-																											
	15	2016	NAVY	407.012	237.419	169.593	33.917	33.917	33.917	33.917	33.917	33.925																					
✓	15	2016	NAVY	219.481	151.200	68.281	21.600	21.600	21.600	2.446	1.035																						
	15	2017	NAVY	406.122	-	406.122	-	-	-	-	-	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843	33.843					
4) CHAFF COUNTERMEASURES																																	
4.1) RR-129 ⁽¹⁰⁾																																	
Prior Years Deliveries: 253110																																	
	16	2015	NAVY	90.086	90.086	-																											
	16	2016	NAVY	135.589	135.589	-																											
	16	2017	NAVY	39.224	13.200	26.024	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300	2.924					
5) F-35 COUNTERMEASURES																																	
5.1) ALE-70 ⁽¹⁴⁾																																	
Prior Years Deliveries: 340																																	
	17	2014	NAVY	.132	.132	-																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0182 / Air Expendable Countermeasures
		Aggregated Items: Air Expendable Countermeasures ⁽¹⁾

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BAE SYSTEMS - NASHUA, NH	72	360	600	-	3	13	16	-	2	13	15
2	CRANE ARMY AMMUNITION ACTIVITY - CRANE, IN	12,000	86,400	129,000	-	-	-	-	-	7	6	13
3	CRANE ARMY AMMUNITION ACTIVITY - CRANE, IN	12,000	86,400	129,000	-	14	3	17	-	7	4	11
4	TBD ⁽¹⁸⁾ - TBD	-	-	-	-	9	9	18	-	9	7	16
5	ALLOY SURFACES, INC. - ASTON, PA	15,000	100,800	201,600	-	11	6	17	-	9	6	15
6	Esterline Defense Technologies - Camden, AR	5,000	20,000	35,000	-	6	6	12	-	9	8	17
7	ARMTEC DEFENSE, INC. - COACHELLA, CA	66,000	230,400	537,600	-	8	6	14	-	7	6	13
8	CAPCO, INC - GRAND JUNCTION, CO	220,000	1,296,000	1,555,200	-	9	9	18	-	8	10	18
9	ARMTEC DEFENSE, INC. - COACHELLA, CA	100,000	345,600	1,409,650	-	6	6	12	-	6	3	9
10	BAE SYSTEMS - NASHUA, NH	120	360	3,600	-	8	13	21	-	7	13	20
11	BAE SYSTEMS - NASHUA, NH	1,000	3,000	12,000	-	8	10	18	-	8	10	18
12	BAE SYSTEMS - NASHUA, NH	1,000	3,000	12,000	-	8	10	18	-	8	10	18

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

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

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

Footnotes:

⁽¹⁸⁾ MJU-61 FY16 annual production rates TBD pending contract award.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.711	-	2.806	2.735	-	2.735	2.889	2.943	3.002	3.066	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	61.711	-	2.806	2.735	-	2.735	2.889	2.943	3.002	3.066	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.711	-	2.806	2.735	-	2.735	2.889	2.943	3.002	3.066	Continuing	Continuing

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

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

Description:

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition

P-1 Line Item Number / Title:
0194 / Jet Assisted Take Off (JATOs)

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Jet Assisted Take Off (JATOs)	P-5a, P-21		- / 61.711	- / -	- / 2.806	- / 2.735	- / -	- / 2.735
P-40	Total Gross/Weapon System Cost			- / 61.711	- / -	- / 2.806	- / 2.735	- / -	- / 2.735

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
The decrease in FY2017 funding of \$0.145M for Jet Assisted Take Off is required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The FY 2017 baseline funding is required for MK117 procurement to enable continued BQM-74 target operations. Funding supports deliveries to match the anticipated expenditures to support the Navy surface fleet to conduct pre-deployment training.

Other Cost includes Production Engineering Support (PES), Integrated Logistics Support (ILS), Reliability Life (i.e. Safety and Product Improvement Program (PIP), Quality Assurance and Acceptance Testing.

The MK-117 Jet Assisted Take-Off (JATO) motor production has been on hold as a result of a failure in the rocket motor propellant grain qualification testing. As a result of an Engineering Investigation (EI) and First Article Test (FAT) of reformatted propellant grains, a production restart is expected in second quarter of FY 2016.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0194 / Jet Assisted Take Off (JATOs) **Aggregated Items Title:** Jet Assisted Take Off (JATOs)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) JATO																				
1.1) Mk 117 MOD O ROCKET MOTORS ^(†)	A		3,031.00	14,869	45.068	-	-	-	5,865.71	417	2.446	5,983.21	397	2.375	-	-	-	5,983.21	397	2.375
Subtotal: 1) JATO			-	-	45.068	-	-	-	-	-	2.446	-	-	2.375	-	-	-	-	-	2.375
2) Support																				
2.1) OTHER COSTS	A		-	-	16.643	-	-	-	-	-	0.360	-	-	0.360	-	-	-	-	-	0.360
Subtotal: 2) Support			-	-	16.643	-	-	-	-	-	0.360	-	-	0.360	-	-	-	-	-	0.360
Total			-	-	61.711	-	-	-	-	-	2.806	-	-	2.735	-	-	-	-	-	2.735

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

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)	Aggregated Items: Jet Assisted Take Off (JATOs)
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) JATO												
1.1) Mk 117 MOD O ROCKET MOTORS ^(f)		2011 ⁽¹⁾	NSWC INDIAN HEAD DIV / Indian Head, MD	PO	NSWC	Oct 2010	Mar 2016	428	4,969.63	Y		
1.1) Mk 117 MOD O ROCKET MOTORS ^(f)		2012	NSWC INDIAN HEAD DIV / Indian Head, MD	PO	NSWC	Feb 2012	Aug 2016	338	4,881.66	Y		
1.1) Mk 117 MOD O ROCKET MOTORS ^(f)		2013	NSWC INDIAN HEAD DIV / Indian Head, MD	PO	NSWC	Oct 2013	Oct 2016	228	5,684.21	Y		
1.1) Mk 117 MOD O ROCKET MOTORS ^(f)		2014	NSWC INDIAN HEAD DIV / Indian Head, MD	PO	NSWC	Dec 2013	Dec 2016	422	5,661.21	Y		
1.1) Mk 117 MOD O ROCKET MOTORS ^(f)		2016	NSWC INDIAN HEAD DIV / Indian Head, MD	PO	NSWC	Feb 2016	Jun 2017	417	5,865.71	Y		
1.1) Mk 117 MOD O ROCKET MOTORS ^(f)		2017	NSWC INDIAN HEAD DIV / Indian Head, MD	PO	NSWC	Dec 2016	Jun 2018	397	5,983.21	Y		

^(f) indicates the presence of a P-21

Footnotes:

⁽¹⁾ Nominal manufacturing lead-time is 18 months, but FY2011 - FY2014 production units were delayed due to propellant grain manufacturing issues. As a result of an Engineering Investigation (EI) and First Article Test (FAT) of reformatted propellant grains, a production restart is expected in second quarter of FY16. NSWC production capacity supports delivery of FY2011-FY2014 units starting in FY2016, with completion in FY2018.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0194 / Jet Assisted Take Off (JATOs) **Aggregated Items:** Jet Assisted Take Off (JATOs)

Items <i>(Units in Each)</i>					Fiscal Year 2011													Fiscal Year 2012													BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011													Calendar Year 2012													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1) JATO																																	
1.1) Mk 117 MOD O ROCKET MOTORS																																	
Prior Years Deliveries: 13453																																	
20	2011	NAVY	428	-	428	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	428			
20	2012	NAVY	338	-	338																									338			
20	2013	NAVY	228	-	228																									228			
20	2014	NAVY	422	-	422																									422			
20	2016	NAVY	417	-	417																									417			
20	2017	NAVY	397	-	397																									397			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0194 / Jet Assisted Take Off (JATOs) **Aggregated Items:** Jet Assisted Take Off (JATOs)

Items <i>(Units in Each)</i>					Fiscal Year 2013													Fiscal Year 2014													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013													Calendar Year 2014													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1) JATO																																	
1.1) Mk 117 MOD O ROCKET MOTORS																																	
Prior Years Deliveries: 13453																																	
20	2011	NAVY	428	-	428	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	428	
20	2012	NAVY	338	-	338	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	338	
20	2013	NAVY	228	-	228													A -	-	-	-	-	-	-	-	-	-	-	-	-	228		
20	2014	NAVY	422	-	422															A -	-	-	-	-	-	-	-	-	-	-	422		
20	2016	NAVY	417	-	417																										417		
20	2017	NAVY	397	-	397																										397		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0194 / Jet Assisted Take Off (JATOs) **Aggregated Items:** Jet Assisted Take Off (JATOs)

Items <i>(Units in Each)</i>					Fiscal Year 2015													Fiscal Year 2016													BALANCE				
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
1) JATO																																			
1.1) Mk 117 MOD O ROCKET MOTORS																																			
Prior Years Deliveries: 13453																																			
20	2011	NAVY	428	-	428	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	2012	NAVY	338	-	338	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169	169	-	
20	2013	NAVY	228	-	228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	228	
20	2014	NAVY	422	-	422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	422	
20	2016	NAVY	417	-	417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	417
20	2017	NAVY	397	-	397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	397

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0194 / Jet Assisted Take Off (JATOs) **Aggregated Items:** Jet Assisted Take Off (JATOs)

Items <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018												BALANCE							
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P					
1) JATO																																				
1.1) Mk 117 MOD O ROCKET MOTORS																																				
Prior Years Deliveries: 13453																																				
20		2011	NAVY	428	428	-																												-		
20		2012	NAVY	338	338	-																												-		
20		2013	NAVY	228	-	228	114	114																										-		
20		2014	NAVY	422	-	422	-	-	211	211																								-		
20		2016	NAVY	417	-	417	-	-	-	-	-	-	-	-	34	34	34	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35		-		
20		2017	NAVY	397	-	397			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	33	33	33	264
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0194 / Jet Assisted Take Off (JATOs) **Aggregated Items:** Jet Assisted Take Off (JATOs)

Items <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1) JATO																																	
1.1) Mk 117 MOD O ROCKET MOTORS																																	
Prior Years Deliveries: 13453																																	
20		2011	NAVY	428	428	-																							-				
20		2012	NAVY	338	338	-																								-			
20		2013	NAVY	228	228	-																								-			
20		2014	NAVY	422	422	-																								-			
20		2016	NAVY	417	417	-																								-			
20		2017	NAVY	397	133	264	33	33	33	33	33	33	33	33	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	-		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0194 / Jet Assisted Take Off (JATOs)	Aggregated Items: Jet Assisted Take Off (JATOs)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	NSWC INDIAN HEAD DIV - Indian Head, MD	200	500	6,000	-	-	-	-	-	-	3	18	21

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0198 / LRLAP 155MM Long Range Land Attack Projectile
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0204202N
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.132	113.092	5.675	-	-	-	51.620	58.489	46.956	48.178	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.132	113.092	5.675	-	-	-	51.620	58.489	46.956	48.178	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.132	113.092	5.675	-	-	-	51.620	58.489	46.956	48.178	Continuing	Continuing

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

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

Description:

Program provides the Long Range Land Attack Projectile (LRLAP) to support MK 51 Gun Weapon System (GWS) munitions requirements for the DDG-1000 Class destroyer. LRLAP is a 155mm diameter, GPS-guided, rocket-assisted projectile that contains a high explosive unitary warhead with dual fuzing modes. Each round is 88 inches in length and weighs 230 pounds. LRLAP and propelling charges are stored in munitions containers, which are cycled for gun firing through two automated magazines on DDG-1000. Each munitions container holds eight propelling charges and eight LRLAPs (or inert projectiles). The full magazine loadout for DDG-1000 is 600 LRLAP rounds, stored in 75 munitions containers. The MK 51 GWS includes two gun mounts, each of which is capable of firing 10 LRLAPs/minute.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0198 / LRLAP 155MM Long Range Land Attack Projectile
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0204202N
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	LONG RANGE ATTACK PROJECTILE (LRLAP)	P-5a, P-21		- / 3.132	- / 113.092	- / 5.675	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 3.132	- / 113.092	- / 5.675	- / -	- / -	- / -

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy														Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1							P-1 Line Item Number / Title: 0198 / LRLAP 155MM Long Range Land Attack Projectile							Aggregated Items Title: LONG RANGE ATTACK PROJECTILE (LRLAP)					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) AM100 HARDWARE																				
1.1) LRLAP (EX-192) - Guided Projectiles ^(†)	A		-	-	-	476,946.67	150	71.542	-	-	-	-	-	-	-	-	-	-	-	-
1.3) MUNITIONS CONTAINER (EX-813) ^(†)	A		-	-	-	408,900.00	20	8.178	-	-	-	-	-	-	-	-	-	-	-	-
1.4) PROPELLING CHARGE (EX-181) ^(†)	A		-	-	-	18,353.07	473	8.681	-	-	-	-	-	-	-	-	-	-	-	-
1.6) LRLAP PRODUCTION NON-RECURRING ⁽¹⁾	A		-	-	3.132	-	-	22.133	-	-	3.100	-	-	-	-	-	-	-	-	-
Subtotal: 1) AM100 HARDWARE			-	-	3.132	-	-	110.534	-	-	3.100	-	-	-	-	-	-	-	-	-
2) AM830 PRODUCTION ENGINEERING																				
2.1) PRODUCTION ENGINEERING ⁽²⁾	A		-	-	-	-	-	2.558	-	-	2.575	-	-	-	-	-	-	-	-	-
Subtotal: 2) AM830 PRODUCTION ENGINEERING			-	-	0.000	-	-	2.558	-	-	2.575	-	-	-	-	-	-	-	-	-
Total			-	-	3.132	-	-	113.092	-	-	5.675	-	-	-	-	-	-	-	-	-

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

^(†) indicates the presence of a P-5a

Footnotes:

⁽¹⁾ Production non-recurring supports tooling fabrication and tasks to establish production and scale manufacturing processes. These include establishing an assembly line for the Guidance Navigation Control electronic assembly and modification/retooling at the integration facility site for All-Up-Round assembly. It also provides engineering change and requalification to address obsolescence.

⁽²⁾ Production Lead Times on EX 192 LRLAP projectile, EX 813 Munitions Container, and EX 187 Propelling Charge exceed 1 year. Production engineering includes required technical oversight to support acquisition planning and execution, configuration management, adjudicate issues with hardware fabrication, address obsolescence issues, and ensure the quality of the delivered hardware upon acceptance.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0198 / LRLAP 155MM Long Range Land Attack Projectile	Aggregated Items: LONG RANGE ATTACK PROJECTILE (LRLAP)
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) AM100 HARDWARE												
1.1) LRLAP (EX-192) - Guided Projectiles ^(†)		2015	Lockheed Martin Corporation / Florida	SS / FPIF	NAVSEA	May 2016	Dec 2017	150	476,946.67	Y		Oct 2014
1.3) MUNITIONS CONTAINER (EX-813) ^(†)		2015	BAE SYSTEMS INC / MINNESOTA	SS / FPIF	NAVSEA	Jun 2016	Oct 2017	20	408,900.00	Y		Apr 2015
1.4) PROPELLING CHARGE (EX-181) ^(†)		2015	BAE SYSTEMS INC / MINNESOTA	SS / FPIF	NAVSEA	Jun 2016	Oct 2017	473	18,353.07	Y		Apr 2015

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0198 / LRLAP 155MM Long Range Land Attack Projectile										Aggregated Items: LONG RANGE ATTACK PROJECTILE (LRLAP)				

Items <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1) AM100 HARDWARE																															
1.1) LRLAP (EX-192) - Guided Projectiles																															
21		2015	NAVY	150	-	150																							150		
1.3) MUNITIONS CONTAINER (EX-813)																															
22		2015	NAVY	20 ⁽³⁾	-	20																							20		
1.4) PROPELLING CHARGE (EX-181)																															
23		2015	NAVY	473	-	473																							473		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0198 / LRLAP 155MM Long Range Land Attack Projectile										Aggregated Items: LONG RANGE ATTACK PROJECTILE (LRLAP)				

Items <i>(Units in Each)</i>					Fiscal Year 2018												Fiscal Year 2019												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
1) AM100 HARDWARE																															
1.1) LRLAP (EX-192) - Guided Projectiles																															
21	2015	NAVY		150	-	150	-	-	24	24	24	24	24	24	6														-		
1.3) MUNITIONS CONTAINER (EX-813)																															
22	2015	NAVY		20 ⁽³⁾	-	20	3	3	4	3	3	4																	-		
1.4) PROPELLING CHARGE (EX-181)																															
23	2015	NAVY		473	-	473	473																						-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0198 / LRLAP 155MM Long Range Land Attack Projectile
		Aggregated Items: LONG RANGE ATTACK PROJECTILE (LRLAP)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin Corporation - Florida	144	288	576	10	3	19	22	6	6	17	23
2	BAE SYSTEMS INC - MINNESOTA	10	40	40	3	3	16	19	6	6	18	24
3	BAE SYSTEMS INC - MINNESOTA	400	12,000	12,000	10	3	16	19	6	6	18	24

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

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

Footnotes:

⁽³⁾ Decrease in Manufacturing PLT is due to actual lead times achieved during builds of test articles for DDG 1000 IOTE.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	177.883	35.702	40.994	19.220	-	19.220	22.128	29.547	28.767	29.547	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	177.883	35.702	40.994	19.220	-	19.220	22.128	29.547	28.767	29.547	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	177.883	35.702	40.994	19.220	-	19.220	22.128	29.547	28.767	29.547	Continuing	Continuing

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

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

Description:

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition

P-1 Line Item Number / Title:
0250 / 5 Inch/54 Gun Ammunition

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / 5 Inch/54 Gun Ammunition	P-5a, P-21		- / 177.883	- / 35.702	- / 40.994	- / 19.220	- / -	- / 19.220
P-40	Total Gross/Weapon System Cost			- / 177.883	- / 35.702	- / 40.994	- / 19.220	- / -	- / 19.220

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

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

Justification:
FY 2017 decrease by \$1 million to 5 Inch/54 Gun Ammunition as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 baseline funding is required to procure 5"/54 ammunition, including propelling charges, high explosive projectiles, and training projectiles. 5"/54 ammunition is used in conjunction with the MK34 Gun Weapon System on DDG51 and CG47 platforms to provide Naval Surface Fire Support, Anti Air Warfare, Anti Surface Warfare, and Fast Attack Craft/Fast In-Shore Attack Craft (FAC/FIAC) defense.

Baseline program also funds Production Engineering and Gauge requirements for all 5"/54 ammunition. FY 2017 Product Improvement Program will address obsolescence of the Monolithic Microwave Integrated Circuit (MMIC) used in the fuze of the 5"/54 Proj Multi Option Fuze (DA48). Restructured program in FY 2016 and FY 2017 to procure new fuzes for renovation. Renovation funds will procure new MK419 Fuzes for renovation of existing High Explosive Projectiles with fuzes which are unserviceable due to age.

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

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

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	177.883	35.702	40.994	19.220	-	19.220
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	177.883	35.702	40.994	19.220	-	19.220
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	177.883	35.702	40.994	19.220	-	19.220

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - AC100 5"/54 AMMUNITION HARDWARE Cost																		
Recurring Cost																		
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296) ^(†)	1,077.98	218	0.235	1,095.24	273	0.299	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)	906.88	46,992	42.616	907.75	18,330	16.639	925.93	8,991	8.325	944.42	8,385	7.919	-	-	-	944.42	8,385	7.919
1.1.3) 5"54 PROJ, BLP/T (D349) ^(†)	420.37	19,240	8.088	438.94	9,024	3.961	442.78	16,128	7.141	465.61	6,912	3.218	-	-	-	465.61	6,912	3.218
1.1.4) 5"/54 PROJ, MULTI OPTION FUZE (DA48) ^(†)	1,914.08	23,952	45.846	2,071.71	4,992	10.342	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) TRANSPORTATION ACCT CODE	-	-	1.794	-	-	0.314	-	-	0.250	-	-	0.289	-	-	-	-	-	0.289
1.1.6) PE/QA SMCA	-	-	1.071	-	-	0.164	-	-	0.039	-	-	0.050	-	-	-	-	-	0.050
1.1.7) PRIOR YEARS CUMULATIVE FUNDING	-	-	25.388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	125.038	-	-	31.719	-	-	15.755	-	-	11.476	-	-	-	-	-	11.476
<i>Subtotal: Hardware - AC100 5"/54 AMMUNITION HARDWARE Cost</i>	-	-	125.038	-	-	31.719	-	-	15.755	-	-	11.476	-	-	-	-	-	11.476
Hardware - AC850 PRODUCT IMPROVEMENT Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition	Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1.1) PRODUCT IMPROVEMENT (1)	-	-	14.445	-	-	0.740	-	-	1.096	-	-	0.939	-	-	-	-	-	0.939
<i>Subtotal: Recurring Cost</i>	-	-	14.445	-	-	0.740	-	-	1.096	-	-	0.939	-	-	-	-	-	0.939
<i>Subtotal: Hardware - AC850 PRODUCT IMPROVEMENT Cost</i>	-	-	14.445	-	-	0.740	-	-	1.096	-	-	0.939	-	-	-	-	-	0.939
Hardware - AC893 RENOVATION COMPONENTS Cost																		
<i>Recurring Cost</i>																		
3.1.1) RENOVATION COMPONENTS (2)	-	-	12.294	-	-	-	-	-	20.832	-	-	3.375	-	-	-	-	-	3.375
<i>Subtotal: Recurring Cost</i>	-	-	12.294	-	-	-	-	-	20.832	-	-	3.375	-	-	-	-	-	3.375
<i>Subtotal: Hardware - AC893 RENOVATION COMPONENTS Cost</i>	-	-	12.294	-	-	-	-	-	20.832	-	-	3.375	-	-	-	-	-	3.375
Hardware - AC894 GAUGE REQUIREMENTS Cost																		
<i>Recurring Cost</i>																		
4.1.1) GAUGE REQUIREMENTS	-	-	2.545	-	-	0.213	-	-	0.270	-	-	0.340	-	-	-	-	-	0.340
<i>Subtotal: Recurring Cost</i>	-	-	2.545	-	-	0.213	-	-	0.270	-	-	0.340	-	-	-	-	-	0.340
<i>Subtotal: Hardware - AC894 GAUGE REQUIREMENTS Cost</i>	-	-	2.545	-	-	0.213	-	-	0.270	-	-	0.340	-	-	-	-	-	0.340
Hardware - ACG86 Overseas Contingency Operations (OCO) Cost																		
<i>Non Recurring Cost</i>																		
5.1.1) Overseas Contingency Operations (OCO)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - ACG86 Overseas Contingency Operations (OCO) Cost</i>	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - AC830 PRODUCTION ENGINEERING Cost																		
6.1) PRODUCTION ENGINEERING	-	-	23.560	-	-	3.030	-	-	3.041	-	-	3.090	-	-	-	-	-	3.090
<i>Subtotal: Support - AC830 PRODUCTION ENGINEERING Cost</i>	-	-	23.560	-	-	3.030	-	-	3.041	-	-	3.090	-	-	-	-	-	3.090
Gross/Weapon System Cost	-	-	177.883	-	-	35.702	-	-	40.994	-	-	19.220	-	-	-	-	-	19.220

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition	Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>Remarks:</p> <p>[Hardware] AC100: 5"54 AMMUNITION HARDWARE - Procures components, load and assemble complete rounds and provides funds to conduct acceptance tests. Costs associated with Transportation Account Code (TAC) are for first destination of delivery of production items. Unit costs and quantities are adjusted during year of execution.</p> <p>[Hardware] AC850: PRODUCT IMPROVEMENT - Provides engineering services and related efforts by government activities, the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope.</p> <p>[Hardware] AC893: RENOVATION COMPONENTS - Provides for renovation components used to upgrade unserviceable rounds into ready-for-issue condition.</p> <p>[Hardware] AC894: GAUGE REQUIREMENTS - Provides for procurement of gauges, auxiliary and test equipment and support costs necessary for ammunition metrology to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p>[Hardware] ACG86: OVERSEAS CONTIGENCY OPERATIONS (OCO) - Provides for procurement of ammunition with OCO funding.</p> <p>[Support Cost] AC830: PRODUCTION ENGINEERING - Provides for production engineering services.</p> <p>(t) indicates the presence of a P-5a</p> <p>Footnotes:</p> <p>(1) FY 2017 Product Improvement Program will address obsolescence of the Monolithic Microwave Integrated Circuit (MMIC) used in the fuze of the 5"/54 Proj Multi Option Fuze (DA48).</p> <p>(2) AC893 Renovation Components Cost: FY 2016 and FY 2017 funding required to procure new Multi-Function Fuzes to support renovation of existing High Explosive Projectiles inventory which are unserviceable due to age.</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition	Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296) ^(†)		2014	MCALESTER AAP / MCALESTER, OK	MIPR	NO PCO	Jun 2014	Feb 2017	218	1,077.98	Y		Nov 2013
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296) ^(†)		2015	MCALESTER AAP / MCALESTER, OK	MIPR	NO PCO	Mar 2015	Feb 2017	273	1,095.24	Y		Nov 2014
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		2012 ⁽³⁾	MCALESTER AAP / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Mar 2012	Jan 2016	8,307	985.07	Y		Nov 2011
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		2013	MCALESTER AAP / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Jun 2013	Feb 2016	20,504	872.51	Y		Nov 2012
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		2014	MCALESTER AAP / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Jun 2014	May 2016	15,881	889.30	Y		Nov 2013
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		2015	MCALESTER AAP / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Mar 2015	Jan 2018	18,330	907.75	Y		Nov 2014
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		2016	MCALESTER AAP / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Mar 2016	Aug 2018	8,991	925.93	Y		Nov 2015
1.1.2) 5/54 CHG, PROP, FULL (D326) ^(†)		2017	MCALESTER AAP / MCALESTER, OK	C / FFP	JMC ROCK ISLAND	Mar 2017	Sep 2019	8,385	944.42	N	Apr 2016	Nov 2016
1.1.3) 5"54 PROJ, BLP/T (D349) ^(†)		2013	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Jun 2013	Dec 2014	12,063	416.98	Y		Nov 2012
1.1.3) 5"54 PROJ, BLP/T (D349) ^(†)		2014	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	May 2014	Mar 2015	7,177	426.08	Y		Nov 2013
1.1.3) 5"54 PROJ, BLP/T (D349) ^(†)		2015	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2015	Jun 2016	9,024	438.94	Y		Oct 2014
1.1.3) 5"54 PROJ, BLP/T (D349) ^(†)		2016	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2016	Apr 2017	16,128	442.78	Y		Nov 2015
1.1.3) 5"54 PROJ, BLP/T (D349) ^(†)		2017	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2017	Apr 2018	6,912	465.61	N	Apr 2016	Oct 2016
1.1.4) 5"/54 PROJ, MULTI OPTION FUZE (DA48) ^(†)		2011	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Aug 2011	Mar 2016	13,488	1,882.78	Y		Nov 2010
1.1.4) 5"/54 PROJ, MULTI OPTION FUZE (DA48) ^(†)		2013	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Apr 2014	Oct 2016	10,464	1,954.42	Y		Nov 2012
1.1.4) 5"/54 PROJ, MULTI OPTION FUZE (DA48) ^(†)		2015	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	JMC ROCK ISLAND	Mar 2015	Jul 2017	4,992	2,071.71	Y		Oct 2014

^(†) indicates the presence of a P-21

Footnotes:

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
1508N / 01 / 1	0250 / 5 Inch/54 Gun Ammunition	1 / 5 Inch/54 Gun Ammunition

⁽³⁾ FY 2012/FY 2013 - D326 - Delivery delay attributed to propellant manufacutring delay. Manufacturer failed initial testing but subsequently passed and is now in production.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition	Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2011												Fiscal Year 2012												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011												Calendar Year 2012												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296)																															
	1	2014	NAVY	.218	-	.218																						.218			
	1	2015	NAVY	.273	-	.273																						.273			
1.1.2) 5/54 CHG, PROP, FULL (D326)																															
Prior Years Deliveries: 2300																															
	2	2012	NAVY	8.307	-	8.307																						8.307			
	3	2013	NAVY	20.504	-	20.504																						20.504			
	2	2014	NAVY	15.881	-	15.881																						15.881			
	4	2015	NAVY	18.330	-	18.330																						18.330			
	4	2016	NAVY	8.991	-	8.991																						8.991			
	3	2017	NAVY	8.385	-	8.385																						8.385			
1.1.3) 5"54 PROJ, BLP/T (D349)																															
	6	2013	NAVY	12.063	-	12.063																						12.063			
	5	2014	NAVY	7.177	-	7.177																						7.177			
	7	2015	NAVY	9.024	-	9.024																						9.024			
	7	2016	NAVY	16.128	-	16.128																						16.128			
	7	2017	NAVY	6.912	-	6.912																						6.912			
1.1.4) 5"54 PROJ, MULTI OPTION FUZE (DA48)																															
	8	2011	NAVY	13.488	-	13.488																						13.488			
	9	2013	NAVY	10.464	-	10.464																						10.464			
	10	2015	NAVY	4.992	-	4.992																						4.992			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0250 / 5 Inch/54 Gun Ammunition **Item Number / Title [DODIC]:** 1 / 5 Inch/54 Gun Ammunition

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2013												Fiscal Year 2014												B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296)																																			
	1	2014	NAVY	.218	-	.218																													
	1	2015	NAVY	.273	-	.273																													
1.1.2) 5/54 CHG, PROP, FULL (D326)																																			
Prior Years Deliveries: 2300																																			
	2	2012	NAVY	8.307	-	8.307																													
	3	2013	NAVY	20.504	-	20.504																													
	2	2014	NAVY	15.881	-	15.881																													
	4	2015	NAVY	18.330	-	18.330																													
	4	2016	NAVY	8.991	-	8.991																													
	3	2017	NAVY	8.385	-	8.385																													
1.1.3) 5"54 PROJ, BLP/T (D349)																																			
	6	2013	NAVY	12.063	-	12.063																													
	5	2014	NAVY	7.177	-	7.177																													
	7	2015	NAVY	9.024	-	9.024																													
	7	2016	NAVY	16.128	-	16.128																													
	7	2017	NAVY	6.912	-	6.912																													
1.1.4) 5"54 PROJ, MULTI OPTION FUZE (DA48)																																			
	8	2011	NAVY	13.488	-	13.488																													
	9	2013	NAVY	10.464	-	10.464																													
	10	2015	NAVY	4.992	-	4.992																													

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition	Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2015														Fiscal Year 2016												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296)																																	
	1	2014	NAVY	.218	-	.218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.218					
	1	2015	NAVY	.273	-	.273																						.273					
1.1.2) 5/54 CHG, PROP, FULL (D326)																																	
Prior Years Deliveries: 2300																																	
	2	2012	NAVY	8.307	-	8.307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.000	3.307						-					
	3	2013	NAVY	20.504	-	20.504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	10.000	.504				-					
	2	2014	NAVY	15.881	-	15.881	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	5.881			-					
	4	2015	NAVY	18.330	-	18.330																					18.330						
	4	2016	NAVY	8.991	-	8.991																					8.991						
	3	2017	NAVY	8.385	-	8.385																					8.385						
1.1.3) 5"54 PROJ, BLP/T (D349)																																	
	6	2013	NAVY	12.063	-	12.063	-	-	6.000	6.063																	-						
	5	2014	NAVY	7.177	-	7.177	-	-	-	-	7.177																-						
	7	2015	NAVY	9.024	-	9.024																					-						
	7	2016	NAVY	16.128	-	16.128																					16.128						
	7	2017	NAVY	6.912	-	6.912																					6.912						
1.1.4) 5"54 PROJ, MULTI OPTION FUZE (DA48)																																	
	8	2011	NAVY	13.488	-	13.488	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	1.488	-				
	9	2013	NAVY	10.464	-	10.464	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.464						
	10	2015	NAVY	4.992	-	4.992																					4.992						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition	Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2017													Fiscal Year 2018													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296)																																	
	1	2014	NAVY	.218	-	.218	-	-	-	-	-	.218																					
	1	2015	NAVY	.273	-	.273	-	-	-	-	-	.273																					
1.1.2) 5/54 CHG, PROP, FULL (D326)																																	
Prior Years Deliveries: 2300																																	
	2	2012	NAVY	8.307	8.307	-																											
	3	2013	NAVY	20.504	20.504	-																											
	2	2014	NAVY	15.881	15.881	-																											
	4	2015	NAVY	18.330	-	18.330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	8.330									
	4	2016	NAVY	8.991	-	8.991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.000	3.991		
	3	2017	NAVY	8.385	-	8.385																											
1.1.3) 5"54 PROJ, BLP/T (D349)																																	
	6	2013	NAVY	12.063	12.063	-																											
	5	2014	NAVY	7.177	7.177	-																											
	7	2015	NAVY	9.024	9.024	-																											
	7	2016	NAVY	16.128	-	16.128	-	-	-	-	-	-	-	6.128	5.000	5.000																	
	7	2017	NAVY	6.912	-	6.912																								4.000	2.912		
1.1.4) 5"54 PROJ, MULTI OPTION FUZE (DA48)																																	
	8	2011	NAVY	13.488	13.488	-																											
	9	2013	NAVY	10.464	-	10.464	2.000	2.000	2.000	2.000	2.000	.464																					
	10	2015	NAVY	4.992	-	4.992	-	-	-	-	-	-	-	-	-	-	-	2.000	2.000	.992													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0250 / 5 Inch/54 Gun Ammunition	Item Number / Title [DODIC]: 1 / 5 Inch/54 Gun Ammunition
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2019													Fiscal Year 2020												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
1.1.1) 5"54 CHG, PROP, CLEARING, MK65 (D296)																																
	1	2014	NAVY	.218	.218	-																							-			
	1	2015	NAVY	.273	.273	-																							-			
1.1.2) 5/54 CHG, PROP, FULL (D326)																																
Prior Years Deliveries: 2300																																
	2	2012	NAVY	8.307	8.307	-																							-			
	3	2013	NAVY	20.504	20.504	-																							-			
	2	2014	NAVY	15.881	15.881	-																							-			
	4	2015	NAVY	18.330	18.330	-																							-			
	4	2016	NAVY	8.991	8.991	-																							-			
	3	2017	NAVY	8.385	-	8.385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.995	3.390							-			
1.1.3) 5"54 PROJ, BLP/T (D349)																																
	6	2013	NAVY	12.063	12.063	-																							-			
	5	2014	NAVY	7.177	7.177	-																							-			
	7	2015	NAVY	9.024	9.024	-																							-			
	7	2016	NAVY	16.128	16.128	-																							-			
	7	2017	NAVY	6.912	6.912	-																							-			
1.1.4) 5"54 PROJ, MULTI OPTION FUZE (DA48)																																
	8	2011	NAVY	13.488	13.488	-																							-			
	9	2013	NAVY	10.464	10.464	-																							-			
	10	2015	NAVY	4.992	4.992	-																							-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0250 / 5 Inch/54 Gun Ammunition **Item Number / Title [DODIC]:** 1 / 5 Inch/54 Gun Ammunition

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	MCALESTER AAP - MCALESTER, OK	5,000	60,000	120,000	12	12	32	44	-	12	23	35
2	MCALESTER AAP - MCALESTER, OK	5,000	60,000	120,000	6	6	46	52	6	6	23	29
3	MCALESTER AAP - MCALESTER, OK	5,000	60,000	120,000	6	6	30	36	6	6	32	38
4	MCALESTER AAP - MCALESTER, OK	5,000	60,000	120,000	6	6	29	35	6	6	34	40
5	CRANE ARMY AMMUNITION ACTIVITY - NSWC CRANE, IND	3,000	36,000	60,000	6	6	10	16	6	6	1	7
6	CRANE ARMY AMMUNITION ACTIVITY - NSWC CRANE, IND	3,000	36,000	60,000	6	6	18	24	6	6	21	27
7	CRANE ARMY AMMUNITION ACTIVITY - NSWC CRANE, IND	3,000	36,000	60,000	6	6	13	19	6	6	15	21
8	CRANE ARMY AMMUNITION ACTIVITY - NSWC CRANE, IND	3,000	24,000	30,000	6	6	55	61	6	6	23	29
9	CRANE ARMY AMMUNITION ACTIVITY - NSWC CRANE, IND	3,000	24,000	30,000	6	6	30	36	6	6	23	29
10	CRANE ARMY AMMUNITION ACTIVITY - NSWC CRANE, IND	3,000	24,000	30,000	6	6	28	34	6	6	28	34

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

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

Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	99.944	2.133	36.715	30.196	-	30.196	12.810	14.476	37.746	38.449	-	272.469
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	99.944	2.133	36.715	30.196	-	30.196	12.810	14.476	37.746	38.449	-	272.469
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	99.944	2.133	36.715	30.196	-	30.196	12.810	14.476	37.746	38.449	-	272.469

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

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

Description:

Program provides for intermediate caliber cartridge family of fixed round ammunition for use in shipboard intermediate caliber Gun Weapon Systems (GWS). The Navy's primary use for an intermediate caliber GWS is to engage both surface and air targets. United States Coast Guard's (USCG) primary use is drug interdiction, homeland defense, and Visit, Board, Search and Seize (VBSS). Intermediate caliber GWS are currently employed on US Navy Littoral Combat Ship (LCS), US Coast Guard Medium Endurance Cutters, and the USCG National Security Cutter.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo
---	--

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

Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
--------------------------------------	------------------------------------

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Intermediate Caliber Gun Ammo	P-5a, P-21		- / 99.944	- / 2.133	- / 36.715	- / 30.196	- / -	- / 30.196
P-40	Total Gross/Weapon System Cost			- / 99.944	- / 2.133	- / 36.715	- / 30.196	- / -	- / 30.196

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
 The FY 2017 funding request was reduced by \$260 thousand to account for the availability of prior year execution balances. Additional decrease by \$1.6 million to Intermediate Caliber Gun Ammo as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 baseline funding procures 57MM high explosive and training ammunition. 57MM ammunition is used in the MK110 Gun to provide Anti Air Warfare, Anti Surface Warfare and Fast Attack Craft/Fast Attack In-Shore Craft (FAC/FAIC) defense on USN LCS and USCG Maritime Security Cutter Large (WMSL) platforms. Baseline program also funds production engineering and gauge requirements for all 57MM ammunition.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0266 / Intermediate Caliber Gun Ammo **Aggregated Items Title:** Intermediate Caliber Gun Ammo

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) AL100 TRANSPORTATION ACCOUNT CODE ⁽¹⁾																				
1.1) TRANSPORTATION ACCOUNT CODE	A		-	-	0.179	-	-	0.067	-	-	0.061	-	-	0.069	-	-	-	-	-	0.069
Subtotal: 1) AL100 TRANSPORTATION ACCOUNT CODE			-	-	0.179	-	-	0.067	-	-	0.061	-	-	0.069	-	-	-	-	-	0.069
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE																				
2.1) CART., 57MM DUMMY, RAMMABLE (BA31)	A		-	-	0.392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)	A		4,811.68	12,877	61.960	-	-	-	4,279.26	5,776	24.717	4,365.61	3,431	14.978	-	-	-	4,365.61	3,431	14.978
2.3) CART., 57MM TP MK296 (BA23) ^(†)	A		2,837.77	9,869	28.006	-	-	-	1,150.01	8,333	9.583	1,173.05	10,893	12.778	-	-	-	1,173.05	10,893	12.778
Subtotal: 2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE			-	-	90.358	-	-	-	-	-	34.300	-	-	27.756	-	-	-	-	-	27.756
3) AL830 PRODUCTION ENGINEERING ⁽²⁾																				
3.1) PRODUCTION ENGINEERING	A		-	-	8.847	-	-	2.023	-	-	2.294	-	-	2.309	-	-	-	-	-	2.309
Subtotal: 3) AL830 PRODUCTION ENGINEERING			-	-	8.847	-	-	2.023	-	-	2.294	-	-	2.309	-	-	-	-	-	2.309
4) AL894 GAUGE REQUIREMENTS ⁽³⁾																				
4.1) GAUGE REQUIREMENTS	A		-	-	0.560	-	-	0.043	-	-	0.060	-	-	0.062	-	-	-	-	-	0.062
Subtotal: 4) AL894 GAUGE REQUIREMENTS			-	-	0.560	-	-	0.043	-	-	0.060	-	-	0.062	-	-	-	-	-	0.062
Total			-	-	99.944	-	-	2.133	-	-	36.715	-	-	30.196	-	-	-	-	-	30.196

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

(†) indicates the presence of a P-5a

Footnotes:

(1) AL100: Provides for complete rounds and conducts acceptance testing of intermediate caliber ammunition. Procurement includes intermediate caliber ammunition, all types, and includes high explosive service rounds, Target Practice and dummy rounds for this GWS. Unit costs and quantities are adjusted during year of execution. Provides for cost associated with Transportation Account Code (TAC) that are for first destination of delivery of production items.

(2) AL830: PRODUCTION ENGINEERING - Provides production engineering services.

(3) AL894: GAUGE REQUIREMENTS - Provides for procurement of gauges, auxiliary and test equipment and support costs necessary for ammunition metrology to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo	Aggregated Items: Intermediate Caliber Gun Ammo
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE												
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)		2013	BAE SYSTEMS / MINNESOTA	SS / FFP	Picatinny, NJ	Apr 2014	Jul 2016	2,500	6,790.47	Y		Aug 2013
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)		2014	BAE SYSTEMS / MINNESOTA	SS / FFP	NSWC-IH	May 2015	Aug 2018	6,360	4,113.40	Y		Oct 2014
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)		2016	BAE SYSTEMS / MINNESOTA	SS / FFP	Picatinny, NJ	Mar 2016	Apr 2019	5,776	4,279.26	Y		Jan 2016
2.2) CART., 57MM, 3P MK295 (BA22) ^(†)		2017	BAE SYSTEMS / MINNESOTA	SS / FFP	Picatinny, NJ	Mar 2017	Apr 2019	3,431	4,365.61	Y		Aug 2016
2.3) CART., 57MM TP MK296 (BA23) ^(†)		2016	TBD / TBD	C / FFP	Picatinny, NJ	Jun 2016	Jun 2018	8,333	1,150.01	Y		Feb 2016
2.3) CART., 57MM TP MK296 (BA23) ^(†)		2017 ⁽⁴⁾	TBD / TBD	C / FFP	Picatinny, NJ	Mar 2017	Oct 2018	10,893	1,173.05	Y		Feb 2016

^(†) indicates the presence of a P-21

Footnotes:

⁽⁴⁾ Option award on FY 2016 contract.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0266 / Intermediate Caliber Gun Ammo **Aggregated Items:** Intermediate Caliber Gun Ammo

Items <i>(Units in Thousands)</i>						Fiscal Year 2014												Fiscal Year 2015												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE																															
2.2) CART., 57MM, 3P MK295 (BA22)																															
Prior Years Deliveries: 4017																															
25		2013	NAVY	2.500	-	2.500																							2.500		
24		2014	NAVY	6.360	-	6.360																							6.360		
26		2016	NAVY	5.776	-	5.776																							5.776		
24		2017	NAVY	3.431	-	3.431																							3.431		
2.3) CART., 57MM TP MK296 (BA23)																															
Prior Years Deliveries: 9869																															
27		2016	NAVY	8.333	-	8.333																							8.333		
27		2017	NAVY	10.893	-	10.893																							10.893		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0266 / Intermediate Caliber Gun Ammo **Aggregated Items:** Intermediate Caliber Gun Ammo

Items <i>(Units in Thousands)</i>					Fiscal Year 2016												Fiscal Year 2017												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE																															
2.2) CART., 57MM, 3P MK295 (BA22)																															
Prior Years Deliveries: 4017																															
25	2013	NAVY		2.500	-	2.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
24	2014	NAVY		6.360	-	6.360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.360		
26	2016	NAVY		5.776	-	5.776																							5.776		
24	2017	NAVY		3.431	-	3.431																							3.431		
2.3) CART., 57MM TP MK296 (BA23)																															
Prior Years Deliveries: 9869																															
27	2016	NAVY		8.333	-	8.333																							8.333		
27	2017	NAVY		10.893	-	10.893																							10.893		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0266 / Intermediate Caliber Gun Ammo **Aggregated Items:** Intermediate Caliber Gun Ammo

Items <i>(Units in Thousands)</i>					Fiscal Year 2018												Fiscal Year 2019												BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
2) AL100 INTERMEDIATE CALIBER GUN AMMUNITION HARDWARE																															
2.2) CART., 57MM, 3P MK295 (BA22)																															
Prior Years Deliveries: 4017																															
25	2013	NAVY	2.500	2.500	-																										
24	2014	NAVY	6.360	-	6.360	-	-	-	-	-	-	-	-	-	-	6.360															
26	2016	NAVY	5.776	-	5.776	-	-	-	-	-	-	-	-	-	-	-											5.776				
24	2017	NAVY	3.431	-	3.431	-	-	-	-	-	-	-	-	-	-	-											3.431				
2.3) CART., 57MM TP MK296 (BA23)																															
Prior Years Deliveries: 9869																															
27	2016	NAVY	8.333	-	8.333	-	-	-	-	-	-	-	-	2.000	2.000	2.120	2.213														
27	2017	NAVY	10.893	-	10.893	-	-	-	-	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	.893									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0266 / Intermediate Caliber Gun Ammo	Aggregated Items: Intermediate Caliber Gun Ammo
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BAE SYSTEMS - MINNESOTA	5,000	12,600	35,280	6	6	25	31	6	6	39	45
2	BAE SYSTEMS - MINNESOTA	10,000	12,600	35,280	6	6	27	33	6	6	29	35
3	BAE SYSTEMS - MINNESOTA	2,300	7,500	15,000	6	8	37	45	6	6	18	24
4	TBD - TBD	2,300	7,500	15,000	6	6	24	30	6	6	19	25

"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 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	117.315	47.825	50.157	39.009	-	39.009	42.054	42.876	41.938	42.777	-	423.951
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	117.315	47.825	50.157	39.009	-	39.009	42.054	42.876	41.938	42.777	-	423.951
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	117.315	47.825	50.157	39.009	-	39.009	42.054	42.876	41.938	42.777	-	423.951

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

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

Description:

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

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Navy									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	47.768	50.100	38.956	-	38.956	41.998	42.819	41.883	42.721
NR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.057	0.057	0.053	-	0.053	0.056	0.057	0.055	0.056
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	47.825	50.157	39.009	-	39.009	42.054	42.876	41.938	42.777

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Integrated Warfare Systems	P-5a, P-21		- / 111.776	- / 41.908	- / 41.725	- / 35.242	- / -	- / 35.242
P-5	2 / Naval Special Warfare	P-5a, P-21		- / 5.539	- / 5.917	- / 8.432	- / 3.767	- / -	- / 3.767
P-40	Total Gross/Weapon System Cost			- / 117.315	- / 47.825	- / 50.157	- / 39.009	- / -	- / 39.009

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

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

Justification:
 The FY 2017 funding request was reduced by \$500 thousand to account for the availability of prior year execution balances. Additional decrease by \$2 million to Other Ship Gun Ammunition as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 baseline funding procures 20MM ammunition used for ship defense in MK15 Close-In Weapon System, 25MM ammunition used for Fast Attack Craft/Fast In-Shore Attack Craft (FAC/FIAC) defense in MK38 MOD 2 Machine Gun System on all platforms other than LPD & LCS, 30MM ammunition used for FAC/FIAC defense in MK46 MOD 2 Gun Weapon System on LPD and LCS, and 40MM grenades for MK19 Automatic Grenade Launcher used by Naval Mobile Construction Battalions and Riverine Forces. Baseline funding also provides Production Engineering and Gauge requirements for 20MM, 25MM, 30MM, and 40MM ammunition.

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition
		Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	111.776	41.908	41.725	35.242	-	35.242
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	111.776	41.908	41.725	35.242	-	35.242
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	111.776	41.908	41.725	35.242	-	35.242

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - 25MM - (AG100) CARTRIDGES Cost																		
Recurring Cost																		
1.1.1) CART., 25MM M APDS-T (A974) ^(†)	94.02	45,000	4.231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) CTG, 25MM, TP-T, M793 (A976) ^(†)	-	-	6.223	-	-	-	35.00	90,200	3.157	35.70	80,300	2.867	-	-	-	35.70	80,300	2.867
<i>Subtotal: Recurring Cost</i>	-	-	10.454	-	-	-	-	-	3.157	-	-	2.867	-	-	-	-	-	2.867
<i>Subtotal: Hardware - 25MM - (AG100) CARTRIDGES Cost</i>	-	-	10.454	-	-	-	-	-	3.157	-	-	2.867	-	-	-	-	-	2.867
Hardware - 30MM - (AG100) CARTRIDGES Cost																		
Recurring Cost																		
2.1.1) CART., 30MM APFSDS-T (AB51) ^(†)	405.73	59,796	24.261	-	-	-	355.11	35,400	12.571	365.58	14,812	5.415	-	-	-	365.58	14,812	5.415
2.1.2) CART., 30MM TP-T LKD (AA90) ^(†)	48.56	36,860	1.790	-	-	-	51.40	30,000	1.542	-	-	-	-	-	-	-	-	-
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)	82.91	150,628	12.489	146.78	36,510	5.359	-	-	-	146.75	30,800	4.520	-	-	-	146.75	30,800	4.520
<i>Subtotal: Recurring Cost</i>	-	-	38.540	-	-	5.359	-	-	14.113	-	-	9.935	-	-	-	-	-	9.935
<i>Subtotal: Hardware - 30MM - (AG100) CARTRIDGES Cost</i>	-	-	38.540	-	-	5.359	-	-	14.113	-	-	9.935	-	-	-	-	-	9.935
Hardware - 40MM - (AG100) CARTRIDGES Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
3.1.1) CTG 40MM HEDP (B546) ^(†)	43.82	81,106	3.554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576) ^(†)	15.24	1,313,882	20.026	18.39	49,984	0.919	-	-	-	-	-	-	-	-	-	-	-	-
3.1.3) CTG, 40MM, BLANK, SAL 200 GRAMS BRASS (B650) ^(†)	43.88	27,918	1.225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.4) CTG., 40MM M583A1 (B535) ^(†)	44.18	31,460	1.390	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.5) CTG., 40MM, BLANK, SAL 50 GRAMS STEEL (B550) ^(†)	55.87	6,300	0.352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	26.547	-	-	0.919	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - 40MM - (AG100) CARTRIDGES Cost</i>	-	-	26.547	-	-	0.919	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - OTHER - (AG100) CARTRIDGES Cost																		
Recurring Cost																		
4.1.1) TRANSPORTATION ACCT CODE	-	-	1.795	-	-	0.445	-	-	0.451	-	-	0.458	-	-	-	-	-	0.458
4.1.2) PE/QA SMCA	-	-	1.420	-	-	0.176	-	-	0.179	-	-	0.183	-	-	-	-	-	0.183
<i>Subtotal: Recurring Cost</i>	-	-	3.215	-	-	0.621	-	-	0.630	-	-	0.641	-	-	-	-	-	0.641
<i>Subtotal: Hardware - OTHER - (AG100) CARTRIDGES Cost</i>	-	-	3.215	-	-	0.621	-	-	0.630	-	-	0.641	-	-	-	-	-	0.641
Hardware - (AG200) CARTRIDGES Cost																		
Recurring Cost																		
5.1.1) CART., 20MM DUMMY, M51A4N (AA20) ^(†)	10.94	218,400	2.390	13.80	43,840	0.605	14.06	21,050	0.296	-	-	-	-	-	-	-	-	-
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)	32.63	849,951	27.738	31.36	1,024,208	32.119	31.83	659,786	21.001	32.31	591,953	19.126	-	-	-	32.31	591,953	19.126
<i>Subtotal: Recurring Cost</i>	-	-	30.128	-	-	32.724	-	-	21.297	-	-	19.126	-	-	-	-	-	19.126

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Hardware - (AG200) CARTRIDGES Cost</i>	-	-	30.128	-	-	32.724	-	-	21.297	-	-	19.126	-	-	-	-	-	19.126
Hardware - OTHER - (AG200) CARTRIDGES Cost																		
Recurring Cost																		
6.1.1) PE/QA SMCA-AG200	-	-	0.526	-	-	0.315	-	-	0.194	-	-	0.200	-	-	-	-	-	0.200
<i>Subtotal: Recurring Cost</i>	-	-	0.526	-	-	0.315	-	-	0.194	-	-	0.200	-	-	-	-	-	0.200
<i>Subtotal: Hardware - OTHER - (AG200) CARTRIDGES Cost</i>	-	-	0.526	-	-	0.315	-	-	0.194	-	-	0.200	-	-	-	-	-	0.200
Hardware - (AG894) GAUGE REQUIREMENTS Cost																		
Recurring Cost																		
7.1.1) GAUGE REQUIREMENTS	-	-	0.228	-	-	0.089	-	-	0.035	-	-	0.037	-	-	-	-	-	0.037
<i>Subtotal: Recurring Cost</i>	-	-	0.228	-	-	0.089	-	-	0.035	-	-	0.037	-	-	-	-	-	0.037
<i>Subtotal: Hardware - (AG894) GAUGE REQUIREMENTS Cost</i>	-	-	0.228	-	-	0.089	-	-	0.035	-	-	0.037	-	-	-	-	-	0.037
Support - (AG830) PRODUCTION ENGINEERING Cost																		
8.1) PRODUCTION ENGINEERING	-	-	2.138	-	-	1.881	-	-	2.299	-	-	2.436	-	-	-	-	-	2.436
<i>Subtotal: Support - (AG830) PRODUCTION ENGINEERING Cost</i>	-	-	2.138	-	-	1.881	-	-	2.299	-	-	2.436	-	-	-	-	-	2.436
Gross/Weapon System Cost	-	-	111.776	-	-	41.908	-	-	41.725	-	-	35.242	-	-	-	-	-	35.242

Remarks:

[Hardware] AG100/AG200: INTEGRATED WARFARE SYSTEMS - Provides all up rounds and acceptance testing. Unit costs and quantities are adjusted during year of execution. Provides for Transportation Account Code (TAC) first destination delivery of production items and Single Manager Conventional Ammunition (SMCA) related costs.

[Hardware] AG894: GAUGE REQUIREMENTS - Provides for procurement of gauges, auxiliary and test equipment and support costs necessary for ammunition metrology to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance

[Support Cost] AG830: PRODUCTION ENGINEERING - Provides for production engineering services.

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) CART., 25MM M APDS-T (A974)		2011	ORBITAL ATK / RADFORD, VA	C / FFP	PICATINNY ARSENAL	Feb 2013	Nov 2015	45,000	94.02	Y		Mar 2012
1.1.2) CTG, 25MM, TP-T, M793 (A976)		2016 ⁽¹⁾	UNKNOWN / UNKNOWN	C / FFP	JMC ROCK ISLAND	Mar 2016	Nov 2017	90,200	35.00	N	Jan 2016	Oct 2015
1.1.2) CTG, 25MM, TP-T, M793 (A976)		2017 ⁽²⁾	UNKNOWN / UNKNOWN	C / FFP	JMC ROCK ISLAND	Mar 2017	Apr 2018	80,300	35.70	N	Jan 2016	Oct 2015
2.1.1) CART., 30MM APFSDS-T (AB51) ^(†)		2014	GENERAL DYNAMICS OTS / MARION, IL	SS / FFP	NSWC IHD	Apr 2015	Jun 2016	19,097	460.28	Y		May 2014
2.1.1) CART., 30MM APFSDS-T (AB51) ^(†)		2016	GENERAL DYNAMICS OTS / MARION, IL	C / FFP	PICATINNY ARSENAL	Mar 2016	Jun 2017	35,400	355.11	Y		Jun 2015
2.1.1) CART., 30MM APFSDS-T (AB51) ^(†)		2017	GENERAL DYNAMICS OTS / MARION, IL	C / FFP	PICATINNY ARSENAL	Mar 2017	Jun 2018	14,812	365.58	Y		Jun 2015
2.1.2) CART., 30MM TP-T LKD (AA90)		2013	ORBITAL ATK / RADFORD, VA	C / FFP	JMC ROCK ISLAND	May 2013	Sep 2015	36,572	48.90	Y		Sep 2012
2.1.2) CART., 30MM TP-T LKD (AA90)		2016 ⁽³⁾	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2016	May 2017	30,000	51.40	Y		Sep 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)		2011	ORBITAL ATK / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Jan 2013	Oct 2015	112,200	102.08	Y		Jul 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)		2014 ⁽⁴⁾	ORBITAL ATK / RADFORD, VA	C / FFP	JMC ROCK ISLAND	May 2014	Oct 2015	38,428	142.66	Y		Jul 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)		2015 ⁽⁵⁾	ORBITAL ATK / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Jul 2015	Oct 2016	36,510	146.78	Y		Jul 2012
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44) ^(†)		2017 ⁽⁶⁾	ORBITAL ATK / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Mar 2017	Aug 2018	30,800	146.75	Y		Jul 2016
3.1.1) CTG 40MM HEDP (B546)		2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2013	Jan 2017	56,554	41.42	Y		Nov 2012
3.1.1) CTG 40MM HEDP (B546)	✓	2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Jul 2014	Feb 2017	10,440	50.85	Y		Feb 2013
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576) ^(†)		2012	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2012	Nov 2013	127,040	15.45	Y		Dec 2010
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576) ^(†)	✓	2012	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Sep 2012	Feb 2014	11,744	15.49	Y		Dec 2011
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576) ^(†)		2013	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2013	Dec 2015	207,296	16.13	Y		Nov 2012
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576) ^(†)		2014	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Sep 2014	Jun 2016	162,016	15.71	Y		Nov 2013

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576) ^(†)	✓	2014	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Sep 2014	Jun 2016	26,016	15.72	Y		Nov 2013
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576) ^(†)	✓	2015	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Oct 2015	Apr 2017	49,984	18.39	Y		Nov 2013
3.1.3) CTG, 40MM, BLANK, SAL 200 GRAMS BRASS (B650)		2012	MCALESTER AAP / MCALESTER, OK	MIPR	NO PCO	Oct 2013	Feb 2016	7,182	44.02	Y		Aug 2011
3.1.3) CTG, 40MM, BLANK, SAL 200 GRAMS BRASS (B650)		2013	MCALESTER AAP / MCALESTER, OK	MIPR	NO PCO	Oct 2013	Feb 2016	20,736	43.64	Y		Aug 2011
3.1.4) CTG., 40MM M583A1 (B535)		2011	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Sep 2011	Sep 2015	19,624	43.21	Y		Oct 2010
3.1.4) CTG., 40MM M583A1 (B535)		2012	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Sep 2012	Mar 2016	11,836	45.80	Y		Dec 2011
3.1.5) CTG., 40MM, BLANK, SAL 50 GRAMS STEEL (B550)		2013	MCALESTER AAP / MCALESTER, OK	MIPR	NO PCO	Oct 2013	Feb 2016	6,300	55.91	Y		Aug 2011
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2014	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	NSWC IHD	Sep 2014	Mar 2016	60,000	13.53	Y		Jan 2013
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2015 ⁽⁷⁾	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	NSWC IHD	Sep 2015	Mar 2017	43,840	13.80	Y		Jan 2013
5.1.1) CART., 20MM DUMMY, M51A4N (AA20)		2016 ⁽⁸⁾	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	NSWC IHD	Mar 2016	Mar 2018	21,050	14.06	Y		Jan 2013
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)		2014	ORBITAL ATK / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND	Sep 2014	Jun 2016	621,619	30.89	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)		2015 ⁽⁹⁾	ORBITAL ATK / LAKE CITY, MO	C / FFP	JMC ROCK ISLAND	Jul 2015	Nov 2016	1,024,208	31.36	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)		2016 ⁽¹⁰⁾	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2016	Jul 2017	659,786	31.83	Y		Dec 2012
5.1.2) CART., 20MM MK 244 ELC (AA61) ^(†)		2017 ⁽¹¹⁾	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	Jul 2018	591,953	32.31	Y		Dec 2012

^(†) indicates the presence of a P-21

Footnotes:

- (1) Option award on 2013 contract, limited competition between Orbital ATK and GD-OTS, option will be either single or split award at government discretion.
- (2) Option award on 2013 contract, limited competition between Orbital ATK and GD-OTS, option will be either single or split award at government discretion.
- (3) Option award on 2013 contract, limited competition between Orbital ATK and GD-OTS, option will be either single or split award at government discretion.
- (4) Option award on 2013 contract.
- (5) Option award on 2013 contract.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

- (6) Option award on 2013 contract..
- (7) Option award on 2014 contract.
- (8) Option award on 2014 contract.
- (9) Option award on 2013 contract, limited competition bewteen Orbital ATK and GD-OTS, option will be either single or split award at government discretion. . Option award delayed until July 2015 to combine order with Foreign Military Sales and achieve economy of scale.
- (10) Option award on 2013 contract, limited competition bewteen Orbital ATK and GD-OTS, option will be either single or split award at government discretion.
- (11) Option award on 2013 contract, limited competition bewteen Orbital ATK and GD-OTS, option will be either single or split award at government discretion.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2011												Fiscal Year 2012												BALANCE	
O C C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011												Calendar Year 2012												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
2.1.1) CART., 30MM APFSDS-T (AB51)																															
Prior Years Deliveries: 40699																															
	1	2014	NAVY	.019	-	.019																						.019			
	1	2016	NAVY	.035	-	.035																						.035			
	1	2017	NAVY	.015	-	.015																						.015			
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)																															
	2	2011	NAVY	.112	-	.112																					.112				
	2	2014	NAVY	.038	-	.038																					.038				
	2	2015	NAVY	.037	-	.037																					.037				
	2	2017	NAVY	.031	-	.031																					.031				
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576)																															
Prior Years Deliveries: 779770																															
	3	2012	NAVY	.127	-	.127																					.127				
	✓ 3	2012	NAVY	.012	-	.012																					.012				
	3	2013	NAVY	.207	-	.207																					.207				
	3	2014	NAVY	.162	-	.162																					.162				
	✓ 3	2014	NAVY	.026	-	.026																					.026				
	✓ 3	2015	NAVY	.050	-	.050																					.050				
5.1.2) CART., 20MM MK 244 ELC (AA61)																															
Prior Years Deliveries: 228332																															
	5	2014	NAVY	.622	-	.622																					.622				
	5	2015	NAVY	1.024	-	1.024																					1.024				
	4	2016	NAVY	.660	-	.660																					.660				
	4	2017	NAVY	.592	-	.592																					.592				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2013												Fiscal Year 2014												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
2.1.1) CART., 30MM APFSDS-T (AB51)																															
Prior Years Deliveries: 40699																															
	1	2014	NAVY	.019	-	.019																								.019	
	1	2016	NAVY	.035	-	.035																								.035	
	1	2017	NAVY	.015	-	.015																								.015	
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)																															
	2	2011	NAVY	.112	-	.112																							A -	.112	
	2	2014	NAVY	.038	-	.038																							A -	.038	
	2	2015	NAVY	.037	-	.037																								.037	
	2	2017	NAVY	.031	-	.031																								.031	
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576)																															
Prior Years Deliveries: 779770																															
	3	2012	NAVY	.127	-	.127																								.127	
✓	3	2012	NAVY	.012	-	.012																								.012	
	3	2013	NAVY	.207	-	.207																								.207	
	3	2014	NAVY	.162	-	.162																							A -	.162	
✓	3	2014	NAVY	.026	-	.026																							A -	.026	
✓	3	2015	NAVY	.050	-	.050																								.050	
5.1.2) CART., 20MM MK 244 ELC (AA61)																															
Prior Years Deliveries: 228332																															
	5	2014	NAVY	.622	-	.622																							A -	.622	
	5	2015	NAVY	1.024	-	1.024																								1.024	
	4	2016	NAVY	.660	-	.660																								.660	
	4	2017	NAVY	.592	-	.592																								.592	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N / 01 / 1

P-1 Line Item Number / Title:
0270 / Other Ship Gun Ammunition

Item Number / Title [DODIC]:
1 / Integrated Warfare Systems

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2015															Fiscal Year 2016												B A L A N C E																																																																													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015															Calendar Year 2016																																																																																								
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S																																																																																
2.1.1) CART., 30MM APFSDS-T (AB51)																																																																																																														
Prior Years Deliveries: 40699																																																																																																														
	1	2014	NAVY	.019	-	.019																																																																																																								
	1	2016	NAVY	.035	-	.035																																																																																																								
	1	2017	NAVY	.015	-	.015																																																																																																								
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)																																																																																																														
	2	2011	NAVY	.112	-	.112																																																																																																								
	2	2014	NAVY	.038	-	.038																																																																																																								
	2	2015	NAVY	.037	-	.037																																																																																																								
	2	2017	NAVY	.031	-	.031																																																																																																								
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576)																																																																																																														
Prior Years Deliveries: 779770																																																																																																														
	3	2012	NAVY	.127	.127	-																																																																																																								
✓	3	2012	NAVY	.012	.012	-																																																																																																								
	3	2013	NAVY	.207	-	.207																																																																																																								
	3	2014	NAVY	.162	-	.162																																																																																																								
✓	3	2014	NAVY	.026	-	.026																																																																																																								
✓	3	2015	NAVY	.050	-	.050																																																																																																								
5.1.2) CART., 20MM MK 244 ELC (AA61)																																																																																																														
Prior Years Deliveries: 228332																																																																																																														
	5	2014	NAVY	.622	-	.622																																																																																																								
	5	2015	NAVY	1.024	-	1.024																																																																																																								
	4	2016	NAVY	.660	-	.660																																																																																																								
	4	2017	NAVY	.592	-	.592																																																																																																								
<table border="0" style="width:100%; text-align:center;"> <tr> <td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td> <td>E</td> <td>P</td> <td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td> </tr> <tr> <td>C</td><td>V</td><td>C</td><td>A</td><td>E</td><td>A</td><td>R</td><td>R</td><td>Y</td><td>U</td><td>U</td><td>U</td><td>P</td><td>C</td><td>O</td><td>V</td><td>C</td><td>A</td><td>E</td><td>R</td><td>R</td><td>Y</td><td>N</td><td>L</td><td>U</td><td>G</td><td>E</td> <td>E</td> <td>P</td> <td>T</td><td>V</td><td>C</td><td>A</td><td>B</td><td>R</td><td>R</td><td>Y</td><td>N</td><td>L</td><td>U</td><td>G</td><td>E</td> </tr> </table>																												O	N	D	J	F	M	A	A	M	J	J	A	S	O	N	D	J	F	M	A	A	M	J	J	A	S	E	P	O	N	D	J	F	M	A	A	M	J	J	A	S	C	V	C	A	E	A	R	R	Y	U	U	U	P	C	O	V	C	A	E	R	R	Y	N	L	U	G	E	E	P	T	V	C	A	B	R	R	Y	N	L	U	G	E
O	N	D	J	F	M	A	A	M	J	J	A	S	O	N	D	J	F	M	A	A	M	J	J	A	S	E	P	O	N	D	J	F	M	A	A	M	J	J	A	S																																																																						
C	V	C	A	E	A	R	R	Y	U	U	U	P	C	O	V	C	A	E	R	R	Y	N	L	U	G	E	E	P	T	V	C	A	B	R	R	Y	N	L	U	G	E																																																																					

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements <i>(Units in Millions, * = < 500)</i>					Fiscal Year 2017													Fiscal Year 2018												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
2.1.1) CART., 30MM APFSDS-T (AB51)																																
Prior Years Deliveries: 40699																																
	1	2014	NAVY	.019	.019	-																										
	1	2016	NAVY	.035	-	.035	-	-	-	-	-	-	-	.010	.010	.010	.005															
	1	2017	NAVY	.015	-	.015																				.008	.007					
2.1.3) CARTRIDGE, 30MM X 173, LINKED (AB44)																																
	2	2011	NAVY	.112	.112	-																										
	2	2014	NAVY	.038	.038	-																										
	2	2015	NAVY	.037	-	.037	.020	.017																								
	2	2017	NAVY	.031	-	.031																					.016	.015				
3.1.2) CTG, 40MM, FIXED, PRAC., F/MK (B576)																																
Prior Years Deliveries: 779770																																
	3	2012	NAVY	.127	.127	-																										
✓	3	2012	NAVY	.012	.012	-																										
	3	2013	NAVY	.207	.207	-																										
	3	2014	NAVY	.162	.162	-																										
✓	3	2014	NAVY	.026	.026	-																										
✓	3	2015	NAVY	.050	-	.050	-	-	-	-	-	-	-	.010	.010	.010	.010	.010														
5.1.2) CART., 20MM MK 244 ELC (AA61)																																
Prior Years Deliveries: 228332																																
	5	2014	NAVY	.622	.622	-																										
	5	2015	NAVY	1.024	-	1.024	-	.200	.200	.200	.200	.224																				
	4	2016	NAVY	.660	-	.660	-	-	-	-	-	-		.200	.200	.260																
	4	2017	NAVY	.592	-	.592																					.250	.200	.142			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GENERAL DYNAMICS OTS - MARION, IL	70	840,000	1,700,000	6	6	15	21	6	10	14	24
2	ORBITAL ATK - RADFORD, VA	70	840,000	1,700,000	10	10	33	43	6	6	15	21
3	AMTEC CORPORATION - JANESVILLE, WI	70	840,000	1,700,000	6	6	33	39	6	6	17	23
4	TBD - TBD	70	840,000	1,700,000	6	6	16	22	6	6	21	27
5	ORBITAL ATK - LAKE CITY, MO	70	840,000	1,700,000	6	6	16	22	6	6	21	27

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Navy						Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition			Item Number / Title [DODIC]: 2 / Naval Special Warfare		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			5.539	5.917	8.432	3.767	-	3.767
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			5.539	5.917	8.432	3.767	-	3.767
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			5.539	5.917	8.432	3.767	-	3.767
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - NSW Hardware Cost																		
Recurring Cost																		
2.1.2) CTG, 60MM ILLUMINATION (B647) ^(†)	-	-	0.000	-	-	-	-	-	-	588.87	1,024	0.603	-	-	-	588.87	1,024	0.603
2.1.3) CTG, 60 MM HE-PD M88 M935 (B643) ^(†)	-	-	0.000	500.00	816	0.408	442.76	11,709	5.184	-	-	-	-	-	-	-	-	-
2.1.4) CTG, 40MM, FIXED, PRAC., F/MK (B576) ^(†)	15.64	78,836	1.233	-	-	-	19.15	40,000	0.766	20.48	26,432	0.541	-	-	-	20.48	26,432	0.541
2.1.5) CTG, 40MM HE-DP, LINKED F/ MK-19 (B542)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.6) RKT 66MM HE M72A7 (LAW) (HA29) ^(†)	1,224.05	973	1.191	3,000.00	1,000	3.000	-	-	-	-	-	-	-	-	-	-	-	-
2.1.7) CTG, 60 MM HE MAPAM, XM1061, W/FUZE M734A1 (BA29) ^(†)	1,536.75	1,660	2.551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.8) CTG., 40MM ILLUMINATION, WHITE STAR CLUST (B536) ^(†)	-	-	0.000	61.97	10,032	0.622	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition						Item Number / Title [DODIC]: 2 / Naval Special Warfare					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1.9) CTG., 40MM PRAC., M79/F/M203 (B519) ^(†)	4.09	85,000	0.348	-	-	-	4.78	60,000	0.287	-	-	-	-	-	-	-	-	-
2.1.10) CTG., 40MM HIGH VELOCITY TP MK 281 MOD 0 (BA12) ^(†)	-	-	0.000	32.38	46,976	1.521	-	-	-	33.68	76,158	2.565	-	-	-	33.68	76,158	2.565
2.1.11) CTG., 40MM PRAC., DAY/NIGHT MARKING MK (BA21) ^(†)	-	-	0.000	-	-	-	34.05	57,269	1.950	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	5.324	-	-	5.551	-	-	8.187	-	-	3.709	-	-	-	-	-	3.709
<i>Subtotal: Hardware - NSW Hardware Cost</i>	-	-	5.324	-	-	5.551	-	-	8.187	-	-	3.709	-	-	-	-	-	3.709
Support - (NS830) PRODUCTION ENGINEERING Cost																		
3.1) Production Engineering	-	-	0.215	-	-	0.366	-	-	0.245	-	-	0.058	-	-	-	-	-	0.058
<i>Subtotal: Support - (NS830) PRODUCTION ENGINEERING Cost</i>	-	-	0.215	-	-	0.366	-	-	0.245	-	-	0.058	-	-	-	-	-	0.058
Gross/Weapon System Cost	-	-	5.539	-	-	5.917	-	-	8.432	-	-	3.767	-	-	-	-	-	3.767

Remarks:

[Support Cost] AG830: PRODUCTION ENGINEERING - Provides for production engineering services.

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 2 / Naval Special Warfare
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.2) CTG, 60MM ILLUMINATION (B647)		2017	TBD / TBD	C / TBD	TBD	Sep 2017	Sep 2018	1,024	588.87	Y		Jan 2017
2.1.3) CTG, 60 MM HE-PD M88 M935 (B643) ^(†)		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2016	816	500.00	Y		Dec 2014
2.1.3) CTG, 60 MM HE-PD M88 M935 (B643) ^(†)		2016	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	1,152	442.76	Y		Dec 2014
2.1.3) CTG, 60 MM HE-PD M88 M935 (B643) ^(†)	✓	2016	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	10,557	442.76	Y		Dec 2014
2.1.4) CTG, 40MM, FIXED, PRAC., F/MK (B576)		2016	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2016	Aug 2017	40,000	19.15	Y		Dec 2014
2.1.4) CTG, 40MM, FIXED, PRAC., F/MK (B576)		2017	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2017	Aug 2018	26,432	20.48	Y		Dec 2014
2.1.6) RKT 66MM HE M72A7 (LAW) (HA29)		2013	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	JMC ROCK ISLAND	Mar 2013	Mar 2015	973	1,224.05	Y		Oct 2011
2.1.6) RKT 66MM HE M72A7 (LAW) (HA29)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2017	1,000	3,000.00	Y		Oct 2011
2.1.7) CTG, 60 MM HE MAPAM, XM1061, W/FUZE M734A1 (BA29)		2014	PINE BLUFF ARSENAL / PINE BLUFF, AR	C / FFP	NSWC CRANE	Jun 2014	Dec 2015	260	1,576.92	Y		Dec 2011
2.1.8) CTG., 40MM ILLUMINATION, WHITE STAR CLUST (B536)		2015	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Apr 2015	Apr 2016	10,032	61.97	Y		Dec 2013
2.1.9) CTG., 40MM PRAC., M79/F/ M203 (B519)		2016	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	JMC ROCK ISLAND	Mar 2016	Apr 2017	60,000	4.78	Y		Oct 2015
2.1.10) CTG., 40MM HIGH VELOCITY TP MK 281 MOD 0 (BA12)		2015	RHEINMETALL / GERMANY	C / FFP	JMC ROCK ISLAND	Apr 2015	Oct 2016	46,976	32.38	Y		Dec 2013
2.1.10) CTG., 40MM HIGH VELOCITY TP MK 281 MOD 0 (BA12)		2017	RHEINMETALL / GERMANY	C / FFP	JMC ROCK ISLAND	Dec 2016	Jun 2018	76,158	33.68	Y		Dec 2013
2.1.11) CTG., 40MM PRAC., DAY/ NIGHT MARKING MK (BA21) ^(†)		2016	RHEINMETALL / GERMANY	C / FFP	USMC Quantico	Apr 2016	Oct 2017	57,269	34.05	Y		Dec 2014

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 2 / Naval Special Warfare
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2013												Fiscal Year 2014												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
2.1.3) CTG, 60 MM HE-PD M88 M935 (B643)																															
	1	2015	NAVY	.816	-	.816																								.816	
	1	2016	NAVY	1.152	-	1.152																								1.152	
✓	1	2016	NAVY	10.557	-	10.557																								10.557	
2.1.11) CTG., 40MM PRAC., DAY/NIGHT MARKING MK (BA21)																															
	2	2016	NAVY	57.269	-	57.269																								57.269	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0270 / Other Ship Gun Ammunition **Item Number / Title [DODIC]:** 2 / Naval Special Warfare

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
2.1.3) CTG, 60 MM HE-PD M88 M935 (B643)																															
	1	2015	NAVY	.816	-	.816																								.816	
	1	2016	NAVY	1.152	-	1.152																								1.152	
✓	1	2016	NAVY	10.557	-	10.557																								10.557	
2.1.11) CTG., 40MM PRAC., DAY/NIGHT MARKING MK (BA21)																															
	2	2016	NAVY	57.269	-	57.269																								57.269	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 2 / Naval Special Warfare
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2017													Fiscal Year 2018												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
2.1.3) CTG, 60 MM HE-PD M88 M935 (B643)																																
	1	2015	NAVY	.816	-	.816	.816																						-			
	1	2016	NAVY	1.152	-	1.152																							-			
	✓ 1	2016	NAVY	10.557	-	10.557																							-			
2.1.11) CTG., 40MM PRAC., DAY/NIGHT MARKING MK (BA21)																																
	2	2016	NAVY	57.269	-	57.269																							-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0270 / Other Ship Gun Ammunition	Item Number / Title [DODIC]: 2 / Naval Special Warfare
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	AMERICAN ORDNANCE LLC (IAAP) - MIDDLETOWN, IA	-	-	-	6	6	19	25	6	6	7	13
2	RHEINMETALL - GERMANY	80	70,000	1,640,000	6	6	18	24	6	6	18	24

"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 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	255.750	54.096	55.536	46.727	-	46.727	54.145	55.340	54.900	55.994	-	632.488
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	255.750	54.096	55.536	46.727	-	46.727	54.145	55.340	54.900	55.994	-	632.488
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	255.750	54.096	55.536	46.727	-	46.727	54.145	55.340	54.900	55.994	-	632.488

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

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

Description:

Program provides ammunition in support of active Navy ships and for active and reserve ashore warfare forces.

AH100: SMALL ARMS AND LANDING PARTY HARDWARE - Provides for all up rounds and acceptance testing and covers a variety of caliber including 5.56mm, 9mm, and 50cal. It also includes Transportation Account Code (TAC) first destination delivery of production items and Single Manager Conventional Ammunition (SMCA) related costs. Unit costs and quantities are adjusted during year of execution.

AH350: MATCH AMMO - Special Ammunition required to support Navy approved marksmanship competition matches.

AHG86: OVERSEAS CONTINGENCY OPERATIONS (OCO) - Provides for procurement of ammunition with OCO funding.

AH893: RENOVATION COMPONENTS - Provides for renovation components used to upgrade unserviceable rounds into ready-for-issue condition.

AH894: GAUGE REQUIREMENTS - Provides for procurement of gauges, auxiliary and test equipment, and support costs necessary for ammunition metrology to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

AH895: NON-STANDARD - Provides for non-standard items of ammunition. Includes training aids and initial procurements of required non type classified munition items including law enforcement ammunition for NCIS.

AHNSW: NAVAL SPECIAL WARFARE (NSW) - Provides for all types of Naval Special Warfare components, load and assemble complete rounds and for conducting acceptance tests. Costs associated with Transportation Account Code (TAC) are for first destination of delivery of production items. Unit costs and quantities are adjusted during year of execution.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Navy	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	54.032	55.175	46.303	-	46.303	53.790	54.929	54.437	55.522

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.064	0.361	0.424	-	0.424	0.355	0.411	0.463	0.472
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	54.096	55.536	46.727	-	46.727	54.145	55.340	54.900	55.994

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Integrated Warfare Systems	P-5a, P-21		- / 190.974	- / 34.821	- / 35.873	- / 28.509	- / -	- / 28.509
P-5	2 / Naval Special Warfare (NSW)	P-5a, P-21		- / 64.776	- / 19.275	- / 19.663	- / 18.218	- / -	- / 18.218
P-40	Total Gross/Weapon System Cost			- / 255.750	- / 54.096	- / 55.536	- / 46.727	- / -	- / 46.727

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

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

Justification:
 FY 2017 decrease by \$1.7 million to Small Arms & Landing Party Ammo as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 baseline funding procures ammunition to support shotguns, handguns, rifles, machine guns, grenades and land mines. 12 Gauge, 5.56MM, 7.62MM, 9MM, 38 Caliber, 40 Caliber, 45 Caliber, 50 Caliber, Hand and Smoke Grenades, and Mines are used for all Active Navy Ships, and all Active and Reserve Ashore warfare forces, including Navy Expeditionary Combat Command, Maritime Expeditionary Security Forces, Inshore Undersea Warfare Groups, Military Sea Lift Command, Marine and Navy Air-Wing units, and Naval Criminal Investigative Service. Baseline funding also provides Product Improvement Programs to improve producibility of smoke grenades. Baseline program also funds Renovation of grenade fuzes for fragmentation and hand grenades, and Production Engineering and Gauge requirements for Small Arms Ammunition, Grenades, and Mines.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	190.974	34.821	35.873	28.509	-	28.509
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	190.974	34.821	35.873	28.509	-	28.509
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	190.974	34.821	35.873	28.509	-	28.509

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - (AH100) PE/QA SMCA Cost																		
Recurring Cost																		
1.1.1) PE/QA SMCA	-	-	5.177	-	-	1.538	-	-	2.531	-	-	1.215	-	-	-	-	-	1.215
<i>Subtotal: Recurring Cost</i>	-	-	5.177	-	-	1.538	-	-	2.531	-	-	1.215	-	-	-	-	-	1.215
<i>Subtotal: Hardware - (AH100) PE/QA SMCA Cost</i>	-	-	5.177	-	-	1.538	-	-	2.531	-	-	1.215	-	-	-	-	-	1.215
Hardware - (AH100) TRANSPORTATION ACCOUNT CODE (TAC) Cost																		
Recurring Cost																		
2.1.1) TRANSPORTATION ACCOUNT CODE (TAC)	-	-	4.411	-	-	1.000	-	-	1.000	-	-	1.200	-	-	-	-	-	1.200
<i>Subtotal: Recurring Cost</i>	-	-	4.411	-	-	1.000	-	-	1.000	-	-	1.200	-	-	-	-	-	1.200
<i>Subtotal: Hardware - (AH100) TRANSPORTATION ACCOUNT CODE (TAC) Cost</i>	-	-	4.411	-	-	1.000	-	-	1.000	-	-	1.200	-	-	-	-	-	1.200
Hardware - (AH100) .40 CAL CARTRIDGES Cost																		
Recurring Cost																		
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW)([†])	0.29	1,693,400	0.487	0.32	400,000	0.128	0.32	280,800	0.090	0.32	100,000	0.032	-	-	-	0.32	100,000	0.032
3.1.2) CTG .40 CALS&W (DWGX)([†])	0.26	159,300	0.042	0.30	474,763	0.142	0.30	140,400	0.042	0.30	200,000	0.060	-	-	-	0.30	200,000	0.060

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo
		Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	0.529	-	-	0.270	-	-	0.132	-	-	0.092	-	-	-	-	-	0.092
<i>Subtotal: Hardware - (AH100) .40 CAL CARTRIDGES Cost</i>	-	-	0.529	-	-	0.270	-	-	0.132	-	-	0.092	-	-	-	-	-	0.092
Hardware - (AH100) 50 CAL CARTRIDGES Cost																		
Recurring Cost																		
4.1.1) CTG .50 CAL (AA50)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.2) .50 CAL BLANK (A598) ^(†)	1.43	1,426,758	2.035	1.32	250,000	0.331	1.20	201,600	0.242	-	-	-	-	-	-	-	-	-
4.1.3) CTG, .50 LINKED (A576) ^(†)	2.53	3,585,916	9.076	1.89	1,091,000	2.064	1.99	998,400	1.987	1.99	800,000	1.592	-	-	1.99	800,000	1.592	
4.1.4) CTG, .50 211-0 (A606)	12.62	23,924	0.302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.5) CTG, 50 CAL, MK 211, APIT, M (AA06)	-	-	5.985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.6) CTG, .50 CAL, AP, MK 263 MOD 0 (AA58)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.7) CTG, 50 CAL, LKD, BALL (A555) ^(†)	1.97	8,898,800	17.504	1.74	1,420,000	2.471	1.82	930,220	1.693	1.90	1,176,842	2.236	-	-	1.90	1,176,842	2.236	
4.1.8) CTG, 50 CAL, LKD & TRACER (A557) ^(†)	1.90	18,734,800	35.555	1.75	6,033,714	10.559	1.87	4,292,000	8.026	1.99	3,610,552	7.185	-	-	1.99	3,610,552	7.185	
<i>Subtotal: Recurring Cost</i>	-	-	70.459	-	-	15.425	-	-	11.948	-	-	11.013	-	-	-	-	-	11.013
<i>Subtotal: Hardware - (AH100) 50 CAL CARTRIDGES Cost</i>	-	-	70.459	-	-	15.425	-	-	11.948	-	-	11.013	-	-	-	-	-	11.013
Hardware - (AH100) 5.56MM CARTRIDGES Cost																		
Recurring Cost																		
5.1.1) CTG, CAL 5.56MM, FRANGIBLE (AA40) ^(†)	0.43	31,388,670	13.587	0.41	2,439,024	1.000	-	-	-	-	-	-	-	-	-	-	-	-
5.1.2) CTG., 5.56MM, LKD 4 BALL/1 TR (A064)	0.44	1,249,600	0.550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.3) CTG, 5.56MM M855 (A059) ^(†)	0.28	34,414,800	9.508	0.22	15,647,499	3.400	0.24	12,096,000	2.903	0.24	8,200,000	1.968	-	-	0.24	8,200,000	1.968	

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.1.4) CTG., 5.56MM, BLANK (A080)	0.24	9,069,440	2.176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.5) CTG, 5.56MM, SRTR AMMO (AA68) ^(†)	0.43	1,020,785	0.439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.6) (AB09) CTG, 5.56MM, M1042 UTM, Blue (AB09)	-	-	0.436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.7) (AB10) 5.56MM, M1042 UTM, Red (AB10) ^(†)	0.64	626,400	0.401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.8) CTG, 5.56MM, SRTR AMMO (AB67)	-	-	0.000	-	-	-	-	-	-	1.24	254,000	0.315	-	-	-	1.24	254,000	0.315
<i>Subtotal: Recurring Cost</i>	-	-	27.097	-	-	4.400	-	-	2.903	-	-	2.283	-	-	-	-	-	2.283
<i>Subtotal: Hardware - (AH100) 5.56MM CARTRIDGES Cost</i>	-	-	27.097	-	-	4.400	-	-	2.903	-	-	2.283	-	-	-	-	-	2.283
Hardware - (AH100) 7.62MM CARTRIDGES Cost																		
Recurring Cost																		
6.1.1) CTG. 7.62MM (A257) ^(†)	0.51	1,731,000	0.888	0.46	366,000	0.170	0.48	360,000	0.173	0.48	350,000	0.168	-	-	-	0.48	350,000	0.168
6.1.2) CARTR, 7.62MM (AA11) ^(†)	1.10	1,572,460	1.723	-	-	-	1.21	132,480	0.160	-	-	-	-	-	-	-	-	-
6.1.3) CTG., 7.62MM X 39MM BLANK (NNSN)	0.17	399,005	0.067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.1.4) CTG, 7.62MM, LKD, 9 AP TO 1 (AA36)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.1.5) CTG, 7.62MM, SHORT RANGE TRAINING (AA39)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.1.6) CTG, 7.62MM, LKD 9 AP TO 1 DI (AA34)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.1.7) CTG, 7.62MM, SRTA, BALL, LINKED M973 (AB60) ^(†)	-	-	0.000	1.85	4,300	0.008	-	-	-	1.79	200,000	0.357	-	-	-	1.79	200,000	0.357
6.1.8) CTG, 7.62MM, BLANK (A111)	0.83	6,661,015	5.527	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131) ^(†)	1.00	25,543,677	25.633	0.49	2,225,600	1.100	0.55	6,496,000	3.573	0.54	6,500,000	3.510	-	-	-	0.54	6,500,000	3.510
6.1.10) CTG, 7.62MM, BALL, M80, LKD (A143) ^(†)	0.71	6,209,046	4.381	0.47	1,680,800	0.795	0.53	992,000	0.526	0.53	850,000	0.451	-	-	-	0.53	850,000	0.451
6.1.11) CTG, 7.62MM, LKD (A165) ^(†)	0.68	23,132,282	15.642	0.45	3,971,420	1.787	0.48	3,996,000	1.918	0.48	2,000,000	0.960	-	-	-	0.48	2,000,000	0.960
6.1.12) CTG, 7.62MM, DUMMY AMMO (A162)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.1.13) (AB43) CTG, 7.62mm, Dummy Ammo (AB43)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.1.14) (AA37) CTG, 7.62MM SHORT RANGE TRAINING AMMO (AA37) ^(†)	1.45	157,200	0.228	-	-	-	0.89	230,400	0.205	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	54.094	-	-	3.860	-	-	6.555	-	-	5.446	-	-	-	-	-	5.446
<i>Subtotal: Hardware - (AH100) 7.62MM CARTRIDGES Cost</i>	-	-	54.094	-	-	3.860	-	-	6.555	-	-	5.446	-	-	-	-	-	5.446
Hardware - (AH100) 38CAL CARTRIDGES Cost																		
Recurring Cost																		
7.1.1) CTG, .38 BLANK (A403) ^(†)	0.26	42,000	0.011	0.29	10,000	0.003	0.30	10,000	0.003	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.011	-	-	0.003	-	-	0.003	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - (AH100) 38CAL CARTRIDGES Cost</i>	-	-	0.011	-	-	0.003	-	-	0.003	-	-	-	-	-	-	-	-	-
Hardware - (AH100) 45 CAL CARTRIDGES Cost																		
Recurring Cost																		
8.1.1) CTG, .45 CAL BALL (A475) ^(†)	0.27	384,000	0.102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - (AH100) 45 CAL CARTRIDGES Cost</i>	-	-	0.102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (AH100) 9MM CARTRIDGES Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
9.1.1) CTG, 9MM, BALL (A363) ^(†)	0.19	54,849,084	10.691	0.14	14,196,564	1.987	0.16	12,000,000	1.920	0.16	9,000,000	1.440	-	-	-	0.16	9,000,000	1.440
9.1.2) CTG, 9MM, FX, MARKING, RED (AA12)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.1.3) CTG, 9MM, FRANGIBLE (AA16) ^(†)	0.28	1,037,200	0.290	-	-	-	0.31	2,976,000	0.923	0.31	2,500,000	0.775	-	-	-	0.31	2,500,000	0.775
9.1.4) CTG, 9MM, FX, MARKING, BLUE (AA21)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.1.5) CTG, 9MM DUMMY AMMO (A359)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.1.6) CTG, 9MM JKTD HOLLOW PT (A260)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.1.7) (AB13) CTG, 9MM, FX, MARKING, BLUE (AB13) ^(†)	0.55	732,000	0.406	0.56	1,008,000	0.560	-	-	-	-	-	-	-	-	-	-	-	-
9.1.8) (AB14) CTG, 9MM, FX, MARKING, RED (AB14) ^(†)	0.54	2,400,000	1.291	0.56	1,008,000	0.560	0.61	960,000	0.586	0.61	650,000	0.397	-	-	-	0.61	650,000	0.397
<i>Subtotal: Recurring Cost</i>	-	-	12.682	-	-	3.107	-	-	3.429	-	-	2.612	-	-	-	-	-	2.612
<i>Subtotal: Hardware - (AH100) 9MM CARTRIDGES Cost</i>	-	-	12.682	-	-	3.107	-	-	3.429	-	-	2.612	-	-	-	-	-	2.612
Hardware - (AH100) GRENADES Cost																		
Recurring Cost																		
10.1.1) FUZE, DELAY M228 (G878) ^(†)	5.39	25,586	0.138	12.78	1,900	0.024	-	-	-	-	-	-	-	-	-	-	-	-
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ^{(†) (1)}	790.04	281	0.222	-	-	-	316.71	4,992	1.581	-	-	-	-	-	-	-	-	-
10.1.3) GRENADE, HND, SMK, GREEN (GG32) ^{(†) (2)}	37.82	10,048	0.380	31.20	10,000	0.312	-	-	-	-	-	-	-	-	-	-	-	-
10.1.4) GRENADE, HND, SMK, VIOLET (GG33) ⁽³⁾	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
10.1.5) GRENADE, HND, SMK, YELLOW (GG31) ^(†) (4)	39.60	4,646	0.184	33.10	10,000	0.331	-	-	-	-	-	-	-	-	-	-	-	-
10.1.6) GRENADE, HND, SMK, WHITE (GG34) ^(†)	-	-	0.000	29.30	10,000	0.293	-	-	-	-	-	-	-	-	-	-	-	-
10.1.7) GRENADE, HND, SMK, RED (G950) ^(†)	-	-	0.000	-	-	-	-	-	-	54.00	10,000	0.540	-	-	-	54.00	10,000	0.540
<i>Subtotal: Recurring Cost</i>	-	-	0.925	-	-	0.960	-	-	1.581	-	-	0.540	-	-	-	-	-	0.540
<i>Subtotal: Hardware - (AH100) GRENADES Cost</i>	-	-	0.925	-	-	0.960	-	-	1.581	-	-	0.540	-	-	-	-	-	0.540
Hardware - (AH100) MINES Cost																		
<i>Recurring Cost</i>																		
11.1.1) MINE, AP, M18A1/T48E3 W/ ACCESSORIES (K143)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.1.2) MINE AP M18A1WITH SHOCK TUBE (J007) ^(†)	198.92	5,394	1.073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.1.3) RIOT CNTRL, CS (K765) ^(†)	0.46	6,500	0.003	0.40	15,780	0.006	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1.077	-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - (AH100) MINES Cost</i>	-	-	1.077	-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (AH100) SHOTGUN CARTRIDGES Cost																		
<i>Recurring Cost</i>																		
12.1.1) CTG., 12 GA, RUBBER, FIN STAB (AA51) ^(†)	3.86	15,040	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.1.2) CTG, 12 GA NO.9 (A017)	0.24	103,000	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.1.3) CTG, 12 GA NO. 00 (A011) ^(†)	0.56	537,920	0.302	0.52	711,000	0.370	0.52	752,640	0.391	0.52	750,000	0.390	-	-	-	0.52	750,000	0.390
12.1.4) CTG, 12 GA, FRANGIBLE (AA86) ^(†)	-	-	0.000	1.09	1,244,770	1.357	0.65	998,400	0.649	-	-	-	-	-	-	-	-	-
12.1.5) CTG, 12 GA WARNING MUNITION (LA51)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
12.1.6) CTG, 12 GA WARNING MUNITION (LA52)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.1.7) (AA55) CTG, 12 GA DUMMY AMMUNITION (AA55)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.388</i>	-	-	<i>1.727</i>	-	-	<i>1.040</i>	-	-	<i>0.390</i>	-	-	-	-	-	<i>0.390</i>
<i>Subtotal: Hardware - (AH100) SHOTGUN CARTRIDGES Cost</i>	-	-	<i>0.388</i>	-	-	<i>1.727</i>	-	-	<i>1.040</i>	-	-	<i>0.390</i>	-	-	-	-	-	<i>0.390</i>
Hardware - (AH350) MATCH AMMO Cost																		
Recurring Cost																		
13.1.1) CTG, .22 CAL, BALL, LR, MATCH (A091) ^(f)	0.13	2,215,000	0.288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.1.2) CTG., 12 GA SHOTGUN (A002) ^(f)	-	-	0.000	0.40	203,000	0.081	-	-	-	-	-	-	-	-	-	-	-	-
13.1.3) CTG., 12 GAUGE SHOTGUN, TRAP/SKEET PAS (A003) ^(f)	-	-	0.000	0.40	203,000	0.081	-	-	-	-	-	-	-	-	-	-	-	-
13.1.4) CTG, 5.56MM, SPECIAL BALL, MK 262 MOD 1 (AA53)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.1.5) CTG., 45 CAL, BALL, M1911, M (A483) ^(f)	0.28	112,000	0.031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.1.6) CTG., 28 GAGE SKEET LOAD, PLASTIC CASE 2 DRAMS (A057)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.1.7) CTG., 20 GAGE SHOTGUN, SKEET LOAD 2 1/2 DRAMS POWDER (A046)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.1.8) 12 GA CARTRIDGE SKEET DRAM PAPER (LL0003348)	3.46	1,444	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.1.9) (A052) 410 GA SHOTGUN SKEET AMMO (A052)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	0.328	-	-	0.162	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - (AH350) MATCH AMMO Cost</i>	-	-	0.328	-	-	0.162	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (AHG86) OVERSEAS CONTINGENCY OPERATIONS (OCO) Cost																		
Non Recurring Cost																		
14.1.1) OVERSEAS CONTINGENCY OPERATIONS (OCO)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - (AHG86) OVERSEAS CONTINGENCY OPERATIONS (OCO) Cost</i>	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (AH850) PRODUCT IMPROVEMENT Cost																		
Recurring Cost																		
15.1.1) PRODUCT IMPROVEMENT	-	-	0.000	-	-	0.569	-	-	1.127	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.569	-	-	1.127	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - (AH850) PRODUCT IMPROVEMENT Cost</i>	-	-	0.000	-	-	0.569	-	-	1.127	-	-	-	-	-	-	-	-	-
Hardware - (AH893) RENOVATION COMPONENTS Cost																		
Recurring Cost																		
16.1.1) RENOVATION COMPONENTS	-	-	1.517	-	-	-	-	-	0.730	-	-	0.638	-	-	-	-	-	0.638
<i>Subtotal: Recurring Cost</i>	-	-	1.517	-	-	-	-	-	0.730	-	-	0.638	-	-	-	-	-	0.638
<i>Subtotal: Hardware - (AH893) RENOVATION COMPONENTS Cost</i>	-	-	1.517	-	-	-	-	-	0.730	-	-	0.638	-	-	-	-	-	0.638
Hardware - (AH894) GAUGE REQUIREMENTS Cost																		
Recurring Cost																		
17.1.1) GAUGE REQUIREMENTS	-	-	0.019	-	-	0.021	-	-	0.020	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Recurring Cost</i>	-	-	0.019	-	-	0.021	-	-	0.020	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Hardware - (AH894) GAUGE REQUIREMENTS Cost</i>	-	-	0.019	-	-	0.021	-	-	0.020	-	-	0.020	-	-	-	-	-	0.020
Hardware - (AH895) NON-STANDARD Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 1 / Integrated Warfare Systems					
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:								

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
18.1.1) NON-STANDARD	-	-	0.150	-	-	0.300	-	-	0.410	-	-	0.600	-	-	-	-	-	0.600
<i>Subtotal: Recurring Cost</i>	-	-	0.150	-	-	0.300	-	-	0.410	-	-	0.600	-	-	-	-	-	0.600
<i>Subtotal: Hardware - (AH895) NON-STANDARD Cost</i>	-	-	0.150	-	-	0.300	-	-	0.410	-	-	0.600	-	-	-	-	-	0.600
Support - (AH830) PRODUCTION ENGINEERING Cost																		
19.1) PRODUCTION ENGINEERING	-	-	12.007	-	-	1.473	-	-	2.464	-	-	2.460	-	-	-	-	-	2.460
<i>Subtotal: Support - (AH830) PRODUCTION ENGINEERING Cost</i>	-	-	12.007	-	-	1.473	-	-	2.464	-	-	2.460	-	-	-	-	-	2.460
Gross/Weapon System Cost	-	-	190.974	-	-	34.821	-	-	35.873	-	-	28.509	-	-	-	-	-	28.509

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

Footnotes:

- (1) Grenade, Vehicle Launched IR/S (GG42) replaces Grenade, Vehicle Launched IR/S (G826)
- (2) Grenade, Hnd, Smk, Green (GG32) replaces Grenade, Hnd, Smk, Green (G940).
- (3) Grenade, Hnd, Smk, Violet (GG33) replaces Grenade, Hnd, Smk, Violet (G955).
- (4) Grenade, Hnd, Smk, Yellow (GG31) replaces Grenade, Hnd, Smk, Yellow (G945).

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW)		2015	FEDERAL CARTRIDGE / MINNESOTA...	C / FFP	NSWC CRANE	Feb 2015	Mar 2016	400,000	0.32	Y		Aug 2012
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW)		2016	FEDERAL CARTRIDGE / MINNESOTA...	C / FFP	NSWC CRANE	Mar 2016	Apr 2017	280,800	0.32	Y		Aug 2012
3.1.1) CARTRIDGE, MK 308 MOD 0, .40 (DWGW)		2017	FEDERAL CARTRIDGE / MINNESOTA...	C / FFP	NSWC CRANE	Mar 2017	Apr 2018	100,000	0.32	Y		Aug 2012
3.1.2) CTG .40 CALS&W (DWGX)		2015	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Mar 2015	May 2016	474,763	0.30	Y		Aug 2012
3.1.2) CTG .40 CALS&W (DWGX)		2016	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Mar 2016	Apr 2017	140,400	0.30	Y		Aug 2012
3.1.2) CTG .40 CALS&W (DWGX)		2017	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Mar 2017	May 2018	200,000	0.30	Y		Aug 2012
4.1.2) .50 CAL BLANK (A598)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2014	Jan 2016	171,200	1.15	Y		Oct 2011
4.1.2) .50 CAL BLANK (A598)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2015	May 2017	250,000	1.32	Y		Oct 2011
4.1.2) .50 CAL BLANK (A598)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Dec 2016	201,600	1.20	Y		Oct 2011
4.1.3) CTG, .50 LINKED (A576) ^(†)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2015	Dec 2016	1,091,000	1.89	Y		Oct 2011
4.1.3) CTG, .50 LINKED (A576) ^(†)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Dec 2016	998,400	1.99	Y		Oct 2015
4.1.3) CTG, .50 LINKED (A576) ^(†)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2017	Dec 2017	800,000	1.99	Y		Oct 2015
4.1.7) CTG, 50 CAL, LKD, BALL (A555) ^(†)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2014	Mar 2015	5,330,000	1.80	Y		Oct 2011
4.1.7) CTG, 50 CAL, LKD, BALL (A555) ^(†)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2015	Nov 2016	1,420,000	1.74	Y		Oct 2011
4.1.7) CTG, 50 CAL, LKD, BALL (A555) ^(†)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Dec 2016	930,220	1.82	Y		Oct 2015
4.1.7) CTG, 50 CAL, LKD, BALL (A555) ^(†)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2017	Dec 2017	1,176,842	1.90	Y		Oct 2015
4.1.8) CTG, 50 CAL, LKD & TRACER (A557) ^(†)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2014	Mar 2015	7,811,200	1.75	Y		Oct 2011
4.1.8) CTG, 50 CAL, LKD & TRACER (A557) ^(†)	✓	2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2014	Jan 2016	977,200	1.75	Y		Oct 2011
4.1.8) CTG, 50 CAL, LKD & TRACER (A557) ^(†)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2015	Nov 2016	5,678,286	1.75	Y		Oct 2011
4.1.8) CTG, 50 CAL, LKD & TRACER (A557) ^(†)	✓	2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Apr 2017	355,428	1.75	Y		Oct 2011
4.1.8) CTG, 50 CAL, LKD & TRACER (A557) ^(†)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	3,755,600	1.87	Y		Oct 2011

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.1.8) CTG, 50 CAL, LKD & TRACER (A557) ^(†)	✓	2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	536,400	1.87	Y		Oct 2011
4.1.8) CTG, 50 CAL, LKD & TRACER (A557) ^(†)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	Mar 2018	3,610,552	1.99	Y		Oct 2015
5.1.1) CTG, CAL 5.56MM, FRANGIBLE (AA40)		2013	FEDERAL CARTRIDGE / MINNESOTA.	C / FFP	NSWC CRANE	Aug 2013	Aug 2016	3,894,240	0.39	Y		Mar 2011
5.1.1) CTG, CAL 5.56MM, FRANGIBLE (AA40)		2014	FEDERAL CARTRIDGE / MINNESOTA.	C / FFP	NSWC CRANE	Jun 2014	Oct 2016	803,040	0.40	Y		Mar 2011
5.1.1) CTG, CAL 5.56MM, FRANGIBLE (AA40)		2015	FEDERAL CARTRIDGE / MINNESOTA.	C / FFP	NSWC CRANE	Mar 2015	Jan 2017	2,439,024	0.41	Y		Mar 2011
5.1.3) CTG, 5.56MM M855 (A059) ^(†)	✓	2013	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2014	Nov 2015	645,120	0.22	Y		Oct 2011
5.1.3) CTG, 5.56MM M855 (A059) ^(†)		2014	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2015	13,211,520	0.22	Y		Oct 2011
5.1.3) CTG, 5.56MM M855 (A059) ^(†)		2015	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Jun 2017	11,133,360	0.22	Y		Oct 2011
5.1.3) CTG, 5.56MM M855 (A059) ^(†)	✓	2015	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jan 2016	Jan 2017	4,514,139	0.22	Y		Oct 2011
5.1.3) CTG, 5.56MM M855 (A059) ^(†)		2016	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	9,999,360	0.24	Y		Oct 2011
5.1.3) CTG, 5.56MM M855 (A059) ^(†)	✓	2016	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	2,096,640	0.24	Y		Oct 2011
5.1.3) CTG, 5.56MM M855 (A059) ^(†)		2017	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2017	Oct 2018	8,200,000	0.24	Y		Oct 2011
5.1.5) CTG, 5.56MM, SRTR AMMO (AA68)		2014	JMC ROCK ISLAND / ROCK ISLAND, IL	MIPR	JMC ROCK ISLAND	Jan 2014	Jan 2015	511,680	0.47	Y		Oct 2013
5.1.7) (AB10) 5.56MM, M1042 UTM, Red (AB10)		2014	ULTIMATE TRAINING MUNITIONS / CANADA	SS / IDIQ	JMC ROCK ISLAND	May 2014	Oct 2014	626,400	0.64	Y		Oct 2013
6.1.1) CTG, 7.62MM (A257) ^(†)		2013	ATK LAKE CITY / LAKE CITY.	C / FFP	JMC ROCK ISLAND	Sep 2013	Oct 2014	519,000	0.45	Y		Oct 2011
6.1.1) CTG, 7.62MM (A257) ^(†)		2014	ATK LAKE CITY / LAKE CITY.	C / FFP	JMC ROCK ISLAND	Jun 2014	Nov 2015	928,500	0.47	Y		Oct 2013
6.1.1) CTG, 7.62MM (A257) ^(†)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Apr 2016	366,000	0.46	Y		Oct 2013
6.1.1) CTG, 7.62MM (A257) ^(†)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Jan 2017	360,000	0.48	Y		Oct 2013
6.1.1) CTG, 7.62MM (A257) ^(†)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2017	Jan 2018	350,000	0.48	Y		Oct 2013
6.1.2) CARTR, 7.62MM (AA11)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Jan 2017	132,480	1.21	Y		Oct 2011

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
6.1.7) CTG, 7.62MM, SRTA, BALL, LINKED M973 (AB60)		2015	GDOTS CANADA / CANADA	C / TBD	** NO PCO **	Oct 2014	Aug 2015	4,300	1.85	N		
6.1.7) CTG, 7.62MM, SRTA, BALL, LINKED M973 (AB60)		2017	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2017	Jan 2018	200,000	1.79	Y		Oct 2016
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131) ^(f)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Sep 2014	Feb 2016	2,380,000	0.51	Y		Oct 2013
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131) ^(f)	✓	2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2014	Nov 2015	1,648,000	0.51	Y		Oct 2013
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131) ^(f)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2016	2,225,600	0.49	Y		Oct 2013
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131) ^(f)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	6,496,000	0.55	Y		Oct 2013
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131) ^(f)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2017	Oct 2018	6,500,000	0.54	Y		Oct 2013
6.1.10) CTG, 7.62MM, BALL, M80, LKD (A143) ^(f)		2014	ATK LAKE CITY. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Jan 2015	1,732,000	0.49	Y		Oct 2013
6.1.10) CTG, 7.62MM, BALL, M80, LKD (A143) ^(f)		2015	ATK LAKE CITY. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2016	1,680,800	0.47	Y		Oct 2013
6.1.10) CTG, 7.62MM, BALL, M80, LKD (A143) ^(f)		2016	ATK LAKE CITY / LAKE CITY.	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	992,000	0.53	Y		Oct 2013
6.1.10) CTG, 7.62MM, BALL, M80, LKD (A143) ^(f)		2017	ATK LAKE CITY / LAKE CITY.	C / FFP	JMC ROCK ISLAND	Mar 2017	Oct 2018	850,000	0.53	Y		Oct 2013
6.1.11) CTG, 7.62MM, LKD (A165) ^(f)		2014	ATK LAKE CITY. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Jan 2015	2,182,500	0.48	Y		Oct 2011
6.1.11) CTG, 7.62MM, LKD (A165) ^(f)	✓	2014	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2014	Sep 2015	1,819,500	0.47	Y		Oct 2011
6.1.11) CTG, 7.62MM, LKD (A165) ^(f)	✓	2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jan 2016	Jun 2017	1,086,000	0.45	Y		Oct 2011
6.1.11) CTG, 7.62MM, LKD (A165) ^(f)		2015	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Jun 2016	2,885,420	0.45	Y		Oct 2011
6.1.11) CTG, 7.62MM, LKD (A165) ^(f)		2016	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	2,952,000	0.48	Y		Oct 2011
6.1.11) CTG, 7.62MM, LKD (A165) ^(f)	✓	2016	ATK LAKE CITY .. / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2017	1,044,000	0.48	Y		Oct 2011
6.1.11) CTG, 7.62MM, LKD (A165) ^(f)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2017	Aug 2018	2,000,000	0.48	Y		Oct 2011

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
6.1.14) (AA37) CTG, 7.62MM SHORT RANGE TRAINING AMMO (AA37)		2014	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Aug 2014	Nov 2015	97,200	1.83	Y		Oct 2013
6.1.14) (AA37) CTG, 7.62MM SHORT RANGE TRAINING AMMO (AA37)		2016	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2016	Feb 2017	230,400	0.89	Y		Oct 2013
7.1.1) CTG, .38 BLANK (A403)		2015	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Apr 2015	Sep 2015	10,000	0.29	Y		Jun 2012
7.1.1) CTG, .38 BLANK (A403)		2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2016	Jul 2017	10,000	0.30	Y		Oct 2015
8.1.1) CTG, .45 CAL BALL (A475)		2014	OLIN CORPORATION / ILLINOIS.	C / FFP	JMC ROCK ISLAND	Jul 2014	Sep 2015	100,000	0.29	Y		Oct 2013
9.1.1) CTG, 9MM, BALL (A363) ^(†)		2014	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Jun 2014	Nov 2015	8,430,000	0.17	Y		Oct 2013
9.1.1) CTG, 9MM, BALL (A363) ^(†)		2015	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2015	Sep 2016	10,930,564	0.14	Y		Oct 2013
9.1.1) CTG, 9MM, BALL (A363) ^(†)	✓	2015	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Jan 2016	Jun 2017	3,266,000	0.14	Y		Oct 2013
9.1.1) CTG, 9MM, BALL (A363) ^(†)		2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2016	Mar 2017	12,000,000	0.16	Y		Oct 2015
9.1.1) CTG, 9MM, BALL (A363) ^(†)		2017	TBD / TBD	TBD	JMC ROCK ISLAND	Mar 2017	Mar 2018	9,000,000	0.16	Y		Oct 2015
9.1.3) CTG, 9MM, FRANGIBLE (AA16)		2016	TBD / TBD	C / FFP	NSWC CRANE	Mar 2016	Apr 2017	2,976,000	0.31	Y		Oct 2015
9.1.3) CTG, 9MM, FRANGIBLE (AA16)		2017	TBD / TBD	C / FFP	NSWC CRANE	Mar 2017	Apr 2018	2,500,000	0.31	Y		Oct 2015
9.1.7) (AB13) CTG, 9MM, FX, MARKING, BLUE (AB13)		2015	ULTIMATE TRAINING MUNITIONS / CANADA	C / FFP	ACC-PICATINNY, NJ	Apr 2015	Dec 2015	1,008,000	0.56	Y		Oct 2012
9.1.8) (AB14) CTG, 9MM, FX, MARKING, RED (AB14) ^(†)		2014	ULTIMATE TRAINING MUNITIONS / CANADA	C / FFP	ACC-PICATINNY, NJ	Mar 2014	Sep 2014	1,618,000	0.55	Y		Oct 2012
9.1.8) (AB14) CTG, 9MM, FX, MARKING, RED (AB14) ^(†)		2015	ULTIMATE TRAINING MUNITIONS / CANADA	C / FFP	ACC-PICATINNY, NJ	Apr 2015	Dec 2015	1,008,000	0.56	Y		Oct 2012
9.1.8) (AB14) CTG, 9MM, FX, MARKING, RED (AB14) ^(†)		2016	ULTIMATE TRAINING MUNITIONS / CANADA	SS / FFP	ACC-PICATINNY, NJ	Mar 2016	Sep 2017	960,000	0.61	Y		Oct 2015
9.1.8) (AB14) CTG, 9MM, FX, MARKING, RED (AB14) ^(†)		2017	ULTIMATE TRAINING MUNITIONS / CANADA	SS / FFP	ACC-PICATINNY, NJ	Mar 2017	Dec 2017	650,000	0.61	Y		Oct 2015
10.1.1) FUZE, DELAY M228 (G878)		2015	MARTIN ELECTRONICS, INC. / PERRY,FL	C / FFP	JMC ROCK ISLAND	Oct 2015	Apr 2017	1,900	12.78	Y		Jun 2011
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ^(†)		2014	RHEINMETALL / GERMANY	SS / FFP	NSWC CRANE	May 2014	Mar 2015	281	786.48	Y		Dec 2013
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ^(†)		2016	RHEINMETALL / GERMANY	SS / FFP	NSWC CRANE	May 2016	Oct 2016	4,992	316.71	Y		Oct 2013
10.1.3) GRENADE, HND, SMK, GREEN (GG32)		2015	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP QUANTICO	May 2015	Apr 2017	10,000	31.20	Y		Oct 2013

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
10.1.5) GRENADE, HND, SMK, YELLOW (GG31)		2015	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP QUANTICO	May 2015	Apr 2017	10,000	33.10	Y		Oct 2012
10.1.6) GRENADE, HND, SMK, WHITE (GG34)		2015	RHEINMETALL / GERMANY	SS / FFP	MARINE CORP QUANTICO	Jul 2015	Dec 2016	10,000	29.30	Y		Jun 2009
10.1.7) GRENADE, HND, SMK, RED (G950)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	MIPR	NO PCO	Mar 2017	Sep 2018	10,000	54.00	Y		Jul 2016
11.1.2) MINE AP M18A1WITH SHOCK TUBE (J007)		2013	SPECTRA TECHNOLOGIES / CAMDEN, AK	C / FFP	JMC ROCK ISLAND	Apr 2013	Jun 2015	3,774	205.04	Y		Mar 2010
11.1.3) RIOT CNTRL, CS (K765)		2015	JMC ROCK ISLAND / ROCK ISLAND, IL	C / FFP	JMC ROCK ISLAND	May 2015	Jan 2017	15,780	0.40	Y		Oct 2014
12.1.1) CTG., 12 GA, RUBBER, FIN STAB (AA51)		2012	SAFARILAND / CASPER, WY	C / FFP	ACC-PICATINNY, NJ	May 2013	Jul 2014	15,040	1.87	Y		May 2012
12.1.3) CTG, 12 GA NO. 00 (A011) ^(†)		2015	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2015	Apr 2016	711,000	0.52	Y		Oct 2013
12.1.3) CTG, 12 GA NO. 00 (A011) ^(†)		2016	OLIN CORP / ILLINOIS.	C / FFP	JMC ROCK ISLAND	Mar 2016	Apr 2017	752,640	0.52	Y		Oct 2013
12.1.3) CTG, 12 GA NO. 00 (A011) ^(†)		2017	OLIN CORP / ILLINOIS	C / FFP	JMC	Oct 2016	Nov 2017	750,000	0.52	Y		Oct 2013
12.1.4) CTG, 12 GA, FRANGIBLE (AA86)		2015	TBD / TBD	C / FFP	NSWC Indian Head	Mar 2016	Apr 2016	1,244,770	1.09	Y		Dec 2015
12.1.4) CTG, 12 GA, FRANGIBLE (AA86)		2016	TBD / TBD	C / FFP	NSWC Indian Head	Mar 2016	Apr 2017	998,400	0.65	Y		Dec 2015
13.1.1) CTG, .22 CAL, BALL, LR, MATCH (A091)		2013	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Sep 2013	Aug 2014	2,215,000	0.13	Y		Jan 2012
13.1.2) CTG., 12 GA SHOTGUN (A002)		2015	TBD / TBD	C / FFP	ACC-PICATINNY, NJ	Sep 2015	Jan 2016	203,000	0.40	Y		Jul 2015
13.1.3) CTG., 12 GAUGE SHOTGUN, TRAP/SKEET PAS (A003)		2015	TBD / TBD	C / FFP	ACC-PICATINNY, NJ	Sep 2015	Jan 2016	203,000	0.40	Y		Jul 2015
13.1.5) CTG., 45 CAL, BALL, M1911, M (A483)		2013	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Jul 2013	Oct 2014	112,000	0.28	Y		Jun 2012

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0335 / Small Arms & Lndg Party Ammo **Item Number / Title [DODIC]:** 1 / Integrated Warfare Systems

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2013												Fiscal Year 2014												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
4.1.3) CTG, .50 LINKED (A576)																															
Prior Years Deliveries: 3585916																															
	1	2015	NAVY	1.091	-	1.091																							1.091		
	1	2016	NAVY	.998	-	.998																							.998		
	1	2017	NAVY	.800	-	.800																							.800		
4.1.7) CTG, 50 CAL, LKD, BALL (A555)																															
Prior Years Deliveries: 3568800																															
	2	2014	NAVY	5.330	-	5.330																							5.330		
	2	2015	NAVY	1.420	-	1.420																							1.420		
	2	2016	NAVY	.930	-	.930																							.930		
	2	2017	NAVY	1.177	-	1.177																							1.177		
4.1.8) CTG, 50 CAL, LKD & TRACER (A557)																															
Prior Years Deliveries: 9946400																															
	3	2014	NAVY	7.811	-	7.811																							7.811		
✓	3	2014	NAVY	.977	-	.977																							.977		
	3	2015	NAVY	5.678	-	5.678																							5.678		
✓	3	2015	NAVY	.355	-	.355																							.355		
	3	2016	NAVY	3.756	-	3.756																							3.756		
✓	3	2016	NAVY	.536	-	.536																							.536		
	4	2017	NAVY	3.611	-	3.611																							3.611		
5.1.3) CTG, 5.56MM M855 (A059)																															
Prior Years Deliveries: 20558160																															
✓	5	2013	NAVY	.645	-	.645																							.645		
	5	2014	NAVY	13.212	-	13.212																							13.212		
	5	2015	NAVY	11.133	-	11.133																							11.133		
✓	5	2015	NAVY	4.514	-	4.514																							4.514		
	5	2016	NAVY	9.999	-	9.999																							9.999		
✓	5	2016	NAVY	2.097	-	2.097																							2.097		
	5	2017	NAVY	8.200	-	8.200																							8.200		
6.1.1) CTG, 7.62MM (A257)																															
Prior Years Deliveries: 283500																															
	7	2013	NAVY	.519	-	.519																							.519		
	7	2014	NAVY	.928	-	.928																							.928		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0335 / Small Arms & Lndg Party Ammo **Item Number / Title [DODIC]:** 1 / Integrated Warfare Systems

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2015													Fiscal Year 2016													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
4.1.3) CTG, .50 LINKED (A576)																																	
Prior Years Deliveries: 3585916																																	
	1	2015	NAVY	1.091	-	1.091																							1.091				
	1	2016	NAVY	.998	-	.998																							.998				
	1	2017	NAVY	.800	-	.800																							.800				
4.1.7) CTG, 50 CAL, LKD, BALL (A555)																																	
Prior Years Deliveries: 3568800																																	
	2	2014	NAVY	5.330	-	5.330							1.000	1.000	1.000	1.000	1.000	.330											-				
	2	2015	NAVY	1.420	-	1.420																							1.420				
	2	2016	NAVY	.930	-	.930																							.930				
	2	2017	NAVY	1.177	-	1.177																							1.177				
4.1.8) CTG, 50 CAL, LKD & TRACER (A557)																																	
Prior Years Deliveries: 9946400																																	
	3	2014	NAVY	7.811	-	7.811							1.000	1.000	1.000	1.365	1.600	1.425	.421										-				
✓	3	2014	NAVY	.977	-	.977																					.500	.477	-				
	3	2015	NAVY	5.678	-	5.678																							5.678				
✓	3	2015	NAVY	.355	-	.355																							.355				
	3	2016	NAVY	3.756	-	3.756																							3.756				
✓	3	2016	NAVY	.536	-	.536																							.536				
	4	2017	NAVY	3.611	-	3.611																							3.611				
5.1.3) CTG, 5.56MM M855 (A059)																																	
Prior Years Deliveries: 20558160																																	
✓	5	2013	NAVY	.645	-	.645																							-				
	5	2014	NAVY	13.212	-	13.212																							-				
	5	2015	NAVY	11.133	-	11.133																							11.133				
✓	5	2015	NAVY	4.514	-	4.514																							4.514				
	5	2016	NAVY	9.999	-	9.999																							9.999				
✓	5	2016	NAVY	2.097	-	2.097																							2.097				
	5	2017	NAVY	8.200	-	8.200																							8.200				
6.1.1) CTG, 7.62MM (A257)																																	
Prior Years Deliveries: 283500																																	
	7	2013	NAVY	.519	-	.519	.300	.219																					-				
	7	2014	NAVY	.928	-	.928																							-				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy																							Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1											P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo								Item Number / Title [DODIC]: 1 / Integrated Warfare Systems																			
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2015													Fiscal Year 2016													B A L A N C E					
O C C O	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 4	B A L D U E A S O F 1 O C T	Calendar Year 2015															Calendar Year 2016																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
6	2015	NAVY		.366	-	.366										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	
6	2016	NAVY		.360	-	.360																						A -	-	-	-	-	-	-	-			.360
6	2017	NAVY		.350	-	.350																															.350	
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131)																																						
Prior Years Deliveries: 21515677																																						
8	2014	NAVY		2.380	-	2.380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.000	1.380									
✓ 9	2014	NAVY		1.648	-	1.648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.000	.648															
9	2015	NAVY		2.226	-	2.226																																
8	2016	NAVY		6.496	-	6.496																					1.000	1.226										
8	2017	NAVY		6.500	-	6.500																					A -	-	-	-	-	-	-	-			6.496	
6.1.10) CTG, 7.62MM, BALL, M80, LKD (A143)																																						
Prior Years Deliveries: 4477046																																						
10	2014	NAVY		1.732	-	1.732	-	-	-	.500	.500	.732																										
10	2015	NAVY		1.681	-	1.681																					.500	.500	.681									
11	2016	NAVY		.992	-	.992																					A -	-	-	-	-	-	-	-			.992	
11	2017	NAVY		.850	-	.850																																
6.1.11) CTG, 7.62MM, LKD (A165)																																						
Prior Years Deliveries: 19130282																																						
13	2014	NAVY		2.182	-	2.182	-	-	.500	.500	.500	.682																										
✓ 14	2014	NAVY		1.820	-	1.820	-	-	-	-	-	-	-	.500	.500	.500	.320																					
14	2015	NAVY		2.885	-	2.885																																
✓ 12	2015	NAVY		1.086	-	1.086																																
14	2016	NAVY		2.952	-	2.952																																
✓ 14	2016	NAVY		1.044	-	1.044																																
12	2017	NAVY		2.000	-	2.000																																
9.1.1) CTG, 9MM, BALL (A363)																																						
Prior Years Deliveries: 46419084																																						
15	2014	NAVY		8.430	-	8.430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	.430							
15	2015	NAVY		10.931	-	10.931																																
✓ 15	2015	NAVY		3.266	-	3.266																																
16	2016	NAVY		12.000	-	12.000																																
16	2017	NAVY		9.000	-	9.000																																
9.1.8) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)																																						

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0335 / Small Arms & Lndg Party Ammo **Item Number / Title [DODIC]:** 1 / Integrated Warfare Systems

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2015													Fiscal Year 2016													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Prior Years Deliveries: 782000																																	
17	2014	NAVY		1.618	.800	.818	.818																						-				
17	2015	NAVY		1.008	-	1.008																							-				
18	2016	NAVY		.960	-	.960																							.960				
19	2017	NAVY		.650	-	.650																							.650				
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ⁽¹⁾																																	
20	2014	NAVY		*	-	*	-	-	-	-	-	-	-	*															-				
21	2016	NAVY		.005	-	.005																							.005				
12.1.3) CTG, 12 GA NO. 00 (A011)																																	
Prior Years Deliveries: 537920																																	
22	2015	NAVY		.711	-	.711																							-				
23	2016	NAVY		.753	-	.753																							.753				
22	2017	NAVY		.750	-	.750																							.750				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2017													Fiscal Year 2018													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
4.1.3) CTG, .50 LINKED (A576)																																	
Prior Years Deliveries: 3585916																																	
	1	2015	NAVY	1.091	-	1.091	-	-	.600	.491																					-		
	1	2016	NAVY	.998	-	.998	-	-	.500	.498																					-		
	1	2017	NAVY	.800	-	.800																									-		
4.1.7) CTG, 50 CAL, LKD, BALL (A555)																																	
Prior Years Deliveries: 3568800																																	
	2	2014	NAVY	5.330	5.330	-																									-		
	2	2015	NAVY	1.420	-	1.420	-	.500	.570	.350																					-		
	2	2016	NAVY	.930	-	.930	-	-	.400	.530																					-		
	2	2017	NAVY	1.177	-	1.177																									-		
4.1.8) CTG, 50 CAL, LKD & TRACER (A557)																																	
Prior Years Deliveries: 9946400																																	
	3	2014	NAVY	7.811	7.811	-																									-		
✓	3	2014	NAVY	.977	.977	-																									-		
	3	2015	NAVY	5.678	-	5.678	-	1.000	1.000	1.000	1.000	1.000	.678																		-		
✓	3	2015	NAVY	.355	-	.355	-	-	-	-	-	-	.355																		-		
	3	2016	NAVY	3.756	-	3.756	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		
✓	3	2016	NAVY	.536	-	.536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		
	4	2017	NAVY	3.611	-	3.611																									-		
5.1.3) CTG, 5.56MM M855 (A059)																																	
Prior Years Deliveries: 20558160																																	
✓	5	2013	NAVY	.645	.645	-																									-		
	5	2014	NAVY	13.212	13.212	-																									-		
	5	2015	NAVY	11.133	-	11.133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		
✓	5	2015	NAVY	4.514	-	4.514	-	-	-	-	4.000	.514																			-		
	5	2016	NAVY	9.999	-	9.999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		
✓	5	2016	NAVY	2.097	-	2.097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		
	5	2017	NAVY	8.200	-	8.200																									-		
6.1.1) CTG, 7.62MM (A257)																																	
Prior Years Deliveries: 283500																																	
	7	2013	NAVY	.519	.519	-																									-		
	7	2014	NAVY	.928	.928	-																									-		
																																-	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0335 / Small Arms & Lndg Party Ammo **Item Number / Title [DODIC]:** 1 / Integrated Warfare Systems

Cost Elements <i>(Units in Millions, * = < 500)</i>					Fiscal Year 2017												Fiscal Year 2018												BALANCE					
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2016	BAL D U E A S O F 1 O C T	Calendar Year 2017												Calendar Year 2018															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P			
	6	2015	NAVY	.366	.366	-																												-
	6	2016	NAVY	.360	-	.360	-		-				.360																					-
	6	2017	NAVY	.350	-	.350																												-
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131)																																		
Prior Years Deliveries: 21515677																																		
	8	2014	NAVY	2.380	2.380	-																											-	
✓	9	2014	NAVY	1.648	1.648	-																											-	
	9	2015	NAVY	2.226	2.226	-																											-	
	8	2016	NAVY	6.496	-	6.496	-		-													2.000	2.000	2.496									-	
	8	2017	NAVY	6.500	-	6.500																A -	-	-	-	-	-	-	-	-	-	-		6.500
6.1.10) CTG, 7.62MM, BALL, M80, LKD (A143)																																		
Prior Years Deliveries: 4477046																																		
	10	2014	NAVY	1.732	1.732	-																											-	
	10	2015	NAVY	1.681	1.681	-																											-	
	11	2016	NAVY	.992	-	.992	-		-																								-	
	11	2017	NAVY	.850	-	.850																												.850
6.1.11) CTG, 7.62MM, LKD (A165)																																		
Prior Years Deliveries: 19130282																																		
	13	2014	NAVY	2.182	2.182	-																											-	
✓	14	2014	NAVY	1.820	1.820	-																											-	
	14	2015	NAVY	2.885	2.885	-																											-	
✓	12	2015	NAVY	1.086	-	1.086	-		-						.686	.400																	-	
	14	2016	NAVY	2.952	-	2.952	-		-													.500	.500	.500	.500	.500	.452						-	
✓	14	2016	NAVY	1.044	-	1.044	-		-													.544	.500										-	
	12	2017	NAVY	2.000	-	2.000																A -	-	-	-	-	-	-	-	-	-	-		-
9.1.1) CTG, 9MM, BALL (A363)																																		
Prior Years Deliveries: 46419084																																		
	15	2014	NAVY	8.430	8.430	-																											-	
	15	2015	NAVY	10.931	2.000	8.931	2.000	2.000	2.000	2.000	.931																						-	
✓	15	2015	NAVY	3.266	-	3.266	-		-							2.000	1.266																-	
	16	2016	NAVY	12.000	-	12.000	-		-							2.000	2.000	2.000	2.000	2.000	2.000											-		
	16	2017	NAVY	9.000	-	9.000																											-	
9.1.8) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)																																		
<div style="display: flex; justify-content: space-between; font-weight: bold; font-size: 10px;"> O C T N O V D E C J A N 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 </div>																																		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Prior Years Deliveries: 782000																															
	17	2014	NAVY	1.618	1.618	-																								-	
	17	2015	NAVY	1.008	1.008	-																								-	
	18	2016	NAVY	.960	-	.960	-	-	-	-	-	-	-	-	-	-	.500	.460												-	
	19	2017	NAVY	.650	-	.650																								-	
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ⁽¹⁾																															
	20	2014	NAVY	*	*	-																								-	
	21	2016	NAVY	.005	-	.005	.005																							-	
12.1.3) CTG, 12 GA NO. 00 (A011)																															
Prior Years Deliveries: 537920																															
	22	2015	NAVY	.711	.711	-																								-	
	23	2016	NAVY	.753	-	.753	-	-	-	-	-	-	.400	.353																-	
	22	2017	NAVY	.750	-	.750	A	-	-	-	-	-	-	-	-	-	-	-	.400	.350										-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0335 / Small Arms & Lndg Party Ammo **Item Number / Title [DODIC]:** 1 / Integrated Warfare Systems

Cost Elements <i>(Units in Millions, * = < 500)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
4.1.3) CTG, .50 LINKED (A576)																																	
Prior Years Deliveries: 3585916																																	
	1	2015	NAVY	1.091	1.091	-																							-				
	1	2016	NAVY	.998	.998	-																							-				
	1	2017	NAVY	.800	.800	-																							-				
4.1.7) CTG, 50 CAL, LKD, BALL (A555)																																	
Prior Years Deliveries: 3568800																																	
	2	2014	NAVY	5.330	5.330	-																							-				
	2	2015	NAVY	1.420	1.420	-																							-				
	2	2016	NAVY	.930	.930	-																							-				
	2	2017	NAVY	1.177	1.177	-																							-				
4.1.8) CTG, 50 CAL, LKD & TRACER (A557)																																	
Prior Years Deliveries: 9946400																																	
	3	2014	NAVY	7.811	7.811	-																							-				
✓	3	2014	NAVY	.977	.977	-																							-				
	3	2015	NAVY	5.678	5.678	-																							-				
✓	3	2015	NAVY	.355	.355	-																							-				
	3	2016	NAVY	3.756	3.756	-																							-				
✓	3	2016	NAVY	.536	.536	-																							-				
	4	2017	NAVY	3.611	3.611	-																							-				
5.1.3) CTG, 5.56MM M855 (A059)																																	
Prior Years Deliveries: 20558160																																	
✓	5	2013	NAVY	.645	.645	-																							-				
	5	2014	NAVY	13.212	13.212	-																							-				
	5	2015	NAVY	11.133	11.133	-																							-				
✓	5	2015	NAVY	4.514	4.514	-																							-				
	5	2016	NAVY	9.999	9.999	-																							-				
✓	5	2016	NAVY	2.097	2.097	-																							-				
	5	2017	NAVY	8.200	-	8.200	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.200												-				
6.1.1) CTG, 7.62MM (A257)																																	
Prior Years Deliveries: 283500																																	
	7	2013	NAVY	.519	.519	-																							-				
	7	2014	NAVY	.928	.928	-																							-				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo
Item Number / Title [DODIC]: 1 / Integrated Warfare Systems	

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE										
OC	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020																					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP									
6		2015	NAVY	.366	.366	-																																-		
6		2016	NAVY	.360	.360	-																																-		
6		2017	NAVY	.350	.350	-																																-		
6.1.9) CTG, 7.62MM, LKD, BALL AND TR (A131)																																								
Prior Years Deliveries: 21515677																																								
	8	2014	NAVY	2.380	2.380	-																															-			
✓	9	2014	NAVY	1.648	1.648	-																															-			
	9	2015	NAVY	2.226	2.226	-																																-		
	8	2016	NAVY	6.496	6.496	-																																-		
	8	2017	NAVY	6.500	-	6.500	1.000	1.000	1.000	1.000	1.000	1.500																										-		
6.1.10) CTG, 7.62MM, BALL, M80, LKD (A143)																																								
Prior Years Deliveries: 4477046																																								
	10	2014	NAVY	1.732	1.732	-																															-			
	10	2015	NAVY	1.681	1.681	-																																-		
	11	2016	NAVY	.992	.992	-																																-		
	11	2017	NAVY	.850	-	.850	.850																															-		
6.1.11) CTG, 7.62MM, LKD (A165)																																								
Prior Years Deliveries: 19130282																																								
	13	2014	NAVY	2.182	2.182	-																															-			
✓	14	2014	NAVY	1.820	1.820	-																																-		
	14	2015	NAVY	2.885	2.885	-																																	-	
✓	12	2015	NAVY	1.086	1.086	-																																	-	
	14	2016	NAVY	2.952	2.952	-																																	-	
✓	14	2016	NAVY	1.044	1.044	-																																	-	
	12	2017	NAVY	2.000	2.000	-																																	-	
9.1.1) CTG, 9MM, BALL (A363)																																								
Prior Years Deliveries: 46419084																																								
	15	2014	NAVY	8.430	8.430	-																																-		
	15	2015	NAVY	10.931	10.931	-																																	-	
✓	15	2015	NAVY	3.266	3.266	-																																	-	
	16	2016	NAVY	12.000	12.000	-																																		-
	16	2017	NAVY	9.000	9.000	-																																		-
9.1.8) (AB14) CTG, 9MM, FX, MARKING, RED (AB14)																																								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP										

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Prior Years Deliveries: 782000																															
	17	2014	NAVY	1.618	1.618	-																							-		
	17	2015	NAVY	1.008	1.008	-																							-		
	18	2016	NAVY	.960	.960	-																							-		
	19	2017	NAVY	.650	.650	-																							-		
10.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ⁽¹⁾																															
	20	2014	NAVY	*	*	-																							-		
	21	2016	NAVY	.005	.005	-																							-		
12.1.3) CTG, 12 GA NO. 00 (A011)																															
Prior Years Deliveries: 537920																															
	22	2015	NAVY	.711	.711	-																							-		
	23	2016	NAVY	.753	.753	-																							-		
	22	2017	NAVY	.750	.750	-																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0335 / Small Arms & Lndg Party Ammo **Item Number / Title [DODIC]:** 1 / Integrated Warfare Systems

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	ATK LAKE CITY - LAKE CITY	8,000	70,000	1,640,000	4	4	9	13	4	4	18	22
2	ATK LAKE CITY - LAKE CITY	-	6,000	10,000,000	4	5	9	14	4	4	17	21
3	ATK LAKE CITY - LAKE CITY	-	6,000	10,000,000	6	6	12	18	6	6	9	15
4	TBD - TBD	-	6,000	10,000,000	4	4	12	16	4	4	19	23
5	ATK LAKE CITY .. - LAKE CITY	80	70,000	13,300,000	6	6	18	24	6	6	12	18
6	ATK LAKE CITY - LAKE CITY	80	700,000	1,640,000	6	6	13	19	6	6	10	16
7	ATK LAKE CITY - LAKE CITY.	80	700,000	1,640,000	6	6	13	19	6	6	17	23
8	ATK LAKE CITY - LAKE CITY	-	6,000	10,000,000	4	4	17	21	4	4	19	23
9	ATK LAKE CITY - LAKE CITY	-	6,000	10,000,000	4	4	12	16	4	4	17	21
10	ATK LAKE CITY. - LAKE CITY	800	70,000	2,000,000	6	5	12	17	6	6	10	16
11	ATK LAKE CITY - LAKE CITY.	800	70,000	2,000,000	6	6	19	25	6	6	8	14
12	ATK LAKE CITY - LAKE CITY	80	700,000	3,000,000	6	6	16	22	6	6	17	23
13	ATK LAKE CITY. - LAKE CITY	80	700,000	3,000,000	6	6	10	16	6	6	27	33
14	ATK LAKE CITY .. - LAKE CITY	80	700,000	3,000,000	6	6	19	25	6	6	15	21
15	OLIN CORPORATION - ILLINOIS	80	700,000	12,000,000	6	6	18	24	6	6	17	23
16	TBD - TBD	80	700,000	12,000,000	6	6	12	18	6	6	9	15
17	ULTIMATE TRAINING MUNITIONS - CANADA	5,000	25,000	1,618,000	6	6	6	12	6	6	8	14
18	ULTIMATE TRAINING MUNITIONS - CANADA	5,000	25,000	1,618,000	6	6	8	14	6	6	18	24
19	ULTIMATE TRAINING MUNITIONS - CANADA	5,000	25,000	1,618,000	6	6	6	12	6	6	9	15
20	RHEINMETALL - GERMANY	80	70,000	1,640,000	2	3	10	13	2	3	3	6
21	RHEINMETALL - GERMANY	80	70,000	1,640,000	2	3	6	9	2	3	5	8

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
22	OLIN CORP - ILLINOIS	80	70,000	1,640,000	6	6	4	10	6	6	13	19
23	OLIN CORP - ILLINOIS.	80	70,000	1,640,000	6	6	18	24	6	6	13	19

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	64.776	19.275	19.663	18.218	-	18.218
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	64.776	19.275	19.663	18.218	-	18.218
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	64.776	19.275	19.663	18.218	-	18.218

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - (AHNSW) SMCA Cost																		
Recurring Cost																		
1.1.1) (AHNSW) SMCA	-	-	0.000	-	-	-	-	-	0.735	-	-	0.708	-	-	-	-	-	0.708
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	-	-	-	<i>0.735</i>	-	-	<i>0.708</i>	-	-	-	-	-	<i>0.708</i>
<i>Subtotal: Hardware - (AHNSW) SMCA Cost</i>	-	-	<i>0.000</i>	-	-	-	-	-	<i>0.735</i>	-	-	<i>0.708</i>	-	-	-	-	-	<i>0.708</i>
Hardware - (AHNSW) GRENADES Cost																		
Recurring Cost																		
2.1.1) GRENADE, 66MM SMOKE SCREENING (GG24) ^(†)	235.00	2,000	0.470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42) ^(†)	-	-	0.000	-	-	-	-	-	-	253.80	2,004	0.509	-	-	-	253.80	2,004	0.509
2.1.3) FUZE, DELAY M228, F/M 68 HAND GRND (G878) ^(†)	5.92	12,000	0.071	12.78	11,660	0.149	-	-	-	12.01	20,360	0.245	-	-	-	12.01	20,360	0.245
2.1.4) GRENADE, HAND, FRAG (G881) ^(†)	36.33	6,000	0.218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.5) GRENADE, HAND, SMOKE, YELLOW (G945) ^(†)	50.47	10,700	0.540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1.6) GRENADE, HAND, SMOKE, RED (G950)	41.77	35,000	1.462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2.761	-	-	0.149	-	-	-	-	-	0.754	-	-	-	-	-	0.754
<i>Subtotal: Hardware - (AHNSW) GRENADES Cost</i>	-	-	2.761	-	-	0.149	-	-	-	-	-	0.754	-	-	-	-	-	0.754
Hardware - (AHNSW) 9MM CARTRIDGES Cost																		
<i>Recurring Cost</i>																		
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14) ^(†)	-	-	0.000	0.56	1,089,285	0.610	0.61	986,557	0.602	0.62	990,064	0.614	-	-	-	0.62	990,064	0.614
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13) ^(†)	-	-	0.000	0.56	1,089,285	0.610	0.59	1,000,000	0.590	0.60	1,003,000	0.602	-	-	-	0.60	1,003,000	0.602
3.1.3) CTG, 9MM BALL (A363) ^(†)	0.18	35,060,027	6.215	0.15	9,600,000	1.440	0.16	6,976,250	1.116	0.16	6,141,168	0.983	-	-	-	0.16	6,141,168	0.983
3.1.4) CTG, 9MM REDUCED RICOCHETTE, LOW PEN (AA16) ^(†)	-	-	0.000	0.47	500,000	0.235	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	6.215	-	-	2.895	-	-	2.308	-	-	2.199	-	-	-	-	-	2.199
<i>Subtotal: Hardware - (AHNSW) 9MM CARTRIDGES Cost</i>	-	-	6.215	-	-	2.895	-	-	2.308	-	-	2.199	-	-	-	-	-	2.199
Hardware - (AHNSW) 7.62MM CARTRIDGES Cost																		
<i>Recurring Cost</i>																		
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37) ^(†)	0.85	3,000,000	2.550	0.87	1,000,000	0.870	0.89	2,497,042	2.222	0.88	2,388,204	2.102	-	-	-	0.88	2,388,204	2.102
4.1.2) CTG, 7.62MM, M993 AP, W/M62 Std Tracer (AA36) ^(†)	2.57	180,000	0.463	-	-	-	-	700,500	-	-	-	-	-	-	-	-	-	-
4.1.3) CTG, 7.62MM BLANK, LINKED (A111) ^(†)	0.62	3,200,000	1.984	0.39	1,600,000	0.624	0.39	3,116,215	1.215	0.39	4,011,897	1.565	-	-	-	0.39	4,011,897	1.565
4.1.4) CTG, 7.62MM BALL LINKED (NO TRACER) (A143) ^(†)	-	-	0.000	-	-	-	-	-	-	0.53	991,000	0.525	-	-	-	0.53	991,000	0.525
4.1.5) CTG, 7.62MM LINKED 9.1 DIM	0.56	5,390,555	3.001	0.46	3,326,086	1.530	0.48	479,160	0.230	0.48	2,131,022	1.023	-	-	-	0.48	2,131,022	1.023

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
TRACED F/MK 44 (A257) ^(†)																		
4.1.6) CTG, 7.62MM BALL (SOST) (AB50)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131) ^(†)	0.65	25,363,570	16.517	0.49	7,193,877	3.525	0.55	5,711,178	3.141	0.54	4,557,000	2.461	-	-	-	0.54	4,557,000	2.461
<i>Subtotal: Recurring Cost</i>	-	-	24.516	-	-	6.549	-	-	6.808	-	-	7.676	-	-	-	-	-	7.676
<i>Subtotal: Hardware - (AHNSW) 7.62MM CARTRIDGES Cost</i>	-	-	24.516	-	-	6.549	-	-	6.808	-	-	7.676	-	-	-	-	-	7.676
Hardware - (AHNSW) 5.56MM CARTRIDGES Cost																		
Recurring Cost																		
5.1.1) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40) ^(†)	0.37	1,108,000	0.410	0.41	461,631	0.189	-	-	-	0.67	400,160	0.268	-	-	-	0.67	400,160	0.268
5.1.2) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49) ^(†)	0.59	946,000	0.554	-	-	-	-	670,760	-	-	-	-	-	-	-	-	-	-
5.1.3) CTG, 5.56MM CTG BALL B855 LKD F/SAW (A062) ^(†)	0.35	320,000	0.112	0.29	400,000	0.116	-	-	-	-	-	-	-	-	-	-	-	-
5.1.4) CTG, 5.56MM BLANK, LDD M27 LINK (A075) ^(†)	0.45	3,300,000	1.485	-	-	-	0.22	1,500,800	0.325	-	-	-	-	-	-	-	-	-
5.1.5) CTG, 5.56MM BLANK (TRAINING ITEM) (A080) ^(†)	0.29	3,182,890	0.917	-	-	-	0.15	3,762,000	0.571	-	-	-	-	-	-	-	-	-
5.1.6) CTG, 5.56MM 77 GRAIN, MK 262 MOD 0/1, LONG (AA53) ^(†)	0.65	1,977,076	1.285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.7) CTG, 5.56MM MARKING, RED (AA12)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.8) CTG, 9/5.56MM MARKING, BLUE (AA21)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0335 / Small Arms & Lndg Party Ammo **Item Number / Title [DODIC]:** 2 / Naval Special Warfare (NSW)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.1.9) CTG, 5.56MM LINKED (A064) ^(†)	0.54	3,000,000	1.620	0.53	2,240,000	1.187	0.32	208,000	0.067	0.32	2,360,000	0.755	-	-	-	0.32	2,360,000	0.755
<i>Subtotal: Recurring Cost</i>	-	-	6.385	-	-	1.492	-	-	0.963	-	-	1.023	-	-	-	-	-	1.023
<i>Subtotal: Hardware - (AHNSW) 5.56MM CARTRIDGES Cost</i>	-	-	6.385	-	-	1.492	-	-	0.963	-	-	1.023	-	-	-	-	-	1.023
Hardware - (AHNSW) .50 CAL CARTRIDGES Cost																		
Recurring Cost																		
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64) ^(†)	4.00	200,000	0.800	4.08	600,000	2.448	4.16	600,000	2.496	4.25	400,000	1.700	-	-	-	4.25	400,000	1.700
6.1.2) CTG, CAL .50 LINKED BALL (NO TRACER) (A555) ^(†)	2.49	1,503,218	3.743	-	-	-	1.82	890,109	1.620	-	-	-	-	-	-	-	-	-
6.1.3) CTG, CAL .50 LINKED, BALL/ TRACER (A557) ^(†)	1.83	1,215,846	2.225	-	-	-	2.30	643,913	1.481	-	-	-	-	-	-	-	-	-
6.1.4) CTG, CAL .50 APL MK 211 MIULTI PURPOSE (A606) ^(†)	-	-	0.000	14.55	50,160	0.730	-	-	-	-	-	-	-	-	-	-	-	-
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/ APK-T M20 (A576) ^(†)	1.96	5,381,134	10.572	1.89	1,353,968	2.559	1.99	431,456	0.859	1.99	922,302	1.835	-	-	-	1.99	922,302	1.835
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598) ^(†)	1.17	2,560,352	2.992	1.32	812,121	1.072	1.20	1,109,277	1.331	1.33	1,003,218	1.334	-	-	-	1.33	1,003,218	1.334
<i>Subtotal: Recurring Cost</i>	-	-	20.332	-	-	6.809	-	-	7.787	-	-	4.869	-	-	-	-	-	4.869
<i>Subtotal: Hardware - (AHNSW) .50 CAL CARTRIDGES Cost</i>	-	-	20.332	-	-	6.809	-	-	7.787	-	-	4.869	-	-	-	-	-	4.869
Hardware - (AHNSW) SHOTGUN CARTRIDGES Cost																		
Recurring Cost																		
7.1.1) CTG, 12 GAUGE SHOTGUN 00 BUCK (A011)	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - (AHNSW) SHOTGUN CARTRIDGES Cost</i>	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1						P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo						Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)					
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:								

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - (AHNSW) MATCH AMMO Cost																		
Recurring Cost																		
8.1.1) CTG, CAL .300 MATCH (A191) ^(t)	1.25	720,000	0.900	-	-	-	1.07	144,363	0.154	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.900	-	-	-	-	-	0.154	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - (AHNSW) MATCH AMMO Cost</i>	-	-	0.900	-	-	-	-	-	0.154	-	-	-	-	-	-	-	-	-
Hardware - (AHNSW) TRANSPORTATION ACCOUNT CODE (TAC) Cost																		
Recurring Cost																		
9.1.1) NSW TRANSPORTATION ACCOUNT CODE (TAC)	-	-	0.520	-	-	0.200	-	-	0.250	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Recurring Cost</i>	-	-	0.520	-	-	0.200	-	-	0.250	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Hardware - (AHNSW) TRANSPORTATION ACCOUNT CODE (TAC) Cost</i>	-	-	0.520	-	-	0.200	-	-	0.250	-	-	0.300	-	-	-	-	-	0.300
Support - (NS830) PRODUCTION ENGINEERING Cost																		
10.1) Production Engineering	-	-	3.146	-	-	1.181	-	-	0.658	-	-	0.689	-	-	-	-	-	0.689
<i>Subtotal: Support - (NS830) PRODUCTION ENGINEERING Cost</i>	-	-	3.146	-	-	1.181	-	-	0.658	-	-	0.689	-	-	-	-	-	0.689
Gross/Weapon System Cost	-	-	64.776	-	-	19.275	-	-	19.663	-	-	18.218	-	-	-	-	-	18.218

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0335 / Small Arms & Lndg Party Ammo					2 / Naval Special Warfare (NSW)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.1) GRENADE, 66MM SMOKE SCREENING (GG24)		2014	RHEINMETALL / GERMANY	C / FFP	JMC ROCK ISLAND	Mar 2014	Sep 2015	2,000	235.00	Y		Mar 2013
2.1.2) GRENADE, VEHICLE LAUNCHED IR/S (GG42)		2017	TBD / TBD	C / TBD	** NO PCO **	Dec 2016	Dec 2017	2,004	253.80	N	Mar 2016	Apr 2016
2.1.3) FUZE, DELAY M228, F/M 68 HAND GRND (G878)		2015	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2015	Sep 2016	11,660	12.78	Y		Jun 2011
2.1.3) FUZE, DELAY M228, F/M 68 HAND GRND (G878)		2017	TBD / TBD	C / TBD	JMC ROCK ISLAND	Oct 2016	Apr 2018	20,360	12.01	N	Aug 2015	Jun 2011
2.1.4) GRENADE, HAND, FRAG (G881)		2013	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / TEXARKANA, TX	C / FFP	JMC ROCK ISLAND	Jun 2013	Dec 2014	6,000	36.41	Y		Oct 2012
2.1.5) GRENADE, HAND, SMOKE, YELLOW (G945)		2014	RHEINMETALL / GERMANY	SS / FFP	JMC ROCK ISLAND	Mar 2014	Sep 2015	10,700	50.47	Y		Oct 2012
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2015	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	JMC ROCK ISLAND	Mar 2015	Sep 2015	1,089,285	0.56	Y		Oct 2012
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2016	986,557	0.61	N	Aug 2015	Oct 2015
3.1.1) CTG, 9MM, MARKING, RED, M1041 (AB14)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Oct 2017	Apr 2018	990,064	0.62	N		Oct 2016
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13)		2015	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2015	1,089,285	0.56	Y		Oct 2012
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13)		2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2016	Mar 2016	1,000,000	0.59	N	Aug 2015	Oct 2015
3.1.2) CTG, 9MM MARKING, BLUE, M1041 (AB13)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Oct 2016	Oct 2016	1,003,000	0.60	N	Aug 2015	Oct 2016
3.1.3) CTG, 9MM BALL (A363)		2014	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2014	Sep 2014	7,875,000	0.17	Y		Oct 2013
3.1.3) CTG, 9MM BALL (A363)	✓	2014	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2014	Sep 2014	14,094,118	0.17	Y		Oct 2013
3.1.3) CTG, 9MM BALL (A363)		2015	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2015	Sep 2015	9,600,000	0.15	Y		Oct 2013
3.1.3) CTG, 9MM BALL (A363)		2016	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2016	4,483,250	0.16	N	Aug 2015	Oct 2015
3.1.3) CTG, 9MM BALL (A363)	✓	2016	OLIN CORPORATION / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2016	2,493,000	0.16	N	Aug 2015	Oct 2015
3.1.4) CTG, 9MM REDUCED RICOCHETTE, LOW PEN (AA16)		2015	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2015	Jul 2016	500,000	0.47	Y		Mar 2012
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2014	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Jun 2014	Jun 2015	3,000,000	0.85	Y		Oct 2013
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2015	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	1,000,000	0.87	Y		Oct 2013
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2016	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	2,497,042	0.89	Y		Oct 2013
4.1.1) CTG, 7.62MM SHORT RANGE TRAINING (AA37)		2017	GDOTS CANADA / CANADA	C / FFP	JMC ROCK ISLAND	Mar 2017	Oct 2017	2,388,204	0.88	Y		Oct 2013

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo					Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.1.2) CTG, 7.62MM, M993 AP, W/ M62 Std Tracer (AA36)	✓	2014	ALLIANT TECH / ATK	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	180,000	2.57	Y		Mar 2012
4.1.2) CTG, 7.62MM, M993 AP, W/ M62 Std Tracer (AA36)		2016	ALLIANT TECH / ATK	C / FFP	JMC ROCK ISLAND	Apr 2016	Nov 2016	700,500	-	Y		Mar 2013
4.1.3) CTG, 7.62MM BLANK, LINKED (A111)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	SS / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	1,600,000	0.39	Y		Mar 2013
4.1.3) CTG, 7.62MM BLANK, LINKED (A111)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	SS / FFP	JMC ROCK ISLAND	Apr 2016	Nov 2016	3,116,215	0.39	Y		Mar 2013
4.1.4) CTG, 7.62MM BALL LINKED (NO TRACER) (A143)		2017	TBD / TBD	C / TBD	JMC ROCK ISLAND	Dec 2016	Dec 2017	991,000	0.53	N	Aug 2015	Apr 2016
4.1.5) CTG, 7.62MM LINKED 9.1 DIM TRACED F/MK 44 (A257)		2013	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	4,135,555	0.45	Y		Oct 2012
4.1.5) CTG, 7.62MM LINKED 9.1 DIM TRACED F/MK 44 (A257)	✓	2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	150,000	0.89	Y		Oct 2013
4.1.5) CTG, 7.62MM LINKED 9.1 DIM TRACED F/MK 44 (A257)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	3,326,086	0.46	Y		Oct 2013
4.1.5) CTG, 7.62MM LINKED 9.1 DIM TRACED F/MK 44 (A257)	✓	2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2017	479,160	0.48	Y		Oct 2013
4.1.5) CTG, 7.62MM LINKED 9.1 DIM TRACED F/MK 44 (A257)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / TBD	JMC ROCK ISLAND	Mar 2017	Oct 2017	2,131,022	0.48	N	Aug 2015	Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	5,094,000	0.51	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)	✓	2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Jun 2014	Jan 2015	964,570	0.93	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	6,173,469	0.49	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)	✓	2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	1,020,408	0.49	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	5,209,360	0.55	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)	✓	2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Oct 2015	May 2016	501,818	0.55	Y		Oct 2013
4.1.7) CTG, 7.62MM LNKD, BALL AND TRACER (A131)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Oct 2016	May 2017	4,557,000	0.54	Y		Oct 2013
5.1.1) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40)		2014	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Mar 2014	Feb 2015	1,108,000	0.37	Y		Mar 2011
5.1.1) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40)		2015	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Mar 2015	Feb 2016	461,631	0.41	Y		Mar 2011
5.1.1) CTG, 5.56MM JACKETED FRANGIBLE MK (AA40)		2017	FEDERAL CARTRIDGE / MINNESOTA	C / FFP	NSWC CRANE	Dec 2016	Nov 2017	400,160	0.67	N	Aug 2015	Mar 2011

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0335 / Small Arms & Lndg Party Ammo					2 / Naval Special Warfare (NSW)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.1.2) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49)		2012	ATK LAKE CITY / LAKE CITY	C / FFP	NSWC CRANE	Jun 2013	Dec 2014	700,000	0.50	Y		Oct 2012
5.1.2) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	NSWC CRANE	Mar 2014	Sep 2015	246,000	0.83	Y		Oct 2012
5.1.2) CTG, 5.56MM BALL, CARBINE, BARRIER, MK (AB49)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	NSWC CRANE	Mar 2016	Sep 2017	670,760	-	Y		Oct 2013
5.1.3) CTG, 5.56MM CTG BALL B855 LKD F/SAW (A062)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Aug 2014	320,000	0.35	Y		Oct 2013
5.1.3) CTG, 5.56MM CTG BALL B855 LKD F/SAW (A062)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Aug 2015	400,000	0.29	Y		Oct 2013
5.1.4) CTG, 5.56MM BLANK, LDD M27 LINK (A075) ^(†)		2013	ATK Lake City Army Ammunition Plant / Lake City	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	3,300,000	0.45	Y		Oct 2012
5.1.4) CTG, 5.56MM BLANK, LDD M27 LINK (A075) ^(†)		2016	ATK Lake City Army Ammunition Plant / Lake City	C / FFP	JMC ROCK ISLAND	Oct 2015	May 2016	1,500,800	0.22	Y		Oct 2013
5.1.5) CTG, 5.56MM BLANK (TRAINING ITEM) (A080)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	3,762,000	0.15	Y		Dec 2013
5.1.6) CTG, 5.56MM 77 GRAIN, MK 262 MOD 0/1, LONG (AA53)		2014	BLACK HILLS AMMUNITION / RAPID CITY, SD	SS / FFP	NSWC CRANE	Jul 2014	Aug 2015	1,403,076	0.65	Y		Oct 2012
5.1.6) CTG, 5.56MM 77 GRAIN, MK 262 MOD 0/1, LONG (AA53)	✓	2014	BLACK HILLS AMMUNITION / RAPID CITY, SD	SS / FFP	NSWC CRANE	Jul 2014	Aug 2015	574,000	0.65	Y		Oct 2012
5.1.9) CTG, 5.56MM LINKED (A064) ^(†)		2014	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2014	Aug 2014	3,000,000	0.54	Y		Oct 2011
5.1.9) CTG, 5.56MM LINKED (A064)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2015	Aug 2015	2,240,000	0.53	Y		Oct 2011
5.1.9) CTG, 5.56MM LINKED (A064)	✓	2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Dec 2015	Jul 2016	208,000	0.32	Y		Oct 2011
5.1.9) CTG, 5.56MM LINKED (A064)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Dec 2016	Jul 2017	2,360,000	0.32	Y		Oct 2011
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)		2014	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Mar 2014	Mar 2015	200,000	4.00	Y		Mar 2013
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)		2015	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Oct 2014	Oct 2015	600,000	4.08	Y		Mar 2013
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)		2016	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Mar 2016	Mar 2017	600,000	4.16	Y		Mar 2013
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64) ^(†)		2017	GENERAL DYNAMICS / MONTREAL, CN	C / FFP	NSWC CRANE	Mar 2017	Mar 2018	400,000	4.25	Y		Mar 2013
6.1.2) CTG, CAL .50 LINKED BALL (NO TRACER) (A555)		2013	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	853,218	2.33	Y		Oct 2012

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
6.1.2) CTG, CAL .50 LINKED BALL (NO TRACER) (A555)		2016	ALLIANT TECH DBA (LCAAP) - FY2016 / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	890,109	1.82	Y		Oct 2013
6.1.3) CTG, CAL .50 LINKED, BALL/TRACER (A557)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Mar 2015	1,215,846	1.83	Y		Oct 2011
6.1.3) CTG, CAL .50 LINKED, BALL/TRACER (A557)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Mar 2017	643,913	2.30	Y		Oct 2013
6.1.4) CTG, CAL .50 APL MK 211 MIULTI PURPOSE (A606)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Mar 2016	50,160	14.55	Y		Oct 2013
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)		2013	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	1,462,564	1.95	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	2,810,660	1.97	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)	✓	2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	1,107,910	1.97	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	1,089,418	1.89	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)	✓	2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	264,550	1.89	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Oct 2015	May 2016	191,758	1.99	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)	✓	2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	239,698	1.99	Y		Oct 2011
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576) ^(†)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Oct 2016	May 2017	922,302	1.99	N	Aug 2015	Oct 2011
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2013	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Jun 2013	Jan 2014	1,182,352	1.19	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2014	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	1,378,000	1.15	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2015	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2015	Oct 2015	812,121	1.32	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2016	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Mar 2016	Oct 2016	1,109,277	1.20	Y		Oct 2012
6.1.6) CTG, CAL .50 LINKED, BLANK, M1A1 (A598)		2017	ATK LAKE CITY / LAKE CITY	C / FFP	JMC ROCK ISLAND	Oct 2016	May 2017	1,003,218	1.33	Y		Oct 2012
8.1.1) CTG, CAL .300 MATCH (A191)		2014	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	240,000	1.25	Y		Mar 2013
8.1.1) CTG, CAL .300 MATCH (A191)	✓	2014	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Mar 2014	Oct 2014	480,000	1.25	Y		Mar 2013

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
8.1.1) CTG, CAL .300 MATCH (A191)		2016	OLIN CORP / ILLINOIS	C / FFP	JMC ROCK ISLAND	Dec 2015	Jul 2016	144,363	1.07	Y		Mar 2013

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N / 01 / 1

P-1 Line Item Number / Title:
0335 / Small Arms & Lndg Party Ammo

Item Number / Title [DODIC]:
2 / Naval Special Warfare (NSW)

Cost Elements <small>(Units in Millions, * = < 500)</small>					Fiscal Year 2013												Fiscal Year 2014												B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
5.1.4) CTG, 5.56MM BLANK, LDD M27 LINK (A075)																															
1		2013	NAVY	3.300	-	3.300												A -										2.000	1.300		-
1		2016	NAVY	1.501	-	1.501																									1.501
5.1.9) CTG, 5.56MM LINKED (A064)																															
2		2014	NAVY	3.000	-	3.000																									-
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)																															
3		2017	NAVY	.400	-	.400																									.400
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)																															
4		2017	NAVY	.922	-	.922																									.922
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0335 / Small Arms & Lndg Party Ammo **Item Number / Title [DODIC]:** 2 / Naval Special Warfare (NSW)

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE
O C O #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
5.1.4) CTG, 5.56MM BLANK, LDD M27 LINK (A075)																														
1	2013	NAVY	3.300	3.300	-																								-	
1	2016	NAVY	1.501	-	1.501																								-	
5.1.9) CTG, 5.56MM LINKED (A064)																														
2	2014	NAVY	3.000	3.000	-																								-	
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)																														
3	2017	NAVY	.400	-	.400																								.400	
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)																														
4	2017	NAVY	.922	-	.922																								.922	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)
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Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE
O C O #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
5.1.4) CTG, 5.56MM BLANK, LDD M27 LINK (A075)																														
1	2013	NAVY	3.300	3.300	-																								-	
1	2016	NAVY	1.501	1.501	-																								-	
5.1.9) CTG, 5.56MM LINKED (A064)																														
2	2014	NAVY	3.000	3.000	-																								-	
6.1.1) CTG, 50 CAL, LINKED, BALL MK 322/TRACER MK (AB64)																														
3	2017	NAVY	.400	-	.400																								-	
6.1.5) CTG, CAL .50 LINKED, M2 APL, M8/APK-T M20 (A576)																														
4	2017	NAVY	.922	-	.922	A	-	-	-	-	-	-	-	.350	.350	.222													-	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0335 / Small Arms & Lndg Party Ammo	Item Number / Title [DODIC]: 2 / Naval Special Warfare (NSW)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	ATK Lake City Army Ammunition Plant - Lake City	-	14,100	48,700	6	6	7	13	6	6	7	13
2	ALLIANT TECH DBA (LCAAP) - INDEPENDENCE, MO	-	11,500	39,300	6	6	5	11	6	6	7	13
3	GENERAL DYNAMICS - MONTREAL, CN	-	-	-	6	29	12	41	6	29	12	41
4	ATK LAKE CITY - LAKE CITY	-	1,150	10,000,000	6	6	12	18	6	6	7	13

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	58.390	14.565	12.798	9.806	1.122	10.928	9.479	11.181	10.910	11.132	-	139.383
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	58.390	14.565	12.798	9.806	1.122	10.928	9.479	11.181	10.910	11.132	-	139.383
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	58.390	14.565	12.798	9.806	1.122	10.928	9.479	11.181	10.910	11.132	-	139.383

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

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

Description:

Program provides pyrotechnics and demolition materials for all active naval vessels, construction battalions, mobile diving and salvage units, cargo handling and port groups, naval security groups, and explosive ordnance disposal groups/mobile units/detachments/teams. Pyrotechnics are used for training, combat exercises, submarine rescue and personnel search, and rescue operations. These items consist of illumination, signaling, identification, and location devices using flares or smoke as the primary signaling agent.

Demolitions consist of explosive devices and accessories and are required for fleet units to perform training functions and operations/requirements. Fleet requirements are based upon CNO approved allowance lists for special needs on a case by case basis and worldwide fleet expenditure. This program also provides materials to support the ship shock test program.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Navy	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.480	12.712	9.712	1.122	10.834	9.388	11.087	10.822
NR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.085	0.086	0.094	-	0.094	0.091	0.094	0.088
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.565	12.798	9.806	1.122	10.928	9.479	11.181	10.910

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition

P-1 Line Item Number / Title:
0340 / Pyrotechnic and Demolition

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Integrated Warfare Systems	P-5a		- / 56.088	- / 12.100	- / 11.366	- / 8.989	- / 1.122	- / 10.111
P-5	2 / Naval Special Warfare	P-5a		- / 2.302	- / 2.465	- / 1.432	- / 0.817	- / -	- / 0.817
P-40	Total Gross/Weapon System Cost			- / 58.390	- / 14.565	- / 12.798	- / 9.806	- / 1.122	- / 10.928

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

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

Justification:
The FY 2017 funding request was reduced by \$380 thousand to account for the availability of prior year execution balances. Additional decrease by \$485 thousand to Pyrotechnic and Demolition as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 baseline funding procures pyrotechnics to support surface, air, ground, and underwater Navy requirements for training, combat exercises, submarine rescue, and personnel search and rescue operations, and demolition consisting of explosive devices and accessories to support fleet units performing training and operational exercises.

Pyrotechnics and demolition materials consists of smoke and flare signals for safety of life, simulators, remote and time delay firing devices, safe and arming devices, demolition charges, blasting caps, detonating cord, time fuze, cable cutters, IED disrupters, cartridge actuated devices, shape charges, and shock test charges. These materials are used by all Navy platforms, and Navy Mobile Construction Battalions, mobile diving and salvage units, cargo handling and port groups, naval security groups, fleet composite operational readiness groups, and Explosive Ordnance Disposal groups, mobile units, detachments, and teams.

Baseline funding also provides Product Improvement Programs to resolve obsolescence issues in cartridge actuated devices. Baseline program funds Renovation of firing devices and supply components for demolition items, and Production Engineering and Gauge requirements for pyrotechnics and demolition materials.

OCO:
FY 2017 OCO funding will be used to reset munitions expended in support of Operation Freedom's Sentinel (OFS).

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	56.088	12.100	11.366	8.989	1.122	10.111
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	56.088	12.100	11.366	8.989	1.122	10.111
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	56.088	12.100	11.366	8.989	1.122	10.111

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)

Hardware - AJ100 TRANSPORTATION ACCOUNT CODE Cost

Recurring Cost																		
1.1.1) TRANSPORTATION ACCOUNT CODE (N97)	-	-	0.155	-	-	-	-	-	0.050	-	-	0.040	-	-	-	-	-	0.040
1.1.2) TRANSPORTATION ACCOUNT CODE (N96)	-	-	0.647	-	-	0.139	-	-	0.159	-	-	0.196	-	-	-	-	-	0.196
1.1.3) TRANSPORTATION ACCOUNT CODE (N95)	-	-	0.035	-	-	-	-	-	0.042	-	-	0.014	-	-	-	-	-	0.014
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.837</i>	-	-	<i>0.139</i>	-	-	<i>0.251</i>	-	-	<i>0.250</i>	-	-	-	-	-	<i>0.250</i>
<i>Subtotal: Hardware - AJ100 TRANSPORTATION ACCOUNT CODE Cost</i>	-	-	<i>0.837</i>	-	-	<i>0.139</i>	-	-	<i>0.251</i>	-	-	<i>0.250</i>	-	-	-	-	-	<i>0.250</i>

Hardware - AJ100 PE/QA SMCA Cost

Recurring Cost																		
2.1.1) PE/QA SMCA	-	-	3.302	-	-	0.190	-	-	0.550	-	-	0.350	-	-	-	-	-	0.350
<i>Subtotal: Recurring Cost</i>	-	-	<i>3.302</i>	-	-	<i>0.190</i>	-	-	<i>0.550</i>	-	-	<i>0.350</i>	-	-	-	-	-	<i>0.350</i>
<i>Subtotal: Hardware - AJ100 PE/QA SMCA Cost</i>	-	-	<i>3.302</i>	-	-	<i>0.190</i>	-	-	<i>0.550</i>	-	-	<i>0.350</i>	-	-	-	-	-	<i>0.350</i>

Hardware - AJ100 CUTTERS & CARTRIDGES Cost

Recurring Cost																		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition
		Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.1.1) CTG, 50 CAL BLANK, ELEC, MK20 (SS01) ^(†)	184.93	4,380	0.810	191.05	4,570	0.873	194.74	3,954	0.770	197.92	4,143	0.820	-	-	-	197.92	4,143	0.820
3.1.2) CUTTER, MK20, NON-ELECTRIC IN (SS43) ^(†)	1,141.67	600	0.685	823.63	500	0.412	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1.495	-	-	1.285	-	-	0.770	-	-	0.820	-	-	-	-	-	0.820
<i>Subtotal: Hardware - AJ100 CUTTERS & CARTRIDGES Cost</i>	-	-	1.495	-	-	1.285	-	-	0.770	-	-	0.820	-	-	-	-	-	0.820

Hardware - AJ100 DET CORDS, CAPS & FUZES Cost

Recurring Cost

4.1.1) CAP, BLASTING, ELEC, INERT (MP16) ^(†)	21.70	15,160	0.329	-	-	-	-	-	-	23.34	9,640	0.225	23.34	5,010	0.117	23.34	14,650	0.342
4.1.2) CAP, BLASTING, ELECTRIC MK 18 MOD 0 (DWHH) ^(†)	40.34	99,510	4.014	46.16	13,440	0.620	-	-	-	-	-	-	-	-	-	-	-	-
4.1.3) SQUIB, ELECTRIC, MK 20 MOD 2 (MP40) ^(†)	70.22	19,440	1.365	-	-	-	93.69	6,500	0.609	79.05	20,000	1.581	-	-	-	79.05	20,000	1.581
4.1.4) CAP, BLASTIN, NON-ELEC, INERT (M097) ^(†)	29.88	24,700	0.738	22.93	14,000	0.321	22.64	15,991	0.362	-	-	-	-	-	-	-	-	-
4.1.5) HOLDER, BLASTING CAP (M165) ^(†)	-	-	0.000	-	-	-	0.70	14,300	0.010	-	-	-	-	-	-	-	-	-
4.1.6) CORD, DETONATING, PRIMACORD (M456) ^(†)	0.68	2,855,000	1.942	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.7) DETONATOR, DEL, 17MS, MK 158 (DWEL)	34.50	6,840	0.236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.8) DETONATOR, NON-ELEC, MK 121 (MP17) ^(†)	-	-	0.335	212.45	8,002	1.700	-	-	-	-	-	-	-	-	-	-	-	-
4.1.9) EOD REFILL KIT-LMNS (DWGJ)	838.33	600	0.503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition
		Item Number / Title [DODIC]: 1 / Integrated Warfare Systems

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
4.1.10) FUZE, BLASTING, TIME (M670) ^(†)	0.49	1,356,000	0.665	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.1.11) IGNITIER, TIME BLASTING FUZE (MN08) ^(†)	5.35	43,956	0.235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	10.362	-	-	2.641	-	-	0.981	-	-	1.806	-	-	0.117	-	-	1.923
<i>Subtotal: Hardware - AJ100 DET CORDS, CAPS & FUZES Cost</i>	-	-	10.362	-	-	2.641	-	-	0.981	-	-	1.806	-	-	0.117	-	-	1.923
Hardware - MINE CHARGES & CHARGE CUTTERS Cost																		
Recurring Cost																		
5.1.1) CHG KIT, DML, MK 75 (MW84) ^(†)	-	-	0.000	1,672.88	1,177	1.969	1,724.25	890	1.535	-	-	-	-	-	-	-	-	-
5.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023) ^(†)	23.12	94,790	2.192	-	-	-	-	-	-	-	-	-	31.47	17,858	0.562	31.47	17,858	0.562
5.1.3) CHG, DML, XPL ROLL, 11FT (M985) ^(†)	-	-	0.000	-	-	-	96.21	2,640	0.254	101.14	3,500	0.354	-	-	-	101.14	3,500	0.354
5.1.4) CHG, DML, XPL ROLL, 25 FT (M981) ^(†)	-	-	0.000	-	-	-	47.90	5,986	0.287	49.17	3,000	0.148	49.17	3,000	0.148	49.17	6,000	0.296
5.1.5) CHG, DML, XPL ROLL, 38 FT, 14 (M980) ^(†)	-	-	0.000	-	-	-	30.34	7,220	0.219	-	-	-	32.25	6,000	0.194	32.25	6,000	0.194
5.1.6) CUTTER, POWDER ACTUATED MK 23/1 (MN70) ^(†)	333.33	1,842	0.614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02) ^(†)	-	-	0.000	490.92	2,026	0.995	485.86	3,217	1.563	-	-	-	-	-	-	-	-	-
5.1.8) CUTTER, POWDER ACTUATED MK 24/1 (MN71) ^(†)	992.00	1,250	1.240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.9) CHG, DEML, MK149 MOD0 LOW HAZ FLEX LIN SHP (MM54) ^(†)	61.88	5,430	0.336	-	-	-	-	-	-	89.64	5,500	0.493	-	-	-	89.64	5,500	0.493

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.1.10) Chg, Demo, Mk 145 Low Hazard Flex (MM53) ^(†)	62.33	14,840	0.925	66.67	5,600	0.373	-	-	-	-	-	-	-	-	-	-	-	-
5.1.11) CHARGE, DEMO SHEET, FLEXIBLE, 0.043 THICK (M994) ^(†)	19.35	5,168	0.100	-	-	-	-	-	-	22.75	8,000	0.182	22.75	4,450	0.101	22.75	12,450	0.283
5.1.12) CHG, DEML, MK144 MOD 0 LOW HAZ FLEX (MM52) ^(†)	45.48	16,800	0.764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	6.171	-	-	3.337	-	-	3.858	-	-	1.177	-	-	1.005	-	-	2.182
<i>Subtotal: Hardware - MINE CHARGES & CHARGE CUTTERS Cost</i>	-	-	6.171	-	-	3.337	-	-	3.858	-	-	1.177	-	-	1.005	-	-	2.182
Hardware - AJ100 N97 UNDERSEA WARFARE Cost																		
<i>Recurring Cost</i>																		
6.1.1) SIG, SMK ILLUM, MAR, MK 141, GREEN (LA26) ^(†)	1,995.50	1,110	2.215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.1.2) SIG, SMK ILLUM, MAR, MK 144/118, YELLOW (LA27) ^(†)	-	-	1.500	3,471.96	428	1.486	2,520.22	371	0.935	-	-	-	-	-	-	-	-	-
6.1.3) MARKER, LOCATION, SUB, MK 140, RED (LA28) ^(†)	6,742.51	167	1.126	-	-	-	-	-	-	2,626.26	241	0.633	-	-	-	2,626.26	241	0.633
6.1.4) CTG, IMPULSE, MK148 (M663) ^(†)	-	-	0.000	-	-	-	1,480.00	100	0.148	-	-	-	-	-	-	-	-	-
6.1.5) EXPLOSIVE BOLT CARTRIDGE (MC91) ^(†)	-	-	0.000	-	-	-	-	-	-	2,893.33	150	0.434	-	-	-	2,893.33	150	0.434
6.1.6) SWITCH, SQUIB ACTUATED, MK112 (M853) ^(†)	-	-	0.000	803.28	122	0.098	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	4.841	-	-	1.584	-	-	1.083	-	-	1.067	-	-	-	-	-	1.067
<i>Subtotal: Hardware - AJ100 N97 UNDERSEA WARFARE Cost</i>	-	-	4.841	-	-	1.584	-	-	1.083	-	-	1.067	-	-	-	-	-	1.067
Hardware - AJ100 SHOCK TEST CHARGES Cost																		
<i>Recurring Cost</i>																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
7.1.1) CHARGE, SHOCK TEST, 60 LB (XW65) ^(†)	1,158.93	560	0.649	-	-	-	-	-	-	1,248.00	500	0.624	-	-	-	1,248.00	500	0.624
<i>Subtotal: Recurring Cost</i>	-	-	0.649	-	-	-	-	-	-	-	-	0.624	-	-	-	-	-	0.624
<i>Subtotal: Hardware - AJ100 SHOCK TEST CHARGES Cost</i>	-	-	0.649	-	-	-	-	-	-	-	-	0.624	-	-	-	-	-	0.624
Hardware - AJ100 SIGNALS Cost																		
<i>Recurring Cost</i>																		
8.1.1) SIGNAL ILLUMINATION, MK80/2 RED STAR (L258) ^(†)	47.45	11,000	0.522	-	-	-	-	-	-	15.49	20,536	0.318	-	-	-	15.49	20,536	0.318
8.1.2) SIG, SMK ILLUM, MAR, MK 124/1, DISTRESS (LA60) ^(†)	74.49	12,096	0.901	-	-	-	79.03	12,096	0.956	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1.423	-	-	-	-	-	0.956	-	-	0.318	-	-	-	-	-	0.318
<i>Subtotal: Hardware - AJ100 SIGNALS Cost</i>	-	-	1.423	-	-	-	-	-	0.956	-	-	0.318	-	-	-	-	-	0.318
Hardware - TRAINING DEVICES Cost																		
<i>Recurring Cost</i>																		
9.1.1) SIM, HAND GRENADE, M116 (L601) ^(†)	15.53	46,350	0.720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - TRAINING DEVICES Cost</i>	-	-	0.720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (AJ850) PRODUCT IMPROVEMENT Cost																		
<i>Recurring Cost</i>																		
10.1.1) PRODUCT IMPROVEMENT (N96) Surface Warfare	-	-	5.703	-	-	0.203	-	-	0.229	-	-	0.225	-	-	-	-	-	0.225
10.1.2) PRODUCT IMPROVEMENT (N97) Undersea Warfare	-	-	1.215	-	-	0.147	-	-	0.178	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	6.918	-	-	0.350	-	-	0.407	-	-	0.225	-	-	-	-	-	0.225
<i>Subtotal: Hardware - (AJ850) PRODUCT IMPROVEMENT Cost</i>	-	-	6.918	-	-	0.350	-	-	0.407	-	-	0.225	-	-	-	-	-	0.225

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - (AJ893) RENOVATION COMPONENTS Cost																		
Recurring Cost																		
11.1.1) RENOVATION COMPONENTS	-	-	1.378	-	-	0.010	-	-	0.114	-	-	0.106	-	-	-	-	-	0.106
<i>Subtotal: Recurring Cost</i>	-	-	1.378	-	-	0.010	-	-	0.114	-	-	0.106	-	-	-	-	-	0.106
<i>Subtotal: Hardware - (AJ893) RENOVATION COMPONENTS Cost</i>	-	-	1.378	-	-	0.010	-	-	0.114	-	-	0.106	-	-	-	-	-	0.106
Hardware - (AJ894) GAUGE REQUIREMENTS Cost																		
Recurring Cost																		
12.1.1) GAUGE REQUIREMENTS	-	-	0.119	-	-	-	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
<i>Subtotal: Recurring Cost</i>	-	-	0.119	-	-	-	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
<i>Subtotal: Hardware - (AJ894) GAUGE REQUIREMENTS Cost</i>	-	-	0.119	-	-	-	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
Hardware - (AJ895) NON-STANDARD Cost																		
Recurring Cost																		
13.1.1) NON-STANDARD	-	-	0.322	-	-	0.196	-	-	0.130	-	-	0.200	-	-	-	-	-	0.200
<i>Subtotal: Recurring Cost</i>	-	-	0.322	-	-	0.196	-	-	0.130	-	-	0.200	-	-	-	-	-	0.200
<i>Subtotal: Hardware - (AJ895) NON-STANDARD Cost</i>	-	-	0.322	-	-	0.196	-	-	0.130	-	-	0.200	-	-	-	-	-	0.200
Support - (AJ830) PRODUCTION ENGINEERING Cost																		
14.1) PRODUCTION ENGINEERING (N95) Expeditionary Warfare	-	-	0.043	-	-	-	-	-	0.016	-	-	0.050	-	-	-	-	-	0.050
14.2) PRODUCTION ENGINEERING (N96) Surface Warfare	-	-	13.864	-	-	1.877	-	-	1.297	-	-	1.360	-	-	-	-	-	1.360
14.3) PRODUCTION ENGINEERING (N97) Undersea Warfare	-	-	3.644	-	-	0.491	-	-	0.948	-	-	0.631	-	-	-	-	-	0.631
<i>Subtotal: Support - (AJ830) PRODUCTION ENGINEERING Cost</i>	-	-	17.551	-	-	2.368	-	-	2.261	-	-	2.041	-	-	-	-	-	2.041
Gross/Weapon System Cost	-	-	56.088	-	-	12.100	-	-	11.366	-	-	8.989	-	-	1.122	-	-	10.111

Remarks:

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>[Hardware] AJ100 TRANSPORTATION ACCOUNT CODE Procures all up rounds and conduct acceptance tests. Costs associated with Transportation Account Code (TAC) are for first destination of delivery of production items. Unit costs and quantities will be adjusted during the year of execution.</p> <p>[Hardware] AJ850: PRODUCT IMPROVEMENT - Provides engineering services and related efforts by government activities, the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope.</p> <p>[Hardware] AJ893: RENOVATION COMPONENTS - The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p>[Hardware] AJ894: GAUGE REQUIREMENTS - Procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and sub-assemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p>[Hardware] AJ895: NON-STANDARD - The non-standard line is to support procurement of ammunition training aids and initial procurements of required non-type classified munition items.</p> <p>[Support Cost] AJ830: PRODUCTION ENGINEERING - Provides for production engineering services.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 01 / 1			0340 / Pyrotechnic and Demolition					1 / Integrated Warfare Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.1) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2014	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	MIPR	NO PCO	Jan 2015	Nov 2016	4,380	184.91	Y		Aug 2014
3.1.1) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2015	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	MIPR	NO PCO	Jun 2015	Apr 2017	4,570	191.05	Y		Aug 2014
3.1.1) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2016	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	MIPR	NO PCO	Mar 2016	Jan 2018	1,104	194.75	Y		Oct 2015
3.1.1) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)	✓	2016	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	MIPR	NO PCO	Mar 2016	Jan 2018	2,850	194.74	Y		Oct 2015
3.1.1) CTG, 50 CAL BLANK, ELEC, MK20 (SS01)		2017	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	MIPR	NO PCO	Mar 2017	Jan 2019	4,143	197.92	Y		Oct 2015
3.1.2) CUTTER, MK20, NON-ELECTRIC IN (SS43)		2015	HANLEY INDUSTRIES INC / ALTON, IL	C / FFP	NAVSUP	Apr 2015	Dec 2016	500	823.63	Y		Jan 2015
4.1.1) CAP, BLASTING, ELEC, INERT (MP16)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	Sep 2018	9,640	23.34	Y		May 2015
4.1.1) CAP, BLASTING, ELEC, INERT (MP16)	✓	2017	TBD / TBD	C / FFP	ROCK ISLAND	Mar 2017	Sep 2018	5,010	23.34	Y		May 2015
4.1.2) CAP, BLASTING, ELECTRIC MK 18 MOD 0 (DWHH)		2014	STRESAU LABS. / SPOONER. WI	C / FFP	NSWC CRANE	May 2014	Mar 2015	43,840	40.19	Y		Sep 2011
4.1.2) CAP, BLASTING, ELECTRIC MK 18 MOD 0 (DWHH)	✓	2014	STRESAU LABS / SPOONER. WI.	C / FFP	NSWC CRANE	May 2014	Jan 2016	24,640	37.91	Y		Sep 2011
4.1.2) CAP, BLASTING, ELECTRIC MK 18 MOD 0 (DWHH)	✓	2015	STRESAU LABS. / SPOONER. WI	C / FFP	NSWC CRANE	Sep 2015	Jun 2017	13,440	46.16	Y		Sep 2011
4.1.3) SQUIB, ELECTRIC, MK 20 MOD 2 (MP40)		2013	STRESAU LABS. / SPOONER. WI	C / FFP	NSWC CRANE	Sep 2013	Sep 2015	7,920	62.12	Y		May 2012
4.1.3) SQUIB, ELECTRIC, MK 20 MOD 2 (MP40)		2014	STRESAU LABS / SPOONER. WI	C / FFP	NSWC CRANE	Dec 2014	Apr 2016	11,520	75.78	Y		May 2012
4.1.3) SQUIB, ELECTRIC, MK 20 MOD 2 (MP40)		2016	STRESAU LABS / SPOONER. WI	C / FFP	NSWC CRANE	Mar 2016	Jan 2017	6,500	93.69	Y		May 2012
4.1.3) SQUIB, ELECTRIC, MK 20 MOD 2 (MP40)		2017	STRESAU LABS. / SPOONER. WI	C / FFP	NSWC CRANE	Mar 2017	Jan 2018	20,000	79.05	Y		Apr 2012
4.1.4) CAP, BLASTIN, NON-ELEC, INERT (M097)		2015	TBD / TBD	C / FFP	JMC ROCK ISLAND	Feb 2016	Apr 2017	14,000	22.93	Y		Feb 2015
4.1.4) CAP, BLASTIN, NON-ELEC, INERT (M097)		2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2017	11,000	22.64	Y		Feb 2015
4.1.4) CAP, BLASTIN, NON-ELEC, INERT (M097)	✓	2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2016	Sep 2017	4,991	22.64	Y		Feb 2015
4.1.5) HOLDER, BLASTING CAP (M165)		2016	TBD / TBD	C / FFP	NSWC CRANE	Mar 2016	Dec 2016	14,300	0.70	Y		Oct 2015
4.1.6) CORD, DETONATING, PRIMACORD (M456)		2013	ENSIGN BICKFORD / GRAHAM, KY	SS / FFP	JMC ROCK ISLAND	Feb 2014	Apr 2015	628,000	0.68	Y		Dec 2012

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.1.6) CORD, DETONATING, PRIMACORD (M456)	✓	2013	ENSIGN BICKFORD / GRAHAM, KY.	SS / FFP	JMC ROCK ISLAND	Feb 2014	Jun 2015	764,000	0.68	Y		Dec 2012
4.1.6) CORD, DETONATING, PRIMACORD (M456)	✓	2014	ENSIGN BICKFORD / GRAHAM, KY.	SS / FFP	JMC ROCK ISLAND	May 2014	Sep 2015	779,000	0.68	Y		Dec 2012
4.1.8) DETONATOR, NON-ELEC, MK 121 (MP17)		2015	ENSIGN BICKFORD / GRAHAM, KY	C / FFP	NSWC CRANE	Mar 2015	Jun 2016	2,258	212.58	Y		Apr 2014
4.1.8) DETONATOR, NON-ELEC, MK 121 (MP17)	✓	2015	ENSIGN BICKFORD / GRAHAM, KY	C / FFP	NSWC CRANE	Mar 2015	Jun 2016	5,744	212.38	Y		Apr 2014
4.1.10) FUZE, BLASTING, TIME (M670)	✓	2011	RTI TECHNOLOGIES / COLUMBIA, CT	C / FFP	JMC ROCK ISLAND	Mar 2012	Jul 2015	436,000	0.58	Y		Mar 2011
4.1.10) FUZE, BLASTING, TIME (M670)		2012	RTI TECHNOLOGIES / COLUMBIA, CT.	C / FFP	JMC ROCK ISLAND	Apr 2012	Jul 2015	492,000	0.40	Y		Mar 2011
4.1.11) IGNITIER, TIME BLASTING FUZE (MN08)		2013	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Aug 2013	Aug 2016	43,956	5.35	Y		Dec 2012
5.1.1) CHG KIT, DML, MK 75 (MW84)		2015 ⁽¹⁾	TBD / TBD	C / FFP	JMC ROCK ISLAND	May 2016	May 2017	1,177	1,672.88	Y		Sep 2015
5.1.1) CHG KIT, DML, MK 75 (MW84)		2016 ⁽²⁾	TBD / TBD	C / FFP	JMC ROCK ISLAND	May 2016	Jun 2017	890	1,724.25	Y		Sep 2015
5.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023)		2013	AMERICAN ORDANCE / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Mar 2013	Sep 2014	44,490	21.22	Y		Oct 2009
5.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023)	✓	2017	AMERICAN ORDANCE / MIDDLETOWN, IA	SS / FFP	JMC ROCK ISLAND	Mar 2017	Sep 2018	17,858	31.47	Y		May 2014
5.1.3) CHG, DML, XPL ROLL, 11FT (M985)		2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	May 2016	May 2017	2,640	96.21	Y		Apr 2015
5.1.3) CHG, DML, XPL ROLL, 11FT (M985)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	May 2018	3,500	101.14	Y		Apr 2015
5.1.4) CHG, DML, XPL ROLL, 25 FT (M981)		2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	May 2016	Aug 2017	5,986	47.90	Y		Apr 2015
5.1.4) CHG, DML, XPL ROLL, 25 FT (M981)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	May 2018	3,000	49.17	Y		Apr 2015
5.1.4) CHG, DML, XPL ROLL, 25 FT (M981)	✓	2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	May 2018	3,000	49.17	Y		Apr 2015
5.1.5) CHG, DML, XPL ROLL, 38 FT, 14 (M980)		2016	TBD / TBD	C / FFP	JMC ROCK ISLAND	May 2016	Aug 2017	7,220	30.34	Y		Apr 2015
5.1.5) CHG, DML, XPL ROLL, 38 FT, 14 (M980)	✓	2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	Aug 2018	6,000	32.25	Y		Apr 2015
5.1.6) CUTTER, POWDER ACTUATED MK 23/1 (MN70)		2013	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	NO PCO	Sep 2013	Sep 2015	1,842	333.33	Y		Dec 2012
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02)		2015	CARTRIDGE ACTUATED DEVICES INC / FAIRFIELD, NJ	C / FFP	NSWC CRANE	Sep 2015	Mar 2017	2,026	490.92	Y		Dec 2014

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1			P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition					Item Number / Title [DODIC]: 1 / Integrated Warfare Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02)		2016	CARTRIDGE ACTUATED DEVICES INC / FAIRFIELD, NJ	C / FFP	NSWC CRANE	Mar 2016	Oct 2017	1,774	485.91	Y		Dec 2014
5.1.7) VALVE, EXPLOSIVE ELECTRIC, MK 2 MOD 1 (MW02)	✓	2016	CARTRIDGE ACTUATED DEVICES INC / FAIRFIELD, NJ	C / FFP	NSWC CRANE	Mar 2016	Oct 2017	1,443	485.79	Y		Dec 2014
5.1.8) CUTTER, POWDER ACTUATED MK 24/1 (MN71)		2014	NSWC IHEODTD / INDIAN HEAD, MD	MIPR	NO PCO	May 2014	Jul 2016	636	992.14	Y		Mar 2013
5.1.8) CUTTER, POWDER ACTUATED MK 24/1 (MN71)	✓	2014 ⁽³⁾	NSWC IHEODTD / INDIAN HEAD, MD	MIPR	NO PCO	May 2014	Jul 2016	614	991.86	Y		Mar 2013
5.1.9) CHG, DEML, MK149 MOD0 LOW HAZ FLEX LIN SHP (MM54)		2017	DONOVAN INDUSTRIES / Graham, KY	C / FFP	NSWC CRANE	Mar 2017	May 2018	5,500	89.64	Y		Oct 2013
5.1.10) Chg, Demo, Mk 145 Low Hazard Flex (MM53)	✓	2014	DONOVAN INDUSTRIES / Graham, KY	C / FFP	NSWC CRANE	May 2014	Jul 2015	5,600	66.79	Y		Oct 2013
5.1.10) Chg, Demo, Mk 145 Low Hazard Flex (MM53)	✓	2015	DONOVAN INDUSTRIES / Graham, KY.	C / FFP	NSWC CRANE	Sep 2015	Sep 2016	5,600	66.67	Y		May 2013
5.1.11) CHARGE, DEMO SHEET, FLEXIBLE, 0.043 THICK (M994)		2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	May 2018	8,000	22.75	Y		Apr 2015
5.1.11) CHARGE, DEMO SHEET, FLEXIBLE, 0.043 THICK (M994)	✓	2017	TBD / TBD	C / FFP	JMC ROCK ISLAND	Mar 2017	May 2018	4,450	22.75	Y		Apr 2015
5.1.12) CHG, DEML, MK144 MOD 0 LOW HAZ FLEX (MM52)	✓	2013	ENSIGN BICKFORD / SIMSBURY, CT	C / FFP	NSWC CRANE	Mar 2014	Mar 2015	16,320	45.48	Y		May 2013
6.1.1) SIG, SMK ILLUM, MAR, MK 141, GREEN (LA26)		2011	CHEMRING ORDANCE INC / PERRY, FL	C / FFP	NSWC CRANE	Sep 2011	Sep 2016	181	2,574.59	Y		Mar 2011
6.1.1) SIG, SMK ILLUM, MAR, MK 141, GREEN (LA26)		2013	CHEMRING ORDANCE INC / PERRY, FL	C / FFP	NSWC CRANE	Sep 2013	Sep 2016	790	1,540.51	Y		Dec 2012
6.1.2) SIG, SMK ILLUM, MAR, MK 144/118, YELLOW (LA27)		2015	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	MIPR	NO PCO	Jun 2015	Dec 2016	428	3,471.96	Y		Mar 2011
6.1.2) SIG, SMK ILLUM, MAR, MK 144/118, YELLOW (LA27)		2016	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	MIPR	NO PCO	Mar 2016	Sep 2017	371	2,520.22	Y		Mar 2011
6.1.3) MARKER, LOCATION, SUB, MK 140, RED (LA28)		2017	CRANE ARMY AMMUNITION ACTIVITY / NSWC CRANE, IND	C / FFP	NSWC CRANE	Mar 2017	Sep 2018	241	2,626.26	Y		Oct 2016
6.1.4) CTG, IMPULSE, MK148 (M663)		2016	PACIFIC SCIENTIFIC / HOLLISTER, CA	SS / FFP	NAVSUP	Mar 2016	Sep 2017	100	1,480.00	Y		Dec 2015
6.1.5) EXPLOSIVE BOLT CARTRIDGE (MC91)		2017	TBD / TBD	C / FFP	NAVSUP	Mar 2017	Sep 2018	150	2,893.33	Y		Aug 2016
6.1.6) SWITCH, SQUIB ACTUATED, MK112 (M853)		2015 ⁽⁴⁾	NETWORK ELECTRONIC CO / CHATSWORTH, CA	SS / FFP	NSWC IHEODTD	Feb 2016	Dec 2016	122	803.28	Y		May 2014
7.1.1) CHARGE, SHOCK TEST, 60 LB (XW65)		2014	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	MIPR	JMC ROCK ISLAND	May 2014	Sep 2015	560	1,158.21	Y		Sep 2013
7.1.1) CHARGE, SHOCK TEST, 60 LB (XW65)		2017	TBD / TBD	MIPR	JMC ROCK ISLAND	Mar 2017	Sep 2018	500	1,248.00	Y		Sep 2016

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 1 / Integrated Warfare Systems
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
8.1.1) SIGNAL ILLUMINATION, MK80/2 RED STAR (L258)		2017	TBD / TBD	C / FFP	NSWC CRANE	Mar 2017	Sep 2018	20,536	15.49	Y		Mar 2015
8.1.2) SIG, SMK ILLUM, MAR, MK 124/1, DISTRESS (LA60)		2014	CHEMRING ORDANCE INC / PERRY, FL	C / FFP	NSWC CRANE	Sep 2014	Sep 2015	12,096	74.49	Y		Mar 2011
8.1.2) SIG, SMK ILLUM, MAR, MK 124/1, DISTRESS (LA60)		2016	CHEMRING ORDANCE INC / PERRY, FL	C / FFP	NSWC CRANE	Mar 2016	Jan 2017	12,096	79.03	Y		Mar 2011
9.1.1) SIM, HAND GRENADE, M116 (L601)		2014	GRUCCI INC / BROOKHAVEN, NY.	C / FFP	JMC ROCK ISLAND	Jun 2014	Apr 2016	16,950	15.16	Y		Oct 2011

Footnotes:

- (1) Contracted delayed due to deficiencies in government TDP (Single Manager For Conventional Ammunition).
- (2) Contracted delayed due to deficiencies in government TDP (Single Manager For Conventional Ammunition).
- (3) FY14 - MN71 actual unit cost is \$992.14 Budget exhibit reflects \$991.86 due to rounding limitations.
- (4) Contract award delayed due to detailed negotiations with contractor on statement of work.

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 2 / Naval Special Warfare
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2.302	2.465	1.432	0.817	-	0.817
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2.302	2.465	1.432	0.817	-	0.817
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2.302	2.465	1.432	0.817	-	0.817

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - AJNSW DET, CORDS, CAPS, FUZES Cost																		
Recurring Cost																		
2.1.1) CHG, BOOSTER, 20 GM, MK 140 (MM30)	3.70	30,000	0.111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) IGNITER, TIME BLASTING FUZE (MN08) ^(†)	5.62	106,405	0.598	5.62	200,355	1.126	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.709	-	-	1.126	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - AJNSW DET, CORDS, CAPS, FUZES Cost</i>	-	-	0.709	-	-	1.126	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - AJNSW MINE CHARGERS & CHARGE CUTTERS Cost																		
Recurring Cost																		
3.1.1) CHG, DEMO, EXPLOSIVE SHEET, .333 (M986) ^(†)	-	-	0.000	135.00	5,185	0.700	135.00	4,593	0.620	-	-	-	-	-	-	-	-	-
3.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023) ^(†)	22.35	35,622	0.796	39.84	9,738	0.388	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.796	-	-	1.088	-	-	0.620	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - AJNSW MINE CHARGERS & CHARGE CUTTERS Cost</i>	-	-	0.796	-	-	1.088	-	-	0.620	-	-	-	-	-	-	-	-	-
Hardware - AJNSW TRAINING DEVICES Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition
		Item Number / Title [DODIC]: 2 / Naval Special Warfare

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
4.1.1) SIM, HAND GERNADE, M116 (L601) ^(t)	-	-	0.000	-	-	-	-	-	-	17.19	41,477	0.713	-	-	-	17.19	41,477	0.713
4.1.2) FLARE, SURFACE TRIP M49 (L495)	40.60	5,000	0.203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.203	-	-	-	-	-	-	-	-	0.713	-	-	-	-	-	0.713
<i>Subtotal: Hardware - AJNSW TRAINING DEVICES Cost</i>	-	-	0.203	-	-	-	-	-	-	-	-	0.713	-	-	-	-	-	0.713
Hardware - AJNSW SIGNALS Cost																		
Recurring Cost																		
5.1.1) SIM, PROJ, GROUND BURST M115A2 (L594) ^(t)	-	-	0.000	-	-	-	19.71	36,696	0.723	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	-	-	-	0.723	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - AJNSW SIGNALS Cost</i>	-	-	0.000	-	-	-	-	-	0.723	-	-	-	-	-	-	-	-	-
Support - (NS830) PRODUCTION ENGINEERING Cost																		
6.1) PRODUCTION ENGINEERING	-	-	0.594	-	-	0.251	-	-	0.089	-	-	0.104	-	-	-	-	-	0.104
<i>Subtotal: Support - (NS830) PRODUCTION ENGINEERING Cost</i>	-	-	0.594	-	-	0.251	-	-	0.089	-	-	0.104	-	-	-	-	-	0.104
Gross/Weapon System Cost	-	-	2.302	-	-	2.465	-	-	1.432	-	-	0.817	-	-	-	-	-	0.817

Remarks:

[Support Cost] NS830:PRODUCTION ENGINEERING - Provides for production engineering services.

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0340 / Pyrotechnic and Demolition	Item Number / Title [DODIC]: 2 / Naval Special Warfare
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.2) IGNITER, TIME BLASTING FUZE (MN08)		2014	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Apr 2015	Feb 2016	106,405	5.62	Y		Oct 2013
2.1.2) IGNITER, TIME BLASTING FUZE (MN08)		2015	MAST TECHNOLOGY / INDEPENDENCE, MO	C / FFP	JMC ROCK ISLAND	Apr 2015	Feb 2016	200,355	5.62	Y		Oct 2014
3.1.1) CHG, DEMO, EXPLOSIVE SHEET, .333 (M986)	✓	2015	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jun 2015	Oct 2016	5,185	135.00	Y		Dec 2013
3.1.1) CHG, DEMO, EXPLOSIVE SHEET, .333 (M986)	✓	2016	ENSIGN BICKFORD 2 / SIMSBURY, CT	C / FFP	JMC ROCK ISLAND	Jun 2016	Oct 2017	4,593	135.00	Y		Dec 2013
3.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023)		2013	AMERICAN ORDANCE / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Dec 2014	Dec 2016	24,552	21.22	Y		Oct 2009
3.1.2) CHG, DML, BLK, COMP C-4, 1.25 (M023)		2015	AMERICAN ORDANCE / MIDDLETOWN, IA	C / FFP	JMC ROCK ISLAND	Dec 2015	Dec 2016	9,738	39.84	Y		Dec 2013
4.1.1) SIM, HAND GERNADE, M116 (L601)		2017	UNKNOWN / UNKNOWN	C / TBD	** NO PCO **	Oct 2016	Apr 2018	41,477	17.19	N		
5.1.1) SIM, PROJ, GROUND BURST M115A2 (L594)		2016	PYROTECHNIQUE GRUCCI / RADFORD, VA	C / FFP	JMC ROCK ISLAND	Mar 2016	Jun 2017	36,696	19.71	Y		Dec 2015

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	68.521	4.271	9.143	2.900	3.495	6.395	3.073	3.109	3.137	3.203	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	68.521	4.271	9.143	2.900	3.495	6.395	3.073	3.109	3.137	3.203	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	68.521	4.271	9.143	2.900	3.495	6.395	3.073	3.109	3.137	3.203	Continuing	Continuing

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

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

Description:

This program provides funding for ammunition with value less than \$5 million.

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Ammunition less than \$5 million	P-5a, P-21		- / 68.521	- / 4.271	- / 9.143	- / 2.900	- / 3.495	- / 6.395
P-40	Total Gross/Weapon System Cost			- / 68.521	- / 4.271	- / 9.143	- / 2.900	- / 3.495	- / 6.395

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
 FY 2017 decrease by \$160 thousand to Ammunition less than \$5 million as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 baseline funding is required to procure MK-58 Marine Location Markers (MLMs) to enable day and night Search and Rescue operations and target marking from aircraft and surface combatants as well as to procure LUU-19 Aircraft Parachute Flares (APFs) to enable near-infrared illumination of target areas during night-time ground force engagements and Close Air Support (CAS) operations. Additionally, FY 2017 baseline funding is required for MLM and APF production support.

The increase in funding in FY2016 is to procure \$4.674M in Overseas Contingency Operations (OCO) funds to replenish LUU-19 APFs expended during Operation Freedom's Sentinel (OFS).

OCO:
 FY 2017 Overseas Contingency Operations (OCO) is required to procure LUU-19 APFs expended during Operation Enduring Freedom (OEF) operations, replenishing actual in-theatre supply levels. Failure to replenish LUU-19 APF expenditures will significantly diminish the US Marine Corps' ability to conduct night-time ground combat and CAS operations.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0400 / Ammunition less than \$5 million **Aggregated Items Title:** Ammunition less than \$5 million

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) HARDWARE																				
1.1) (A5010) MK-58 MARINE LOCATION MARKERS ^(†)	A		917.79	29,133	26.738	207.72	5,392	1.120	211.87	5,631	1.193	214.55	5,635	1.209	-	-	-	214.55	5,635	1.209
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}	A		1,499.39	16,420	24.620	1,631.47	1,694	2.764	1,658.65	4,534	7.520	1,696.60	741	1.257	1,696.60	2,060	3.495	1,696.60	2,801	4.752
1.3) (A5894) Miscellaneous	A		-	-	0.379	-	-	0.032	-	-	0.031	-	-	0.034	-	-	-	-	-	0.034
Subtotal: 1) HARDWARE			-	-	51.737	-	-	3.916	-	-	8.744	-	-	2.500	-	-	3.495	-	-	5.995
2) PRODUCTION SUPPORT																				
2.1) MK-58 MARINE LOCATION MARKERS	A		-	-	16.540	-	-	0.271	-	-	0.313	-	-	0.311	-	-	-	-	-	0.311
2.2) (A5820) LUU-19 Parafires Support	A		-	-	0.244	-	-	0.084	-	-	0.086	-	-	0.089	-	-	-	-	-	0.089
Subtotal: 2) PRODUCTION SUPPORT			-	-	16.784	-	-	0.355	-	-	0.399	-	-	0.400	-	-	-	-	-	0.400
Total			-	-	68.521	-	-	4.271	-	-	9.143	-	-	2.900	-	-	3.495	-	-	6.395

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

(†) indicates the presence of a P-5a

Footnotes:

(1) Unit Cost varies depending on total quantities from the United States Air Force (USAF) and United States Navy (USN).

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million	Aggregated Items: Ammunition less than \$5 million
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) HARDWARE												
1.1) (A5010) MK-58 MARINE LOCATION MARKERS ^(†)		2013	HFI PYROTECHNICS INC / Ontario, Canada	SS / FFP	Crane, IN	Mar 2013	Mar 2016	5,267	242.26	Y		Jun 2012
1.1) (A5010) MK-58 MARINE LOCATION MARKERS ^(†)		2014 ⁽²⁾	HFI PYROTECHNICS INC / Ontario, Canada	SS / FFP	Crane, IN	Sep 2015	May 2016	5,729	200.75	Y		Jun 2012
1.1) (A5010) MK-58 MARINE LOCATION MARKERS ^(†)		2015 ⁽³⁾	HFI PYROTECHNICS INC / Ontario, Canada	SS / FFP	Crane, IN	Sep 2015	Jul 2016	5,392	207.72	Y		Jun 2012
1.1) (A5010) MK-58 MARINE LOCATION MARKERS ^(†)		2016	HFI PYROTECHNICS INC / Ontario, Canada	SS / FFP	Crane, IN	Mar 2016	Mar 2017	5,631	211.87	Y		Jun 2012
1.1) (A5010) MK-58 MARINE LOCATION MARKERS ^(†)		2017	HFI PYROTECHNICS INC / Ontario, Canada	SS / FFP	Crane, IN	Mar 2017	Mar 2018	5,635	214.55	Y		Jun 2012
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}		2013	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Sep 2014	Mar 2016	1,057	1,577.00	Y		Oct 2011
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}	✓	2013	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Sep 2014	Mar 2016	4,000	1,577.00	Y		Oct 2011
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}		2014	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Oct 2014	Apr 2016	1,843	1,602.50	Y		May 2014
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}	✓	2014	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Oct 2014	Apr 2016	4,800	1,602.50	Y		May 2014
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}	✓	2015	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Aug 2015	Aug 2016	1,694	1,631.47	Y		May 2014
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}		2016	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Mar 2016	Mar 2017	1,716	1,658.65	Y		May 2014
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}	✓	2016	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Mar 2016	Mar 2017	2,818	1,658.65	Y		May 2014
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}		2017	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Mar 2017	Mar 2018	741	1,696.60	Y		May 2014
1.2) (A5011) LUU-19 PARAFIARES ^{(1)(†)}	✓	2017	ATK Launch Systems Inc. / Brigham, UTAH	SS / FFP	Rock Island, IL	Mar 2017	Mar 2018	2,060	1,696.60	Y		May 2014

^(†) indicates the presence of a P-21

Footnotes:

⁽²⁾ Due to First Article Test failure, contract was delayed. First Article Testing was completed April 2015 and contract was awarded in September 2015.

⁽³⁾ Due to First Article Test failure, contract was delayed. First Article Testing was completed April 2015 and contract was awarded in September 2015.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0400 / Ammunition less than \$5 million **Aggregated Items:** Ammunition less than \$5 million

Items <i>(Units in Each)</i>						Fiscal Year 2013												Fiscal Year 2014												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1) HARDWARE																															
1.1) (A5010) MK-58 MARINE LOCATION MARKERS																															
Prior Years Deliveries: 18137																															
	28	2013	NAVY	5,267 (4)	-	5,267																						5,267			
	28	2014	NAVY	5,729 (5)	-	5,729																						5,729			
	28	2015	NAVY	5,392	-	5,392																						5,392			
	28	2016	NAVY	5,631	-	5,631																						5,631			
	28	2017	NAVY	5,635	-	5,635																						5,635			
1.2) (A5011) LUU-19 PARAFIARES ⁽¹⁾																															
Prior Years Deliveries: 4720																															
	29	2013	NAVY	1,057	-	1,057																						A - 1,057			
✓	29	2013	NAVY	4,000	-	4,000																						A - 4,000			
	29	2014	NAVY	1,843	-	1,843																						1,843			
✓	29	2014	NAVY	4,800	-	4,800																						4,800			
✓	29	2015	NAVY	1,694	-	1,694																						1,694			
	29	2016	NAVY	1,716	-	1,716																						1,716			
✓	29	2016	NAVY	2,818	-	2,818																						2,818			
	29	2017	NAVY	741	-	741																						741			
✓	29	2017	NAVY	2,060	-	2,060																						2,060			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0400 / Ammunition less than \$5 million **Aggregated Items:** Ammunition less than \$5 million

Items <i>(Units in Each)</i>					Fiscal Year 2015													Fiscal Year 2016													BALANCE						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
1) HARDWARE																																					
1.1) (A5010) MK-58 MARINE LOCATION MARKERS																																					
Prior Years Deliveries: 18137																																					
	28	2013	NAVY	5,267 ⁽⁴⁾	-	5,267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500	500	500	500	500	500	500	500	1,767
	28	2014	NAVY	5,729 ⁽⁵⁾	-	5,729														A -	-	-	-	-	-	-	-	-	-	-	-	500	500	500	500	3,229	
	28	2015	NAVY	5,392	-	5,392														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	500	500	500	3,892
	28	2016	NAVY	5,631	-	5,631																														5,631	
	28	2017	NAVY	5,635	-	5,635																														5,635	
1.2) (A5011) LUU-19 PARAFIARES ⁽¹⁾																																					
Prior Years Deliveries: 4720																																					
	29	2013	NAVY	1,057	-	1,057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	441	
✓	29	2013	NAVY	4,000	-	4,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,669
	29	2014	NAVY	1,843	-	1,843	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	924
✓	29	2014	NAVY	4,800	-	4,800	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,400
✓	29	2015	NAVY	1,694	-	1,694																															1,412
	29	2016	NAVY	1,716	-	1,716																															1,716
✓	29	2016	NAVY	2,818	-	2,818																															2,818
	29	2017	NAVY	741	-	741																															741
✓	29	2017	NAVY	2,060	-	2,060																															2,060
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million	Aggregated Items: Ammunition less than \$5 million
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Items <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
1) HARDWARE																															
1.1) (A5010) MK-58 MARINE LOCATION MARKERS																															
Prior Years Deliveries: 18137																															
	28	2013	NAVY	5,267 ⁽⁴⁾	3,500	1,767	500	500	500	267																			-		
	28	2014	NAVY	5,729 ⁽⁵⁾	2,500	3,229	500	500	500	500	500	500	229																-		
	28	2015	NAVY	5,392	1,500	3,892	500	500	500	500	500	500	392															-			
	28	2016	NAVY	5,631	-	5,631	-	-	-	-	-	469	469	469	469	469	469	469	470	470	470							-			
	28	2017	NAVY	5,635	-	5,635																						-			
																													2,350		
1.2) (A5011) LUU-19 PARAFIARES ⁽¹⁾																															
Prior Years Deliveries: 4720																															
	29	2013	NAVY	1,057	616	441	88	88	88	88	89																	-			
✓	29	2013	NAVY	4,000	2,331	1,669	333	334	334	334	334																	-			
	29	2014	NAVY	1,843	919	924	154	154	154	154	154	154																-			
✓	29	2014	NAVY	4,800	2,400	2,400	400	400	400	400	400	400																-			
✓	29	2015	NAVY	1,694	282	1,412	141	141	141	141	141	141	141	141	141	142	142											-			
	29	2016	NAVY	1,716	-	1,716	-	-	-	-	-	-	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	-			
✓	29	2016	NAVY	2,818	-	2,818	-	-	-	-	-	-	234	234	235	235	235	235	235	235	235	235	235	235	235	235	235	-			
	29	2017	NAVY	741	-	741																						-			
✓	29	2017	NAVY	2,060	-	2,060																						-			
																													310		
																													858		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1 **P-1 Line Item Number / Title:** 0400 / Ammunition less than \$5 million **Aggregated Items:** Ammunition less than \$5 million

Items <i>(Units in Each)</i>					Fiscal Year 2019												Fiscal Year 2020												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
1) HARDWARE																															
1.1) (A5010) MK-58 MARINE LOCATION MARKERS																															
Prior Years Deliveries: 18137																															
	28	2013	NAVY	5,267 ⁽⁴⁾	5,267	-																							-		
	28	2014	NAVY	5,729 ⁽⁵⁾	5,729	-																							-		
	28	2015	NAVY	5,392	5,392	-																							-		
	28	2016	NAVY	5,631	5,631	-																							-		
	28	2017	NAVY	5,635	3,285	2,350	470	470	470	470	470																		-		
1.2) (A5011) LUU-19 PARAFIARES ⁽¹⁾																															
Prior Years Deliveries: 4720																															
	29	2013	NAVY	1,057	1,057	-																							-		
✓	29	2013	NAVY	4,000	4,000	-																							-		
	29	2014	NAVY	1,843	1,843	-																							-		
✓	29	2014	NAVY	4,800	4,800	-																							-		
✓	29	2015	NAVY	1,694	1,694	-																							-		
	29	2016	NAVY	1,716	1,716	-																							-		
✓	29	2016	NAVY	2,818	2,818	-																							-		
	29	2017	NAVY	741	431	310	62	62	62	62	62																		-		
✓	29	2017	NAVY	2,060	1,202	858	171	171	172	172	172																		-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0400 / Ammunition less than \$5 million	Aggregated Items: Ammunition less than \$5 million
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	HFI PYROTECHNICS INC - Ontario, Canada	3,000	4,000	15,000	-	-	-	-	-	6	12	18
2	ATK Launch Systems Inc. - Brigham, UTAH	750	3,000	15,000	-	-	-	-	-	6	12	18

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

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

Footnotes:

⁽⁴⁾ Delay in deliveries as a result of First Article Test (FAT) failure. FAT was completed April 2015 and deliveries will begin March 2016.

⁽⁵⁾ Delay in deliveries as a result of First Article Test (FAT) failure. FAT was completed April 2015 and deliveries will begin May 2016.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1000 / Small Arms Ammunition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	302.819	41.083	24.575	27.958	1.205	29.163	55.710	37.746	44.121	43.699	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	302.819	41.083	24.575	27.958	1.205	29.163	55.710	37.746	44.121	43.699	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	302.819	41.083	24.575	27.958	1.205	29.163	55.710	37.746	44.121	43.699	Continuing	Continuing

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

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

Description:

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

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

P-1 Line Item Number / Title:
1000 / Small Arms Ammunition

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Small Arms Ammunition	P-5a, P-21		- / 302.819	- / 41.083	- / 24.575	- / 27.958	- / 1.205	- / 29.163
P-40	Total Gross/Weapon System Cost			- / 302.819	- / 41.083	- / 24.575	- / 27.958	- / 1.205	- / 29.163

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
FY 2017 baseline funding is required to replenish munitions projected to be expended by Marine forces during training, preparation and rehearsals for combat engagements. The FY 2017 increase in funding addresses a capability gap for a .50 caliber reduced range ammunition to address operational requirements in an urban environment and the ability to train on ranges where 7.62mm ammunition can be live-fired.

OCO:
FY 2017 OCO funding will be used to reset munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3) A059, CTG, 5.56MM BALL																				
3.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) (1)(t)	A		-	-	76.047	0.55	29,495,300	16.244	0.56	28,500,000	15.918	0.25	42,242,260	10.561	0.25	4,606,797	1.133	0.25	46,849,057	11.694
3.2) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (2) (2)(t)	A		0.32	7,372,389	2.359	-	-	-	-	-	-	0.24	4,693,574	1.126	-	-	-	0.24	4,693,574	1.126
3.3) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (1)	A		8.88	541,991	4.813	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.4) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2)(t)	A		9.00	2,000	0.018	-	-	-	-	-	-	13.06	56,323	0.736	13.06	5,528	0.072	13.06	61,851	0.808
3.5) A059, 5.56MM BALL, PRODUCTION ENGINEERING			-	-	1.840	-	-	0.275	-	-	0.340	-	-	1.276	-	-	-	-	-	1.276
3.6) A059, 5.56MM BALL, QUALITY ASSURANCE			-	-	0.050	-	-	-	-	-	-	-	-	0.016	-	-	-	-	-	0.016
3.7) A059, 5.56MM BALL, ACCEPTANCE TESTING			-	-	0.097	-	-	-	-	-	-	-	-	0.042	-	-	-	-	-	0.042
Subtotal: 3) A059, CTG, 5.56MM BALL			-	-	85.224	-	-	16.519	-	-	16.258	-	-	13.757	-	-	1.205	-	-	14.962
4) A064, CTG, 5.56MM 4 & 1 LINKED																				
4.1) A064, 5.56MM 4 & 1 LINKED, COMPLETE ROUND(t)	A		0.33	96,647,844	31.697	0.47	1,451,768	0.675	-	-	-	-	-	-	-	-	-	-	-	-
4.2) A064, 5.56MM 4 & 1 LINKED, PRODUCTION ENGINEERING			-	-	0.874	-	-	0.322	-	-	-	-	-	-	-	-	-	-	-	-
4.3) A064, 5.56MM 4 & 1 LINKED, QUALITY ASSURANCE			-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) A064, 5.56MM 4 & 1 LINKED, ACCEPTANCE TESTING			-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) A064, CTG, 5.56MM 4 & 1 LINKED			-	-	32.608	-	-	0.997	-	-	-	-	-	-	-	-	-	-	-	-
5) A075, CTG, 5.56MM BLANK LINKED																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.1) A075, 5.56MM BLANK LINKED, COMPLETE ROUND ^(†)	A		0.36	11,068,043	4.022	0.19	5,100,070	0.971	-	-	-	-	-	-	-	-	-	-	-	
5.2) A075, 5.56MM BLANK LINKED, PRODUCTION ENGINEERING			-	-	0.041	-	-	0.026	-	-	-	-	-	-	-	-	-	-	-	
5.3) A075, 5.56MM BLANK LINKED, PRODUCTION VERIFICATION TEST			-	-	0.412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 5) A075, CTG, 5.56MM BLANK LINKED			-	-	4.475	-	-	0.997	-	-	-	-	-	-	-	-	-	-	-	
6) A080, CTG, 5.56MM BLANK																				
6.1) A080, 5.56MM BLANK, LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		-	-	8.127	0.12	7,056,620	0.855	-	-	-	-	-	-	-	-	-	-	-	
6.2) A080, 5.56MM BLANK, BOX METAL M2A1 (EA) (1) ^(†)	A		-	-	0.390	10.38	6,280	0.065	-	-	-	-	-	-	-	-	-	-	-	
6.3) A080, 5.56MM BLANK, PRODUCTION ENGINEERING			-	-	0.166	-	-	0.072	-	-	-	-	-	-	-	-	-	-	-	
6.4) A080, 5.56MM BLANK, QUALITY ASSURANCE			-	-	0.001	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	
6.5) A080, 5.56MM BLANK, ACCEPTANCE TESTING			-	-	0.007	-	-	0.004	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 6) A080, CTG, 5.56MM BLANK			-	-	8.691	-	-	0.997	-	-	-	-	-	-	-	-	-	-	-	
7) A131, CTG, 7.62MM 4 & 1 LINKED																				
7.1) A131, 7.62MM 4 & 1 LINKED, COMPLETE ROUND ^(†)	A		-	-	30.790	0.48	24,259,671	11.683	-	-	-	-	-	-	-	-	-	-	-	
7.2) A131, 7.62MM 4 & 1 LINKED, PRODUCTION ENGINEERING			-	-	1.100	-	-	0.093	-	-	-	-	-	-	-	-	-	-	-	
7.3) A131, 7.62MM 4 & 1			-	-	0.019	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
LINKED, QUALITY ASSURANCE																				
7.4) A131, 7.62MM 4 & 1 LINKED, ACCEPTANCE TESTING			-	-	0.221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 7) A131, CTG, 7.62MM 4 & 1 LINKED			-	-	32.130	-	-	11.778	-	-	-	-	-	-	-	-	-	-	-	-
8) A143, CTG, 7.62MM BALL LINKED																				
8.1) A143, 7.62MM BALL LINKED, COMPLETE ROUND ^(†)	A		0.52	31,106,961	16.040	-	-	-	0.53	1,819,022	0.958	-	-	-	-	-	-	-	-	-
8.2) A143, 7.62MM BALL LINKED, PRODUCTION ENGINEERING			-	-	0.305	-	-	-	-	-	0.041	-	-	-	-	-	-	-	-	-
8.3) A143, 7.62MM BALL LINKED, ACCEPTANCE TESTING			-	-	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.4) A143, 7.62MM BALL LINKED, QUALITY ASSURANCE	A		-	-	0.002	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
Subtotal: 8) A143, CTG, 7.62MM BALL LINKED			-	-	16.363	-	-	-	-	-	1.000	-	-	-	-	-	-	-	-	-
9) A363, CTG, 9MM BALL																				
9.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		0.16	71,228,377	11.111	0.14	9,047,321	1.249	0.17	1,454,801	0.243	0.16	1,424,782	0.228	-	-	-	0.16	1,424,782	0.228
9.2) A363, 9MM BALL, BOX METAL M2A2 (EA) (1) ^(†)	A		9.50	35,037	0.333	10.38	9,138	0.095	12.49	1,469	0.018	13.06	1,439	0.019	-	-	-	13.06	1,439	0.019
9.3) A363, 9MM BALL, BOX METAL M2A2	A		-	-	0.383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.4) A363, 9MM BALL, PRODUCTION ENGINEERING			-	-	0.488	-	-	0.155	-	-	0.026	-	-	0.039	-	-	-	-	-	0.039
9.5) A363, 9MM BALL, QUALITY ASSURANCE			-	-	0.007	-	-	0.001	-	-	-	-	-	0.001	-	-	-	-	-	0.001
9.6) A363, 9MM BALL, ACCEPTANCE TESTING	A		-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy																Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1000 / Small Arms Ammunition						Aggregated Items Title: Small Arms Ammunition								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
9.7) A363, 9MM BALL, PRODUCTION QUALIFICATION TEST	A		-	-	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	
Subtotal: 9) A363, CTG, 9MM BALL			-	-	12.342	-	-	1.500	-	-	0.288	-	-	0.287	-	-	-	-	0.287	
10) A483, CTG CAL .45 MATCH GRADE																				
10.1) A483, CAL .45 MATCH GRADE, LOAD, ASSEMBLE AND PACK (LAP) ^(†)	A		-	-	0.223	-	-	-	0.32	358,233	0.114	-	-	-	-	-	-	-	-	
10.2) A483, CAL .45 MATCH GRADE, BOX METAL M2A2 ^(†)	A		-	-	0.009	-	-	-	12.49	362	0.005	-	-	-	-	-	-	-	-	
10.3) A483, CAL .45 MATCH GRADE, PRODUCTION ENGINEERING			-	-	0.002	-	-	-	-	-	0.007	-	-	-	-	-	-	-	-	
10.4) A483, CAL .45 MATCH GRADE, QUALITY ASSURANCE			-	-	0.001	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	
Subtotal: 10) A483, CTG CAL .45 MATCH GRADE			-	-	0.235	-	-	-	-	-	0.128	-	-	-	-	-	-	-	-	
11) A552, CTG, CAL .50 GRADE AC BALL																				
11.1) A552, CAL .50 GRADE AC BALL, LOAD, ASSEMBLE AND PACK (LAP) ^{(3)(†)}	A		-	-	2.223	1.67	306,618	0.512	1.88	765,888	1.440	-	-	-	-	-	-	-	-	
11.2) A552, CAL .50 GRADE AC BALL, BOX METAL M2A2 ^(†)	A		-	-	0.121	10.38	2,576	0.027	-	-	-	-	-	-	-	-	-	-	-	
11.3) A552, CAL .50 GRADE AC BALL, , PRODUCTION ENGINEERING			-	-	0.012	-	-	0.037	-	-	0.222	-	-	-	-	-	-	-	-	
Subtotal: 11) A552, CTG, CAL .50 GRADE AC BALL			-	-	2.356	-	-	0.576	-	-	1.662	-	-	-	-	-	-	-	-	
13) A576, CTG, CAL .50 4 & 1 LINKED																				
13.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP) ^(†)	A		-	-	69.273	1.77	3,638,997	6.443	1.99	2,197,548	4.380	1.98	134,416	0.266	-	-	-	1.98	134,416	0.266
13.2) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A1 (1)	A		-	-	2.325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
13.3) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2 ^(f)	A		-	-	0.706	10.38	37,118	0.385	12.49	22,415	0.279	13.06	1,371	0.018	-	-	-	13.06	1,371	0.018
13.4) A576, CAL. 50 4 & 1 LINKED, PRODUCTION ENGINEERING			-	-	1.478	-	-	0.471	-	-	0.233	-	-	0.011	-	-	-	-	-	0.011
13.5) A576, CAL. 50 4 & 1 LINKED, QUALITY ASSURANCE			-	-	0.022	-	-	0.003	-	-	0.002	-	-	-	-	-	-	-	-	-
13.6) A576, CAL. 50 4 & 1 LINKED, ACCEPTANCE TESTING			-	-	1.041	-	-	0.014	-	-	0.013	-	-	0.003	-	-	-	-	-	0.003
Subtotal: 13) A576, CTG, CAL. 50 4 & 1 LINKED			-	-	74.845	-	-	7.316	-	-	4.907	-	-	0.298	-	-	-	-	-	0.298
17) AA40, CTG, 5.56MM FRANGIBLE SNGL RD																				
17.2) AA40, 5.56MM FRANGIBLE, PRODUCTION ENGINEERING	A		-	-	-	-	-	0.254	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 17) AA40, CTG, 5.56MM FRANGIBLE SNGL RD			-	-	0.000	-	-	0.254	-	-	-	-	-	-	-	-	-	-	-	-
18) AA53, CTG, 5.56MM SPECIAL BALL LONG RANGE (77GR)																				
18.1) AA53, 5.56MM SPECIAL BALL, COMPLETE ROUND ^(f)	A		-	-	-	-	-	-	-	-	-	0.76	327,631	0.249	-	-	-	0.76	327,631	0.249
Subtotal: 18) AA53, CTG, 5.56MM SPECIAL BALL LONG RANGE (77GR)			-	-	0.000	-	-	-	-	-	-	-	-	0.249	-	-	-	-	-	0.249
19) AA67, CTG, 5.56MM MOLY COATED (77GR)																				
19.1) AA67, 5.56MM MOLY COATED, COMPLETE ROUND ^(f)	A		-	-	-	-	-	-	0.65	392,308	0.255	-	-	-	-	-	-	-	-	-
Subtotal: 19) AA67, CTG, 5.56MM MOLY COATED (77GR)			-	-	0.000	-	-	-	-	-	0.255	-	-	-	-	-	-	-	-	-
22) AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE)																				
22.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND ^(f)	A		-	-	-	-	-	-	-	-	-	0.63	6,012,698	3.788	-	-	-	0.63	6,012,698	3.788

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: 22) AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE)			-	-	0.000	-	-	-	-	-	-	-	-	3.788	-	-	-	-	-	3.788
23) AB06, CTG, 5.56MM SESAMS SINGLE RND (RED)																				
23.1) AB06, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND ^(†)	A		-	-	-	-	-	-	-	-	-	0.65	4,126,153	2.682	-	-	-	0.65	4,126,153	2.682
Subtotal: 23) AB06, CTG, 5.56MM SESAMS SINGLE RND (RED)			-	-	0.000	-	-	-	-	-	-	-	-	2.682	-	-	-	-	-	2.682
25) AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED																				
25.1) AB64, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND ^(†)	A		-	-	7.305	-	-	-	-	-	-	4.52	905,309	4.092	-	-	-	4.52	905,309	4.092
Subtotal: 25) AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED			-	-	7.305	-	-	-	-	-	-	-	-	4.092	-	-	-	-	-	4.092
26) AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED																				
26.1) AB65, CAL .50 BALL REDUCED RANGE LINKED, COMPLETE ROUND ^(†)	A		-	-	-	-	-	-	-	-	-	4.15	657,349	2.728	-	-	-	4.15	657,349	2.728
Subtotal: 26) AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED			-	-	0.000	-	-	-	-	-	-	-	-	2.728	-	-	-	-	-	2.728
28) AXX3, CTG, 9MM BLANK SINGLE ROUND																				
28.1) AXX3, 9MM BLANK, COMPLETE ROUND ^(†)	A		2.63	131,938	0.347	2.63	56,523	0.149	2.63	29,278	0.077	2.73	28,205	0.077	-	-	-	2.73	28,205	0.077
Subtotal: 28) AXX3, CTG, 9MM BLANK SINGLE ROUND			-	-	0.347	-	-	0.149	-	-	0.077	-	-	0.077	-	-	-	-	-	0.077
29) PRIOR YEARS CUMULATIVE FUNDING																				
29.1) PRIOR YEARS CUMULATIVE FUNDING	A		-	-	25.898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 29) PRIOR YEARS CUMULATIVE FUNDING			-	-	25.898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	302.819	-	-	41.083	-	-	24.575	-	-	27.958	-	-	1.205	-	-	29.163

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

(†) indicates the presence of a P-5a

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy		Date: February 2016
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

Footnotes:

(1) Increased unit cost in FY 2015 and FY 2016 represent procurement of increased capability SOST (Special Operations Science and Technology), CTG, 5.56mm Ball MK 318 Mod 1 ammunition. Decreased unit cost in FY 2017 represents procurement of the legacy 5.56 Ball ammunition, the basic M855 round, to support the USMC 100 million round annual expenditure/training requirement. Marine Corps determined that the M855 Ball Cartridge no longer met all the requirements for this round and identified and confirmed the replacement requirement for the MK 318 MOD1 SOST (Special Operations Science and Technology) round to address crucial capability gaps. The MK 318 round provides greater capability including: more consistent accuracy for short barrel carbines (M4); more capable of defeating intermediate barriers, such as auto glass/doors and engagement of the target; the round has a more temperature stable flash reduced propellant; and the MK 318 round is not "yaw" dependent, because bullets wobble in flight, the bullet angle upon impact to target determines the tumble/yaw as it passes through the target.

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

(3) The Caliber .50 Grade AC Ball FY 2016 funds will be used to procure a ballistically match, non-energetic and non-dud-producing round to offset training with the MK211 anti-material cartridge that consists of an armor-piercing (tungsten core), with an explosive and an incendiary component projectile that causes duds/unexploded ordnance (UXO) on the small arms ranges impact area when the explosive element does not initiate.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1000 / Small Arms Ammunition				Aggregated Items: Small Arms Ammunition				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3) A059, CTG, 5.56MM BALL												
3.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) (1)(f)		2015	FEDERAL CARTRIDGE. / ANOKA, MINNESOTA	C / FFP	NSWC CD, CRANE, IN	Aug 2015	May 2016	23,843,860	0.55	Y		
3.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) (1)(f)	✓	2015	FEDERAL CARTRIDGE. / ANOKA, MINNESOTA	C / FFP	NSWC CD, CRANE, IN	Aug 2015	May 2016	5,651,440	0.55	Y		
3.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) (1)(f)		2016 ⁽⁴⁾	FEDERAL CARTRIDGE. / ANOKA, MINNESOTA	C / FFP	NSWC CD, CRANE, IN	Jun 2016	Mar 2017	28,500,000	0.56	Y		
3.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) (1)(f)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2017	Sep 2017	42,242,260	0.25	Y		
3.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) (1)(f)	✓	2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2017	Sep 2017	4,606,797	0.25	Y		
3.2) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (2) (2)(f)		2017	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	Rock Island Arsenal, IL	Mar 2017	Sep 2017	4,693,574	0.24	Y		
3.4) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2)		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2017	Jul 2017	56,323	13.06	Y		
3.4) A059, 5.56MM BALL, BOX METAL M2A2 (EA) (2)	✓	2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2017	Jul 2017	5,528	13.06	Y		
4) A064, CTG, 5.56MM 4 & 1 LINKED												
4.1) A064, 5.56MM 4 & 1 LINKED, COMPLETE ROUND		2015	OLIN WINCHESTER / EAST ALTON, IL	C / FFP	Rock Island Arsenal, IL	Mar 2015	May 2015	1,451,768	0.47	Y		
5) A075, CTG, 5.56MM BLANK LINKED												
5.1) A075, 5.56MM BLANK LINKED, COMPLETE ROUND		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Apr 2016	5,100,070	0.19	Y		
6) A080, CTG, 5.56MM BLANK												
6.1) A080, 5.56MM BLANK, LOAD, ASSEMBLE AND PACK (LAP)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Jun 2016	7,056,620	0.12	Y		
6.2) A080, 5.56MM BLANK, BOX METAL M2A1 (EA) (1)		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	6,280	10.38	Y		
7) A131, CTG, 7.62MM 4 & 1 LINKED												
7.1) A131, 7.62MM 4 & 1 LINKED, COMPLETE ROUND		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2015	Apr 2016	24,259,671	0.48	Y		
8) A143, CTG, 7.62MM BALL LINKED												

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Aggregated Items:				
1508N / 02 / 1			1000 / Small Arms Ammunition					Small Arms Ammunition				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
8.1) A143, 7.62MM BALL LINKED, COMPLETE ROUND		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2016	Oct 2016	1,819,022	0.53	Y		
9) A363, CTG, 9MM BALL												
9.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP)		2015	OLIN CORPORATION / ILLINOIS	C / FFP	Rock Island Arsenal, IL	Mar 2015	Dec 2015	9,047,321	0.14	Y		
9.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP)		2016	UNKNOWN / UNKNOWN	C / FFP	Rock Island Arsenal, IL	Mar 2016	Oct 2016	1,454,801	0.17	Y		
9.1) A363, 9MM BALL, LOAD, ASSEMBLE AND PACK (LAP)		2017	UNKNOWN / UNKNOWN	C / FFP	Rock Island Arsenal, IL	Mar 2017	Oct 2017	1,424,782	0.16	Y		
9.2) A363, 9MM BALL, BOX METAL M2A2 (EA) (1)		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Jul 2015	9,138	10.38	Y		
9.2) A363, 9MM BALL, BOX METAL M2A2 (EA) (1)		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2016	Jul 2016	1,469	12.49	Y		
9.2) A363, 9MM BALL, BOX METAL M2A2 (EA) (1)		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2017	Jul 2017	1,439	13.06	Y		
10) A483, CTG CAL .45 MATCH GRADE												
10.1) A483, CAL .45 MATCH GRADE, LOAD, ASSEMBLE AND PACK (LAP)		2016	UNKNOWN / UNKNOWN	C / FFP	Rock Island Arsenal, IL	Mar 2016	May 2016	358,233	0.32	Y		
10.2) A483, CAL .45 MATCH GRADE, BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Mar 2016	May 2016	362	12.49	Y		
11) A552, CTG, CAL .50 GRADE AC BALL												
11.1) A552, CAL .50 GRADE AC BALL, LOAD, ASSEMBLE AND PACK (LAP) (3)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2015	Apr 2016	306,618	1.67	Y		
11.1) A552, CAL .50 GRADE AC BALL, LOAD, ASSEMBLE AND PACK (LAP) (3)		2016	UNKNOWN / UNKNOWN	C / FFP	NSWC CD, CRANE, IN	Jun 2016	Nov 2016	765,888	1.88	Y		
11.2) A552, CAL .50 GRADE AC BALL, BOX METAL M2A2		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2015	Aug 2015	2,576	10.38	Y		
13) A576, CTG, CAL .50 4 & 1 LINKED												
13.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)		2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2015	Apr 2016	249,900	1.77	Y		
13.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)	✓	2015	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Jun 2015	Apr 2016	3,389,097	1.77	Y		
13.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)		2016	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2016	Oct 2016	2,197,548	1.99	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1000 / Small Arms Ammunition					Aggregated Items: Small Arms Ammunition				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
13.1) A576, CAL. 50 4 & 1 LINKED, LOAD, ASSEMBLE, AND PACK (LAP)		2017	ALLIANT TECH DBA (LCAAP) / INDEPENDENCE, MO	C / FFP	Rock Island Arsenal, IL	Mar 2017	Oct 2017	134,416	1.98	Y		
13.3) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Jun 2015	Aug 2015	2,549	10.38	Y		
13.3) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2	✓	2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	Jun 2015	Aug 2015	34,569	10.38	Y		
13.3) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2016	Jul 2016	22,415	12.49	Y		
13.3) A576, CAL. 50 4 & 1 LINKED, BOX METAL M2A2		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	Rock Island Arsenal, IL	May 2017	Jul 2017	1,371	13.06	Y		
18) AA53, CTG, 5.56MM SPECIAL BALL LONG RANGE (77GR)												
18.1) AA53, 5.56MM SPECIAL BALL, COMPLETE ROUND		2017	BLACK HILLS AMMUNITION / RAPID CITY, SD	C / FFP	NSWC CD, CRANE, IN	Oct 2016	May 2017	327,631	0.76	Y		
19) AA67, CTG, 5.56MM MOLY COATED (77GR)												
19.1) AA67, 5.56MM MOLY COATED, COMPLETE ROUND		2016	BLACK HILLS AMMUNITION / RAPID CITY, SD	C / FFP	NSWC CD, CRANE, IN	Mar 2016	Oct 2016	392,308	0.65	Y		
22) AB05, CTG, 5.56MM SESAMS SINGLE RND (BLUE)												
22.1) AB05, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND		2017	UNKNOWN / UNKNOWN	C / FFP	MCSC, QUANTICO, VA	Mar 2017	Jun 2017	6,012,698	0.63	Y		
23) AB06, CTG, 5.56MM SESAMS SINGLE RND (RED)												
23.1) AB06, 5.56MM SESAMS SINGLE RND (BLUE), COMPLETE ROUND		2017	UNKNOWN / UNKNOWN	C / FFP	MCSC, QUANTICO, VA	Mar 2017	Jun 2017	4,126,153	0.65	Y		
25) AB64, CTG, CAL .50 4 & 1 REDUCED RANGE LINKED												
25.1) AB64, CAL .50 4 & 1 REDUCED RANGE LINKED, COMPLETE ROUND		2017	UNKNOWN / UNKNOWN	C / TBD	NSWC CD, CRANE, IN	Mar 2017	Jun 2017	905,309	4.52	Y		
26) AB65, CTG, CAL .50 BALL REDUCED RANGE LINKED												
26.1) AB65, CAL .50 BALL REDUCED RANGE LINKED, COMPLETE ROUND		2017	UNKNOWN / UNKNOWN	C / TBD	NSWC CD, CRANE, IN	Mar 2017	Jun 2017	657,349	4.15	Y		
28) AXX3, CTG, 9MM BLANK SINGLE ROUND												
28.1) AXX3, 9MM BLANK, COMPLETE ROUND		2014 ⁽⁵⁾	UNKNOWN / UNKNOWN	SS / FFP	MCSC, QUANTICO, VA	Aug 2016	Feb 2017	131,938	2.63	Y		
28.1) AXX3, 9MM BLANK, COMPLETE ROUND		2015	UNKNOWN / UNKNOWN	SS / FFP	MCSC, QUANTICO, VA	Aug 2016	Feb 2017	56,523	2.63	Y		
28.1) AXX3, 9MM BLANK, COMPLETE ROUND		2016	UNKNOWN / UNKNOWN	SS / FFP	MCSC, QUANTICO, VA	Aug 2016	Feb 2017	29,278	2.63	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1000 / Small Arms Ammunition	Aggregated Items: Small Arms Ammunition
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
28.1) AXX3, 9MM BLANK, COMPLETE ROUND		2017	UNKNOWN / UNKNOWN	SS / FFP	MCSC, QUANTICO, VA	Mar 2017	Sep 2017	28,205	2.73	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽⁴⁾ Due to a change in the contract strategy the award date changed from Mar 2016 to Jun 2016. A new contract is required for follow-on procurement of the MK 318 Mod 1.

⁽⁵⁾ The AXX3 Complete Round contract delay was caused by the additional time required to put together sole source contract documentation. The FY 2014, FY 2015 and FY 2016 contracts will award together and are on track to award in Aug 2016.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

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

Items <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2015												Fiscal Year 2016												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 4	BAL D U E A S O F 1 O C T	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
3) A059, CTG, 5.56MM BALL																															
3.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) ⁽¹⁾																															
	31	2015	NAVY	23.844	-	23.844																									
✓	31	2015	NAVY	5.651	-	5.651																									
	31	2016	NAVY	28.500	-	28.500																									
	30	2017	NAVY	42.242	-	42.242																									
✓	30	2017	NAVY	4.607	-	4.607																									
3.2) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (2) ⁽²⁾																															
Prior Years Deliveries: 7372389																															
	32	2017	NAVY	4.694	-	4.694																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

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

Items <i>(Units in Millions, * = < 500)</i>					Fiscal Year 2017													Fiscal Year 2018													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T O 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
3) A059, CTG, 5.56MM BALL																																	
3.1) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (1) ⁽¹⁾																																	
	31	2015	NAVY	23.844	10.000	13.844	2.000	2.000	2.000	2.000	2.000	2.000	1.844															-					
✓	31	2015	NAVY	5.651	5.651	-															-												
	31	2016	NAVY	28.500	-	28.500	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	3.000	3.000	3.000	3.000	2.500							-				
	30	2017	NAVY	42.242	-	42.242						A -	-	-	-	-	-	3.520	3.520	3.520	3.520	3.520	3.520	3.520	3.520	3.520	3.520	3.520	-				
✓	30	2017	NAVY	4.607	-	4.607						A -	-	-	-	-	-	4.607												-			
3.2) A059, 5.56MM BALL, LOAD, ASSEMBLE AND PACK (LAP) (2) ⁽²⁾																																	
Prior Years Deliveries: 7372389																																	
	32	2017	NAVY	4.694	-	4.694						A -	-	-	-	-	-	.391	.391	.391	.391	.391	.391	.391	.391	.391	.391	.391	-				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1000 / Small Arms Ammunition	Aggregated Items: Small Arms Ammunition
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	ALLIANT TECH DBA (LCAAP) - INDEPENDENCE, MO	3,360,000	38,800,000	350,000,000	6	6	12	18	6	6	6	12
2	FEDERAL CARTRIDGE. - ANOKA, MINNESOTA	1,000,000	10,000,000	100,000,000	6	6	12	18	6	6	9	15
3	TO BE SELECTED - ROCK ISLAND ARSENAL, IL	1,680	1,940,000	67,500,000	6	6	7	13	6	6	7	13

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1030 / Linear Charges, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	118.665	9.535	-	-	-	-	20.010	24.610	33.183	33.846	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	118.665	9.535	-	-	-	-	20.010	24.610	33.183	33.846	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	118.665	9.535	-	-	-	-	20.010	24.610	33.183	33.846	Continuing	Continuing

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

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

Description:

The Linear Charge Family consists of demolition systems capable of defeating the enemy's counter mobility efforts. The Mine Clearing Linear Charge (MCLIC) provides a clear path, up to 15 yards wide by 109 yards long, for combat vehicles during minefield and barrier-breaching operations. They are effective against single-impulse, pressure-type, non-blast-hardened anti-tank mines and mechanically actuated anti-personnel mines. The Mk22, a 5-inch rocket motor, is used to propel the MCLIC over the minefield. The Anti-Personnel Obstacle Breaching System (APOBS) provides the Marine Corps with an improved, lightweight, man-portable capability to quickly breach anti-personnel minefields and wire obstacles. The APOBS requires less than two minutes to set up and deploy and is launched from a standoff of about 35 yards in front of the leading edge of the obstacle or minefield. The system is designed to clear a footpath through anti-personnel minefields and wire obstacles up to 45 yards long and 2 yards wide during combat operations. The APOBS is a self-contained, one-shot expendable system that is transported in two backpacks, each weighing approximately 60 pounds, and deployed by a two-man team. APOBS uses the Mk126 Mod 1 rocket motor to propel a line charge over the obstacle, after which the line charge will detonate following an eight-second delay, clearing the obstacle or anti-personnel minefield.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1030 / Linear Charges, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Linear Charges, All Types	P-5a		- / 118.665	- / 9.535	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 118.665	- / 9.535	- / -	- / -	- / -	- / -

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

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

Justification:
 In FY 2017 the Baseline request has no funding required while the Single Manager for Conventional Ammunition (SMCA) to update the Technical Data Package (TDP) in preparation for future procurements on a new contract beginning in FY 2018.

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1030 / Linear Charges, All Types	Item Number / Title [DODIC]: 1 / Linear Charges, All Types

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	118.665	9.535	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	118.665	9.535	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	118.665	9.535	-	-	-	-

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - M913 CHG DEMO LINEAR M58 SERIES A4 Cost																		
Recurring Cost																		
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP) ^(†) (1)	-	-	16.095	27,150.68	123	3.340	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) M913 COMP C-4 CLASS 3 ^(†)	16.37	1,348,096	22.064	22.34	227,779	5.089	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) M913 FUZE ELECTRIC M113A4	-	-	0.872	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) M913 FUZE ELECTRIC M113A4 GFM ^(†)	2,541.67	240	0.610	2,939.40	123	0.362	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) M913 RODUCTION SUPPORT	-	-	1.485	-	-	0.744	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	41.126	-	-	9.535	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - M913 CHG DEMO LINEAR M58 SERIES A4 Cost</i>	-	-	41.126	-	-	9.535	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - MN79 ANTI-PERS OBSTACLE BREACHING SYSTEM Cost																		
Recurring Cost																		
2.1.1) MN79 COMPLETE ROUND ^(†)	10,208.61	7,430	75.850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1030 / Linear Charges, All Types						Item Number / Title [DODIC]: 1 / Linear Charges, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1.2) MN79 PRODUCTION SUPPORT	-	-	0.489	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	76.339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - MN79 ANTI-PERS OBSTACLE BREACHING SYSTEM Cost</i>	-	-	76.339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
3.1.1) PRIOR YEAR CUMULATIVE FUNDING	-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost</i>	-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	118.665	-	-	9.535	-	-	-	-	-	-	-	-	-	-	-	-

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

Footnotes:

(1) There was a FY16 congressional reduction to M913 for Excess Production Support.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1030 / Linear Charges, All Types	Item Number / Title [DODIC]: 1 / Linear Charges, All Types
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) M913 LOAD, ASSEMBLE, PACK (LAP)	✓	2015	TO BE SELECTED / UNKNOWN	C / FFP	ROCK ISLAND ARSENAL	Feb 2016	May 2017	123	27,150.68	Y		
1.1.2) M913 COMP C-4 CLASS 3	✓	2015	BAE ORDNANCE SYSTEMS / KINDSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL	Jan 2015	Feb 2016	227,779	22.34	Y		
1.1.4) M913 FUZE ELECTRIC M113A4 GFM	✓	2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	ROCK ISLAND ARSENAL	Feb 2016	Mar 2017	123	2,939.40	Y		
2.1.1) MN79 COMPLETE ROUND		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND ARSENAL	Aug 2015	Aug 2019	292	17,454.54	Y		
2.1.1) MN79 COMPLETE ROUND	✓	2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND ARSENAL	Aug 2015	Aug 2019	189	17,454.54	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

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

Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	346.943	14.063	-	14.758	0.539	15.297	17.600	9.796	16.310	16.634	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	346.943	14.063	-	14.758	0.539	15.297	17.600	9.796	16.310	16.634	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	346.943	14.063	-	14.758	0.539	15.297	17.600	9.796	16.310	16.634	Continuing	Continuing

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

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

Description:

The family of 40mm cartridges consists of low velocity single rounds designed to be fired from the M203 and M32 grenade launchers, as well as high velocity linked rounds designed to be fired from the MK19, 40mm grenade machine gun. Cartridges fired from the M203 and M32 grenade launchers include signaling and marking rounds, a CS (o-chlorobenzamalono-nitrile) round, training and practice Day/ Night marker rounds, and a light Armor Piercing and Anti-Personnel Dual Purpose (HEDP) rounds. Cartridges fired from the MK19 include light Armor Piercing and HEDP rounds and a Day/ Night marker, target practice training round.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

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

P-1 Line Item Number / Title:
1050 / 40 MM, All Types

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / 40 MM, All Types	P-5a, P-21		- / 346.943	- / 14.063	- / -	- / 14.758	- / 0.539	- / 15.297
P-40	Total Gross/Weapon System Cost			- / 346.943	- / 14.063	- / -	- / 14.758	- / 0.539	- / 15.297

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

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

Justification:

FY 2017 baseline funding will procure the 40mm Target Practice linked cartridge, Day/Night Marker, MK281 MOD3. These cartridges have been expended by Marine Forces during preparation, rehearsals and training engagements utilizing established tactics, techniques, and procedures. Additionally, in response to a range clearing mishap where Un-Exploded Ordnance (UXO) detonated resulting in fatalities, HQ Marine Corps mandated a reduction in the use of high explosive rounds during training. This resulted directly in the increase to the Marine Corps' FY 2017 inventory requirement and procurement of 40mm Target Practice Linked rounds.

OCO:

FY 2017 OCO funding will be used to reset munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

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Exhibit P-5, Cost Analysis: PB 2017 Navy						Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1050 / 40 MM, All Types			Item Number / Title [DODIC]: 1 / 40 MM, All Types		
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:		
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			346.943	14.063	-	14.758	0.539	15.297
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			346.943	14.063	-	14.758	0.539	15.297
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			346.943	14.063	-	14.758	0.539	15.297
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - B542-CTG, 40MM HEDP LNKD M430 Cost																		
Recurring Cost																		
1.1.1) B542, 40MM HEDP LNKD - LOAD, ASSEMBLE, AND PACK C1 ^(†) (1)	33.91	4,276,024	144.993	45.95	123,572	5.678	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) B542, 40MM HEDP LNKD - PRODUCTION ENGINEERING	-	-	3.179	-	-	1.010	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	148.172	-	-	6.688	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - B542-CTG, 40MM HEDP LNKD M430 Cost</i>	-	-	148.172	-	-	6.688	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - BA21-CTG, 40MM PRACTICE DAY/NIGHT MK281 MOD 3 Cost																		
Recurring Cost																		
2.1.1) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD 3-LOAD, ASSEMBLE, AND PACK ^(†)	30.14	1,325,874	39.959	-	-	-	-	-	-	35.50	413,183	14.668	35.50	15,183	0.539	35.50	428,366	15.207
2.1.2) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD 3 - PRODUCTION ENGINEERING	-	-	0.268	-	-	-	-	-	-	-	-	0.080	-	-	-	-	-	0.080

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1050 / 40 MM, All Types	Item Number / Title [DODIC]: 1 / 40 MM, All Types

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1.3) BA21, 40MM PRACTICE DAY/ NIGHT MK281 MOD 3 - QUALITY ASSURANCE	-	-	0.129	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
<i>Subtotal: Recurring Cost</i>	-	-	40.356	-	-	-	-	-	-	-	-	14.758	-	-	0.539	-	-	15.297
<i>Subtotal: Hardware - BA21-CTG, 40MM PRACTICE DAY/NIGHT MK281 MOD 3 Cost</i>	-	-	40.356	-	-	-	-	-	-	-	-	14.758	-	-	0.539	-	-	15.297
Hardware - BA35-CTG 40MM PRACTICE DAY/NIGHT M1110 Cost																		
Recurring Cost																		
3.1.1) BA35, 40MM PRACTICE DAY/ NIGHT M1110 - LOAD, ASSEMBLE, AND PACK ^(†)	10.25	3,409,950	34.969	10.97	647,037	7.098	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) BA35, 40MM PRACTICE DAY/ NIGHT M1110 - PRODUCTION ENGINEERING	-	-	1.050	-	-	0.201	-	-	-	-	-	-	-	-	-	-	-	-
3.1.3) BA35, 40MM PRACTICE DAY/NIGHT M1110 - QUALITY ASSURANCE	-	-	0.389	-	-	0.076	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	36.408	-	-	7.375	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - BA35-CTG 40MM PRACTICE DAY/NIGHT M1110 Cost</i>	-	-	36.408	-	-	7.375	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
4.1.1) PRIOR YEAR CUMULATIVE FUNDING	-	-	122.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	122.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - PRIOR YEAR CUMULATIVE FUNDING Cost</i>	-	-	122.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	346.943	-	-	14.063	-	-	-	-	-	14.758	-	-	0.539	-	-	15.297

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1050 / 40 MM, All Types	Item Number / Title [DODIC]: 1 / 40 MM, All Types
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>Remarks: [Hardware] There was a congressional reduction in FY15 Baseline funding to B542 for LAP Kit Cost Growth. There was a congressional reduction in FY16 Baseline funding to B542 for Excess Production Engineering.</p> <p>(t) indicates the presence of a P-5a</p> <p>Footnotes: (1) 40MM HEDP Linked - LAP contract for FY 2015 will be a part of the FY15 Systems Contract and will award in Jun 2016. Award date slipped from Sep 2015 to Jun 2016 due to cancelation of the original contract. A new procurement package leading to contract award is currently in process for award in Jun 2016.</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1050 / 40 MM, All Types	Item Number / Title [DODIC]: 1 / 40 MM, All Types
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) B542, 40MM HEDP LNKD - LOAD, ASSEMBLE, AND PACK C1 ^(†)		2015	TBD / TBD	C / FFP	ROCK ISLAND ARSENAL	Jun 2016	Dec 2018	123,572	45.95	Y		Mar 2016
2.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD 3-LOAD, ASSEMBLE, AND PACK ^(†)		2017	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / FFP	MCSC, QUANTICO, VA	Jul 2017	Jul 2018	413,183	35.50	Y		Apr 2017
2.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD 3-LOAD, ASSEMBLE, AND PACK ^(†)	✓	2017	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / FFP	MCSC, QUANTICO, VA	Jul 2017	Jul 2018	15,183	35.50	Y		Apr 2017
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - 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		Mar 2014
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK ^(†)	✓	2012	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Jun 2014	Jun 2015	398,406	10.04	Y		Mar 2014
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK ^(†)		2014	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Jun 2014	Jun 2015	615,492	10.65	Y		Mar 2014
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK ^(†)	✓	2014	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Jun 2014	Jun 2015	586,291	10.65	Y		Mar 2014
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK ^(†)	✓	2015	AMERICAN RHEINMETALL MUNITIONS / CAMDEN, AR	C / IDIQ	MCSC, QUANTICO, VA	Apr 2015	Apr 2016	647,037	10.97	Y		Mar 2015

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1050 / 40 MM, All Types **Item Number / Title [DODIC]:** 1 / 40 MM, All Types

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2014												Fiscal Year 2015												BALANCE					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
1.1.1) B542, 40MM HEDP LNKD - LOAD, ASSEMBLE, AND PACK C1 ⁽¹⁾																																			
Prior Years Deliveries: 4276024																																			
	1	2015	NAVY	.124	-	.124																									.124				
2.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD 3-LOAD, ASSEMBLE, AND PACK																																			
Prior Years Deliveries: 1325874																																			
	2	2017	NAVY	.413	-	.413																									.413				
✓	2	2017	NAVY	.015	-	.015																									.015				
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK																																			
	3	2012	NAVY	1.810	-	1.810													A	-	-	-	-	-	-	-	-	-	-	-	.151	.151	.151	.151	1.206
✓	3	2012	NAVY	.398	-	.398													A	-	-	-	-	-	-	-	-	-	-	-	.033	.033	.033	.033	.266
	3	2014	NAVY	.615	-	.615													A	-	-	-	-	-	-	-	-	-	-	-	.059	.059	.059	.059	.379
✓	3	2014	NAVY	.586	-	.586													A	-	-	-	-	-	-	-	-	-	-	-	.049	.049	.049	.049	.391
✓	3	2015	NAVY	.647	-	.647																			A	-	-	-	-	-	-	-	-	-	.647
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Navy Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 P-1 Line Item Number / Title: 1050 / 40 MM, All Types Item Number / Title [DODIC]: 1 / 40 MM, All Types

Table with columns: Cost Elements (Units in Millions, * = < 500), Fiscal Year 2016, Fiscal Year 2017, and BALANCE. Includes sub-items for B542, BA21, and BA35 with monthly production data from Oct 2015 to Sep 2017.

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1050 / 40 MM, All Types **Item Number / Title [DODIC]:** 1 / 40 MM, All Types

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2018													Fiscal Year 2019													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1.1.1) B542, 40MM HEDP LNKD - LOAD, ASSEMBLE, AND PACK C1 ⁽¹⁾																																	
Prior Years Deliveries: 4276024																																	
	1	2015	NAVY	.124	-	.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.021	.021	.021	.021	.021	.021		-					
2.1.1) BA21, 40MM PRACTICE DAY/NIGHT MK281 MOD 3-LOAD, ASSEMBLE, AND PACK																																	
Prior Years Deliveries: 1325874																																	
	2	2017	NAVY	.413	-	.413	-	-	-	-	-	-	-	-	-	.030	.035	.035	.035	.035	.035	.035	.035	.035	.035	.035	.033		-				
✓	2	2017	NAVY	.015	-	.015	-	-	-	-	-	-	-	-	-	.005	.005	.005											-				
3.1.1) BA35, 40MM PRACTICE DAY/NIGHT M1110 - LOAD, ASSEMBLE, AND PACK																																	
	3	2012	NAVY	1.810	1.810	-																							-				
✓	3	2012	NAVY	.398	.398	-																							-				
	3	2014	NAVY	.615	.615	-																							-				
✓	3	2014	NAVY	.586	.586	-																							-				
✓	3	2015	NAVY	.647	.647	-																							-				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1050 / 40 MM, All Types	Item Number / Title [DODIC]: 1 / 40 MM, All Types
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	20,000	175,000	275,000	6	6	30	36	6	6	28	34
2	AMERICAN RHEINMETALL MUNITIONS - CAMDEN, AR	50,000	200,000	450,000	6	6	12	18	6	6	12	18
3	AMERICAN RHEINMETALL MUNITIONS - CAMDEN, AR	250,000	500,000	2,000,000	6	10	12	22	6	10	12	22

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1083 / 60 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	43.201	8.731	1.849	0.992	0.909	1.901	1.830	1.839	1.875	1.912	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	43.201	8.731	1.849	0.992	0.909	1.901	1.830	1.839	1.875	1.912	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	43.201	8.731	1.849	0.992	0.909	1.901	1.830	1.839	1.875	1.912	Continuing	Continuing

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

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

Description:

The family of 60mm mortar cartridges is designed to be fired from the M224 lightweight mortar system in support of Company sized Infantry maneuvers. The family of munitions consists of high explosive, smoke, illumination, and full range training practice rounds. The 60mm family of cartridges is used to provide close-in indirect fire support of ground troops at ranges of approximately 70 to 3,500 meters.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / 60 MM, All Types	P-5a		- / 43.201	- / 8.731	- / 1.849	- / 0.992	- / 0.909	- / 1.901
P-40	Total Gross/Weapon System Cost			- / 43.201	- / 8.731	- / 1.849	- / 0.992	- / 0.909	- / 1.901

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

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

Justification:

FY 2017 funding will support baseline training munitions requirements for the lightweight mortar systems with the procurement of the 60mm Full Range Training Practice Cartridges. In response to recent Marine Corps infantry training events involving live fire, high explosive fatalities, institutional decisions were made to augment high explosive munitions training with training practice munitions. This shift in training strategy may increase training requirements and procurement of additional training practice rounds.

OCO:

FY 2017 OCO funding will be used to reset munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

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Exhibit P-5, Cost Analysis: PB 2017 Navy						Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1083 / 60 MM, All Types			Item Number / Title [DODIC]: 1 / 60 MM, All Types		
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:		
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			43.201	8.731	1.849	0.992	0.909	1.901
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			43.201	8.731	1.849	0.992	0.909	1.901
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			43.201	8.731	1.849	0.992	0.909	1.901
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - BA15 CARTRIDGE, 60MM FULL RANGE PRACTICE Cost																		
Recurring Cost																		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP) ^{(†) (1)}	17.53	47,690	0.836	16.35	54,093	0.883	18.96	11,005	0.209	17.60	5,795	0.102	17.60	5,568	0.098	17.60	11,363	0.200
1.1.2) BA15 FUZE PRACTICE M775 ^(†)	17.89	49,066	0.878	18.45	55,715	1.027	19.37	11,364	0.220	19.74	5,977	0.118	19.74	5,724	0.113	19.74	11,701	0.231
1.1.3) BA15 SHELL BODY 60MM FRPC ^(†)	34.39	49,056	1.687	35.19	55,715	1.960	38.93	11,335	0.441	39.68	5,972	0.237	39.68	5,745	0.228	39.68	11,717	0.465
1.1.4) BA15 M702 IGNITION CARTRIDGE ^(†)	13.25	46,805	0.620	13.80	55,715	0.768	16.74	11,335	0.190	17.06	5,978	0.102	17.06	5,744	0.098	17.06	11,722	0.200
1.1.5) BA15 PROPELLANT CHARGE M235 ^{(†) (2)}	8.92	196,211	1.750	9.05	222,862	2.017	10.55	45,341	0.478	12.67	23,914	0.303	12.67	22,967	0.291	12.67	46,881	0.594
1.1.6) BA15 FIN ASSEMBLY M27 ^{(†) (3)}	7.18	49,000	0.352	6.79	55,715	0.378	10.00	11,335	0.113	7.39	5,953	0.044	7.39	5,683	0.042	7.39	11,636	0.086
1.1.7) BA15 PRODUCTION ENGINEERING	-	-	1.276	-	-	0.423	-	-	0.119	-	-	0.073	-	-	0.039	-	-	0.112
1.1.8) BA15 QUALITY ASSURANCE	-	-	0.031	-	-	0.001	-	-	0.005	-	-	0.003	-	-	-	-	-	0.003
1.1.9) BA15 ACCEPTANCE TESTING	-	-	0.520	-	-	0.341	-	-	0.074	-	-	0.010	-	-	-	-	-	0.010

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1083 / 60 MM, All Types	Item Number / Title [DODIC]: 1 / 60 MM, All Types

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	7.950	-	-	7.798	-	-	1.849	-	-	0.992	-	-	0.909	-	-	1.901
<i>Subtotal: Hardware - BA15 CARTRIDGE, 60MM FULL RANGE PRACTICE Cost</i>	-	-	7.950	-	-	7.798	-	-	1.849	-	-	0.992	-	-	0.909	-	-	1.901
Hardware - BA16 CARTRIDGE, 60MM HE M720A1 WITH MOF Cost																		
Recurring Cost																		
2.1.1) BA16 LOAD, ASSEMBLE, AND PACK (LAP)	54.63	34,358	1.877	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) BA16 PROPELLANT CHARGE M235	7.64	142,977	1.093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) BA16 M702 IGNITION CARTRIDGE	17.16	35,726	0.613	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) BA16 PRODUCTION ENGINEERING	-	-	2.237	-	-	0.199	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	5.820	-	-	0.199	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - BA16 CARTRIDGE, 60MM HE M720A1 WITH MOF Cost</i>	-	-	5.820	-	-	0.199	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - B643 CTG, 60MM HE M888 Cost																		
Non Recurring Cost																		
3.1.1) B643 PRODUCTION ENGINEERING	-	-	0.377	-	-	0.734	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	0.377	-	-	0.734	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - B643 CTG, 60MM HE M888 Cost</i>	-	-	0.377	-	-	0.734	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
4.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	29.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	29.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost</i>	-	-	29.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1083 / 60 MM, All Types						Item Number / Title [DODIC]: 1 / 60 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	43.201	-	-	8.731	-	-	1.849	-	-	0.992	-	-	0.909	-	-	1.901

Remarks:

[Hardware] Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement. The data for contracts that have awarded has been updated to reflect actuals.

(†) indicates the presence of a P-5a

Footnotes:

- (1) Reduction in the LAP unit cost from FY16 to FY17 is due to a decrease in the cost of metal parts.
- (2) The Propellant unit cost increase from FY16 to FY17 is due to inflation and loss of economies of scale due to buy quantity.
- (3) Reduction in the Fin Assembly unit cost from FY16 to FY17 is due to a decrease in the cost of metal parts.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 02 / 1			1083 / 60 MM, All Types					1 / 60 MM, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2014	Jun 2016	22,761	17.53	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)	✓	2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2014	Jun 2016	24,929	17.53	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2015 (4)	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / Camden AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Feb 2017	10,516	16.35	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)	✓	2015 (5)	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / Camden AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Feb 2017	43,577	16.35	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2016 (6)	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / Camden AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Dec 2015	Dec 2017	11,005	18.96	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)		2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	5,795	17.60	Y		
1.1.1) BA15 LOAD, ASSEMBLE AND PACK (LAP)	✓	2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	5,568	17.60	Y		
1.1.2) 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		
1.1.2) BA15 FUZE PRACTICE M775	✓	2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2014	Jul 2015	25,657	17.89	Y		
1.1.2) BA15 FUZE PRACTICE M775		2015	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	10,831	18.45	Y		
1.1.2) BA15 FUZE PRACTICE M775	✓	2015	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	44,884	18.45	Y		
1.1.2) BA15 FUZE PRACTICE M775		2016	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	11,364	19.37	Y		
1.1.2) BA15 FUZE PRACTICE M775		2017	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	5,977	19.74	Y		
1.1.2) BA15 FUZE PRACTICE M775	✓	2017	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	5,724	19.74	Y		
1.1.3) 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		
1.1.3) BA15 SHELL BODY 60MM FRPC	✓	2014	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2014	Dec 2015	25,647	34.39	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC		2015	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	10,831	35.19	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC	✓	2015	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	44,884	35.19	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	11,335	38.93	Y		
1.1.3) BA15 SHELL BODY 60MM FRPC		2017	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	5,972	39.68	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1508N / 02 / 1			1083 / 60 MM, All Types					1 / 60 MM, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.3) BA15 SHELL BODY 60MM FRPC	✓	2017	TO BE SELECTED / UNKNOWN	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	5,745	39.68	Y		
1.1.4) 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		
1.1.4) BA15 M702 IGNITION CARTRIDGE	✓	2014	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	23,396	13.25	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE		2015	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	10,831	13.80	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE	✓	2015	POCAL INDUSTRIES 1 / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	44,884	13.80	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	11,335	16.74	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE		2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	5,978	17.06	Y		
1.1.4) BA15 M702 IGNITION CARTRIDGE	✓	2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	5,744	17.06	Y		
1.1.5) BA15 PROPELLANT CHARGE M235		2014	AMERICAN ORDANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2014	Jan 2016	93,635	8.92	Y		
1.1.5) BA15 PROPELLANT CHARGE M235	✓	2014	AMERICAN ORDANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2014	Jan 2016	102,576	8.92	Y		
1.1.5) BA15 PROPELLANT CHARGE M235		2015	AMERICAN ORDANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	43,325	9.05	Y		
1.1.5) BA15 PROPELLANT CHARGE M235	✓	2015	AMERICAN ORDANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	179,537	9.05	Y		
1.1.5) BA15 PROPELLANT CHARGE M235		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	45,341	10.55	Y		
1.1.5) BA15 PROPELLANT CHARGE M235		2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	23,914	12.67	Y		
1.1.5) BA15 PROPELLANT CHARGE M235	✓	2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	22,967	12.67	Y		
1.1.6) BA15 FIN ASSEMBLY M27		2014	Flexible Concepts / Elkhart, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	23,409	7.19	Y		
1.1.6) BA15 FIN ASSEMBLY M27	✓	2014	Flexible Concepts / Elkhart, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2014	Sep 2015	25,591	7.19	Y		
1.1.6) BA15 FIN ASSEMBLY M27		2015	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	10,831	6.79	Y		
1.1.6) BA15 FIN ASSEMBLY M27	✓	2015	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	44,884	6.79	Y		
1.1.6) BA15 FIN ASSEMBLY M27		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	11,335	10.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1083 / 60 MM, All Types	Item Number / Title [DODIC]: 1 / 60 MM, All Types
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.6) BA15 FIN ASSEMBLY M27		2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	5,953	7.39	Y		
1.1.6) BA15 FIN ASSEMBLY M27	✓	2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	5,683	7.39	Y		

Footnotes:

- (4) Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement. The data for contracts that have awarded has been updated to reflect actuals.
- (5) Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement. The data for contracts that have awarded has been updated to reflect actuals.
- (6) Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement. The data for contracts that have awarded has been updated to reflect actuals.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1091 / 81 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	137.567	10.279	1.000	-	-	-	-	-	-	-	-	148.846
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	137.567	10.279	1.000	-	-	-	-	-	-	-	-	148.846
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	137.567	10.279	1.000	-	-	-	-	-	-	-	-	148.846

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

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

Description:

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1091 / 81 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / 81 MM, All Types	P-5a		- / 137.567	- / 10.279	- / 1.000	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 137.567	- / 10.279	- / 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 sum exactly due to rounding.

Justification:
 FY 2017 funding is not required because there is sufficient inventory and projected deliveries from prior year funding to meet the current requirement for the 81MM, All Types line item.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1091 / 81 MM, All Types	Item Number / Title [DODIC]: 1 / 81 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	137.567	10.279	1.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	137.567	10.279	1.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	137.567	10.279	1.000	-	-	-

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - C868 CTG, 81MM HE WM821A1 FUZE Cost																		
Recurring Cost																		
1.1.1) C868 LOAD, ASSEMBLE, AND PACK ^(†) (1)	51.02	335,270	17.105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) C868 SHELL BODY, 81MM ^(†)	53.57	39,503	2.116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) C868 FUZE, MOF, M734A1 ^(†)	204.92	39,518	8.098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) C868 IMX-104 ^(†)	21.34	7,310	0.156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) C868 PROPELLANT CHARGE ^(†)	9.01	158,002	1.424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.6) C868 IGNITION CARTRIDGE ^(†)	17.50	39,541	0.692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.7) C868 FIN ASSEMBLY ^(†)	12.21	39,561	0.483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.8) C868 PRODUCTION ENGINEERING	-	-	1.439	-	-	0.499	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	31.513	-	-	0.499	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - C868 CTG, 81MM HE WM821A1 FUZE Cost</i>	-	-	31.513	-	-	0.499	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / O2 / 1		P-1 Line Item Number / Title: 1091 / 81 MM, All Types
		Item Number / Title [DODIC]: 1 / 81 MM, All Types

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - C869 CTG, 81MM HE M889A1 W/M935 PD FUZE Cost																		
Recurring Cost																		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK ^{(†) (2)}	59.22	333,936	19.776	72.33	15,401	1.114	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) C869 SHELL BODY, 81MM ^(†)	54.42	347,044	18.887	64.23	15,863	1.019	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) C869 M935 FUZE ^(†)	50.96	344,734	17.568	53.25	15,863	0.845	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) C869 IGNITION CARTRIDGE ^(†)	17.00	347,120	5.900	20.28	15,863	0.322	-	-	-	-	-	-	-	-	-	-	-	-
2.1.5) C869 PROP CHARGE M220 ^(†)	8.78	1,388,195	12.195	14.63	63,452	0.928	-	-	-	-	-	-	-	-	-	-	-	-
2.1.6) C869 FIN ASSEMBLY ^(†)	12.41	347,111	4.306	14.23	15,863	0.226	-	-	-	-	-	-	-	-	-	-	-	-
2.1.7) C869 PBXW-14 Bulk Explosive ^{(†) (3)}	8.67	1,011,468	8.769	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.8) C869 EXPLOSIVE FILL IMX-104 ^(†)	16.58	108,516	1.799	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.9) C869 PRODUCTION ENGINEERING	-	-	5.269	-	-	1.031	-	-	1.000	-	-	-	-	-	-	-	-	-
2.1.10) C869 ACCEPTANCE TESTING	-	-	3.043	-	-	0.150	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	97.512	-	-	5.635	-	-	1.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - C869 CTG, 81MM HE M889A1 W/ M935 PD FUZE Cost</i>	-	-	97.512	-	-	5.635	-	-	1.000	-	-	-	-	-	-	-	-	-
Hardware - C870 CTG MORTAR 81MM SMOKE RP M819 Cost																		
Recurring Cost																		
3.1.1) C870 LOAD, ASSEMBLE, AND PACK ^(†)	-	-	-	178.21	6,425	1.145	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) C870 FIBER CONTAINER PA162 ^(†)	4.80	8,750	0.042	5.71	6,654	0.038	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1091 / 81 MM, All Types	Item Number / Title [DODIC]: 1 / 81 MM, All Types

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.1.3) C870 GAS ABSORBENT MODULES (GAMS) ^(†)	18.21	17,298	0.315	10.18	13,359	0.136	-	-	-	-	-	-	-	-	-	-	-	-
3.1.4) C870 RED PHOSPHOROUS PELLET ^(†)	-	-	-	12.56	19,267	0.242	-	-	-	-	-	-	-	-	-	-	-	-
3.1.5) C870 FUZE M772 ^(†)	181.54	8,648	1.570	205.00	6,619	1.357	-	-	-	-	-	-	-	-	-	-	-	-
3.1.6) C870 IGN CARTRIDGE M752 ^(†)	18.02	8,657	0.156	18.09	6,633	0.120	-	-	-	-	-	-	-	-	-	-	-	-
3.1.7) C870 PRODUCTION ENGINEERING	-	-	1.526	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
3.1.8) C870 ACCEPTANCE TESTING	-	-	0.233	-	-	0.043	-	-	-	-	-	-	-	-	-	-	-	-
3.1.9) C870 81MM SMOKE BODY TUBE ^(†)	34.69	8,648	0.300	24.37	6,600	0.161	-	-	-	-	-	-	-	-	-	-	-	-
3.1.10) C870 81MM SMOKE TAIL CONE ^(†)	26.79	8,660	0.232	22.29	6,639	0.148	-	-	-	-	-	-	-	-	-	-	-	-
3.1.11) C870 METAL CONTAINER PA157 ^(†)	38.60	285	0.011	51.23	2,244	0.115	-	-	-	-	-	-	-	-	-	-	-	-
3.1.12) C870 PROP CHARGE M218 ^(†)	8.02	34,539	0.277	10.67	26,522	0.283	-	-	-	-	-	-	-	-	-	-	-	-
3.1.13) C870 FIN ASSEMBLY M28 ^(†)	16.44	8,637	0.142	16.10	6,645	0.107	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	4.804	-	-	4.145	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - C870 CTG MORTAR 81MM SMOKE RP M819 Cost</i>	-	-	4.804	-	-	4.145	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
4.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	3.738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	3.738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1091 / 81 MM, All Types						Item Number / Title [DODIC]: 1 / 81 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost</i>	-	-	3.738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	137.567	-	-	10.279	-	-	1.000	-	-	-	-	-	-	-	-	-

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

Footnotes:

- (1) Pricing for DODIC C868 provided by the Army and incorporates other customer buys. The unit price fluctuates depending on the total procurement.
- (2) Pricing for DODIC C869 provided by the Army and incorporates other customer buys. The unit price fluctuates depending on the total procurement.
- (3) FY15 C869 Bulk Explosive and Explosive Fill IMX-104 have been furnished via existing Army stockpile.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1091 / 81 MM, All Types					Item Number / Title [DODIC]: 1 / 81 MM, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) C868 LOAD, ASSEMBLE, AND PACK		2012 ⁽⁴⁾	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Jul 2014	Feb 2016	3,620	50.00	Y		
1.1.1) C868 LOAD, ASSEMBLE, AND PACK		2013	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Jul 2014	Feb 2016	19,920	67.12	Y		
1.1.2) C868 SHELL BODY, 81MM		2012	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Sep 2013	Mar 2015	3,764	58.72	Y		
1.1.2) C868 SHELL BODY, 81MM		2013	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Apr 2014	Oct 2015	2,521	70.99	Y		
1.1.3) 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		
1.1.4) C868 IMX-104		2013	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Mar 2014	Nov 2015	7,310	21.34	Y		
1.1.5) C868 PROPELLANT CHARGE		2012	AMERICAN ORDNANCE / MIDDLETON, IA	C / IDIQ	ROCK ISLAND ARSENAL	Sep 2013	Mar 2015	15,026	7.72	Y		
1.1.5) C868 PROPELLANT CHARGE		2013	GENERAL DYNAMICS OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Apr 2014	Oct 2015	10,117	9.39	Y		
1.1.6) C868 IGNITION CARTRIDGE		2012	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL	Sep 2013	Mar 2015	3,724	14.50	Y		
1.1.6) C868 IGNITION CARTRIDGE		2013	POCAL INDUSTRIES / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL	Apr 2014	Oct 2015	2,552	20.77	Y		
1.1.7) C868 FIN ASSEMBLY		2012	GAYSTON CORP / SPRINGBORO, OH	C / FFP	PICATINNY ARSENAL	Sep 2013	Mar 2015	3,792	12.13	Y		
1.1.7) C868 FIN ASSEMBLY		2013	GAYSTON CORP / SPRINGBORO, OH	C / FFP	PICATINNY ARSENAL	Apr 2014	Oct 2015	2,518	12.71	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK		2012 ⁽⁵⁾	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Mar 2013	Mar 2015	32,940	46.57	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK	✓	2012	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Mar 2013	Mar 2015	72,600	46.57	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK	✓	2014	GDOTS CANADA / CANADA	C / IDIQ	ROCK ISLAND ARSENAL	Aug 2014	Aug 2016	23,449	70.97	Y		
2.1.1) C869 LOAD, ASSEMBLE, AND PACK	✓	2015	DAY&ZIMMERMAN LONE STAR LLC, TEXARKANA, TX / Camden AR	C / IDIQ	ROCK ISLAND ARSENAL	Aug 2015	Aug 2017	15,401	72.33	Y		
2.1.2) C869 SHELL BODY, 81MM	✓	2014	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Mar 2014	Sep 2015	24,152	63.02	Y		
2.1.2) C869 SHELL BODY, 81MM	✓	2015	MEDICO INDUSTRIES / WILKES-BARRE, PA	C / IDIQ	PICATINNY ARSENAL	Aug 2015	Mar 2017	15,863	64.23	Y		
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	✓	2015	L-3 FUZING & ORDNANCE SYSTEMS INC / CINCINATTI, OH	C / FFP	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	15,863	53.25	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1091 / 81 MM, All Types	Item Number / Title [DODIC]: 1 / 81 MM, All Types
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.4) C869 IGNITION CARTRIDGE	✓	2015	POCAL INDUSTRIES / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL	Jul 2015	Feb 2017	15,863	20.28	Y		
2.1.5) C869 PROP CHARGE M220	✓	2014	GD-OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Jun 2014	Dec 2015	96,610	10.58	Y		
2.1.5) C869 PROP CHARGE M220	✓	2015	GD-OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Aug 2015	Mar 2017	63,452	14.63	Y		
2.1.6) C869 FIN ASSEMBLY	✓	2014	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	ROCK ISLAND ARSENAL	Jan 2014	Jul 2015	24,152	14.95	Y		
2.1.6) C869 FIN ASSEMBLY	✓	2015	GAYSTON CORP / SPRINGBORO, OH	C / IDIQ	PICATINNY ARSENAL	Jul 2015	Feb 2017	15,863	14.23	Y		
2.1.7) C869 PBXW-14 Bulk Explosive	✓	2014	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Jul 2014	Mar 2015	2,720	80.31	Y		
2.1.8) C869 EXPLOSIVE FILL IMX-104	✓	2014	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL	Aug 2014	Apr 2015	76,206	21.90	Y		
3.1.1) C870 LOAD, ASSEMBLE, AND PACK	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL	Feb 2015	Feb 2017	6,425	178.21	Y		
3.1.2) C870 FIBER CONTAINER PA162	✓	2015	UAC, INC / WYNNEWOOD, PA	C / FFP	PICATINNY ARSENAL	Apr 2015	Oct 2016	6,654	5.71	Y		
3.1.3) C870 GAS ABSORBENT MODULES (GAMS)	✓	2015	DESIGN WEST ARATECH / TUSTIN, CA	C / FFP	PICATINNY ARSENAL	Apr 2015	Oct 2016	13,359	10.18	Y		
3.1.4) C870 RED PHOSPHOROUS PELLET	✓	2015	CLARIANT CORP / KNAPSACK, GERMANY	C / FFP	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	19,267	12.56	Y		
3.1.5) C870 FUZE M772	✓	2015	Flexible Concepts / Elkhart, IN	PO	ROCK ISLAND ARSENAL	Apr 2015	Dec 2016	6,619	205.00	Y		
3.1.6) C870 IGN CARTRIDGE M752	✓	2015	POCAL INDUSTRIES / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	6,633	18.09	Y		
3.1.9) C870 81MM SMOKE BODY TUBE	✓	2015	Lewis Engineering Company / Marshall, TX	C / IDIQ	PICATINNY ARSENAL	Mar 2015	Sep 2016	6,600	24.37	Y		
3.1.10) C870 81MM SMOKE TAIL CONE	✓	2015	Lewis Engineering Company / Marshall, TX	C / IDIQ	PICATINNY ARSENAL	Mar 2015	Sep 2016	6,639	22.29	Y		
3.1.11) C870 METAL CONTAINER PA157	✓	2015	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL	Apr 2015	Oct 2016	2,244	51.23	Y		
3.1.12) C870 PROP CHARGE M218	✓	2015	GD-OTS / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL	Jun 2015	Dec 2016	26,522	10.67	Y		
3.1.13) C870 FIN ASSEMBLY M28	✓	2015	Flexible Concepts / Elkhart, IN	C / FFP	ROCK ISLAND ARSENAL	Apr 2015	Oct 2016	6,645	16.10	Y		

Footnotes:

⁽⁴⁾ Long lead time for DODIC C868 procurement in Army contracts due to component part availability.

⁽⁵⁾ Long lead time for DODIC C869 procurement in Army contracts due to component part availability.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1121 / 120 MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	312.359	15.261	4.826	16.757	0.530	17.287	22.815	24.699	74.875	76.367	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	312.359	15.261	4.826	16.757	0.530	17.287	22.815	24.699	74.875	76.367	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	312.359	15.261	4.826	16.757	0.530	17.287	22.815	24.699	74.875	76.367	Continuing	Continuing

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

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

Description:

The 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. The 120mm tank ammunition also includes target practice rounds for use with the 120MM smooth bore M256 Cannon.

The Expeditionary Fire Support System (EFSS) is the principal indirect fire support 120mm mortar for Marine Expeditionary Units and vertical assault elements of a Ship-To-Objective Maneuver (STOM) force. The EFSS ammunition suite consists of high explosive, illumination, white phosphorous and a Precision Extended Range Munition (PERM) capable of successfully engaging a spectrum of potential point and area targets.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / 120 MM, All Types	P-5a, P-21		- / 312.359	- / 15.261	- / 4.826	- / 16.757	- / 0.530	- / 17.287
P-40	Total Gross/Weapon System Cost			- / 312.359	- / 15.261	- / 4.826	- / 16.757	- / 0.530	- / 17.287

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

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

Justification:
The FY 2017 funding request was reduced by \$530 thousand to account for the availability of prior year execution balances.

The FY 2017 baseline funding will procure 120mm mortars to support required training; this includes the annual training requirements as well as the pre deployment training for the deploying Marine Expeditionary Units (MEUs).

Precision Extended Range Munition (PERM) is designed to provide Marines with a lethal, extended range, high probability one-shot capability and will augment the existing Expeditionary Fire Support System (EFSS) ammunition suite.

The 120mm white phosphorus mortar contract was deferred multiple times due to contractor delays in developing and qualifying a new munition that will properly meet strict U.S. safety and environmental requirements. The white phosphorous qualification testing was successfully completed in July 2015. The Program Office is currently preparing the qualification documentation for safety board approval and is on schedule to award the contract in June 2017.

OCO:
FY 2017 OCO funding will be used to reset munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS). This funding replenishes 120mm munitions that have been expended by Marine forces during training, preparation and rehearsals for combat engagements. This ammunition is used in the M327 EFSS 120mm mortar.

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

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
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	312.359	15.261	4.826	16.757	0.530	17.287
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	312.359	15.261	4.826	16.757	0.530	17.287
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	312.359	15.261	4.826	16.757	0.530	17.287

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - CA31 CTG 120MM TPMP-T M1002 Cost																		
Recurring Cost																		
1.1.1) CA31 COMPLETE ROUND - General Dynamics ^(†)	3,456.38	13,250	45.797	2,842.08	513	1.458	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) CA31 COMPLETE ROUND - Alliant Tech ^(†)	-	-	-	2,842.08	513	1.458	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) CA31 ENGINEERING SUPPORT	-	-	-	-	-	0.193	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	45.797	-	-	3.109	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - CA31 CTG 120MM TPMP-T M1002 Cost</i>	-	-	45.797	-	-	3.109	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CA38 CTG, 120MM TANK CANISTER M1028 Cost																		
Recurring Cost																		
2.1.1) CA38 ENGINEERING SUPPORT	-	-	-	-	-	0.080	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.080	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - CA38 CTG, 120MM TANK CANISTER M1028 Cost</i>	-	-	-	-	-	0.080	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CA45 120MM HIGH EXPLOSIVE CARTRIDGE M1101 Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
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:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.1.1) CA45 COMPLETE ROUND ^(†)	2,922.26	9,081	26.537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) CA45 ENGINEERING SUPPORT COST	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	26.539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - CA45 120MM HIGH EXPLOSIVE CARTRIDGE M1101 Cost</i>	-	-	26.539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - CA49 120MM MORTAR WHITE PHOSPHORUS, XM1103 Cost																		
Recurring Cost																		
5.1.1) CA49 COMPLETE ROUND ^(†) (1)	6,680.76	1,845	12.326	6,814.58	735	5.009	-	-	-	6,885.77	595	4.097	6,885.77	77	0.530	6,885.77	672	4.627
5.1.2) CA49 ENGINEERING SUPPORT COSTS	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	12.326	-	-	5.011	-	-	-	-	-	4.097	-	-	0.530	-	-	4.627
<i>Subtotal: Hardware - CA49 120MM MORTAR WHITE PHOSPHORUS, XM1103 Cost</i>	-	-	12.326	-	-	5.011	-	-	-	-	-	4.097	-	-	0.530	-	-	4.627
Hardware - CA57 CTG, 120MM Multi-Purpose-High Explosive (MP-HE) Cost																		
Recurring Cost																		
6.1.1) CA57 SYSTEM BUY ^(†)	9,607.67	339	3.257	9,553.88	739	7.060	9,594.43	503	4.826	-	-	-	-	-	-	-	-	-
6.1.2) CA57 ENGINEER SUPPORTING COSTS	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	3.257	-	-	7.061	-	-	4.826	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - CA57 CTG, 120MM Multi-Purpose-High Explosive (MP-HE) Cost</i>	-	-	3.257	-	-	7.061	-	-	4.826	-	-	-	-	-	-	-	-	-
Hardware - CPRM PROJECTILE 120MM MORTAR PRECISION EXTENDED RANGE Cost																		
Recurring Cost																		
7.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION	-	-	-	-	-	-	-	-	-	25,575.75	495	12.660	-	-	-	25,575.75	495	12.660

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / O2 / 1						P-1 Line Item Number / Title: 1121 / 120 MM, All Types						Item Number / Title [DODIC]: 1 / 120 MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
COMPLETE ROUND ^{(1) (2)}																		
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	12.660	-	-	-	-	-	12.660
<i>Subtotal: Hardware - CPRM PROJECTILE 120MM MORTAR PRECISION EXTENDED RANGE Cost</i>	-	-	-	-	-	-	-	-	-	-	-	12.660	-	-	-	-	-	12.660
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
8.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	224.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	224.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost</i>	-	-	224.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	312.359	-	-	15.261	-	-	4.826	-	-	16.757	-	-	0.530	-	-	17.287

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

Footnotes:

(1) There was a congressional reduction in FY15 Baseline funding to CA49 for 120mm White Phosphorous Contract Delay There was a congressional reduction in FY16 Baseline funding to CA49 for 120mm White Phosphorous Rounds Contract Delay The FY 2015-FY 2017 contract for White Phosphorous will be combined and is scheduled to award in June 2017.

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

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
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) CA31 COMPLETE ROUND - General Dynamics	✓	2015	GENERAL DYNAMICS / ST PETERSBURG, FL	SS / FFP	ROCK ISLAND	Mar 2015	Feb 2016	513	2,842.08	N		
1.1.2) CA31 COMPLETE ROUND - Alliant Tech	✓	2015	ALLIANT TECH SYS INC / PLYMOUTH, MN	SS / FFP	ROCK ISLAND	Mar 2015	Feb 2016	513	2,842.08	N		
3.1.1) CA45 COMPLETE ROUND ^(†)		2013	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Aug 2015	Feb 2017	4,499	2,789.90	Y		
3.1.1) CA45 COMPLETE ROUND ^(†)	✓	2013	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Aug 2015	Feb 2017	1,475	2,789.90	Y		
3.1.1) CA45 COMPLETE ROUND ^(†)		2014	GENERAL DYNAMICS / ST. PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Aug 2015	Feb 2017	2,382	2,789.90	Y		
5.1.1) CA49 COMPLETE ROUND ^(†)	✓	2014	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Sep 2016	Mar 2018	1,845	6,680.96	Y		
5.1.1) CA49 COMPLETE ROUND ^(†)		2015	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Jun 2017	Dec 2018	735	6,814.58	Y		
5.1.1) CA49 COMPLETE ROUND ^(†)		2017	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Jun 2017	Dec 2018	595	6,885.77	Y		
5.1.1) CA49 COMPLETE ROUND ^(†)	✓	2017	GENERAL DYNAMICS / ST PETERSBURG, FL	C / FFP	MCSC, QUANTICO VA	Jun 2017	Dec 2018	77	6,885.77	Y		
6.1.1) CA57 SYSTEM BUY		2014	RHEINMETALL / GERMANY	C / FFP	NSPS, EUROPE	Aug 2014	Feb 2016	339	9,607.67	Y		
6.1.1) CA57 SYSTEM BUY		2015	RHEINMETALL / GERMANY	C / FFP	NSPS, EUROPE	Aug 2015	Aug 2016	340	9,553.88	Y		
6.1.1) CA57 SYSTEM BUY	✓	2015	RHEINMETALL / GERMANY	C / FFP	NSPS, EUROPE	Aug 2015	Aug 2016	399	9,553.88	Y		
6.1.1) CA57 SYSTEM BUY		2016	RHEINMETALL / GERMANY	C / FFP	NSPS, EUROPE	Mar 2017	Mar 2018	503	9,594.43	Y		
7.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ^(†)		2017	TBD / TBD	C / TBD	MCSC, QUANTICO VA	Aug 2017	Jan 2020	495	25,575.75	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

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
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Cost Elements (Units in Each)						Fiscal Year 2014												Fiscal Year 2015												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
3.1.1) CA45 COMPLETE ROUND																															
Prior Years Deliveries: 725																															
	1	2013	NAVY	4,499	-	4,499																							A -	-	4,499
✓	1	2013	NAVY	1,475	-	1,475																							A -	-	1,475
	1	2014	NAVY	2,382	-	2,382																							A -	-	2,382
5.1.1) CA49 COMPLETE ROUND ⁽¹⁾																															
✓	2	2014	NAVY	1,845	-	1,845																									1,845
	2	2015	NAVY	735	-	735																									735
	2	2017	NAVY	595	-	595																									595
✓	2	2017	NAVY	77	-	77																									77
7.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ⁽²⁾																															
	3	2017	NAVY	495	-	495																									495
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1121 / 120 MM, All Types **Item Number / Title [DODIC]:** 1 / 120 MM, All Types

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016														Fiscal Year 2017										BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

3.1.1) CA45 COMPLETE ROUND																																		
Prior Years Deliveries: 725																																		
	1	2013	NAVY	4,499	-	4,499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000	1,000	1,000	1,000	499	-
✓	1	2013	NAVY	1,475	-	1,475	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000	475				-
	1	2014	NAVY	2,382	-	2,382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000	1,000	382			-	

5.1.1) CA49 COMPLETE ROUND ⁽¹⁾																																			
✓	2	2014	NAVY	1,845	-	1,845																												1,845	
	2	2015	NAVY	735	-	735																													735
	2	2017	NAVY	595	-	595																													595
✓	2	2017	NAVY	77	-	77																													77

7.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ⁽²⁾																																		
	3	2017	NAVY	495	-	495																												495
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1121 / 120 MM, All Types **Item Number / Title [DODIC]:** 1 / 120 MM, All Types

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
3.1.1) CA45 COMPLETE ROUND																																	
Prior Years Deliveries: 725																																	
	1	2013	NAVY	4,499	4,499	-																											-
✓	1	2013	NAVY	1,475	1,475	-																										-	
	1	2014	NAVY	2,382	2,382	-																										-	
5.1.1) CA49 COMPLETE ROUND ⁽¹⁾																																	
✓	2	2014	NAVY	1,845	-	1,845	-	-	-	-	-	-	11	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	34	-	
	2	2015	NAVY	735	-	735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	200	200	135	-		
	2	2017	NAVY	595	-	595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	295			-		
✓	2	2017	NAVY	77	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
7.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ⁽²⁾																																	
	3	2017	NAVY	495	-	495	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	495	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1121 / 120 MM, All Types **Item Number / Title [DODIC]:** 1 / 120 MM, All Types

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
3.1.1) CA45 COMPLETE ROUND																															
Prior Years Deliveries: 725																															
	1	2013	NAVY	4,499	4,499	-																							-		
✓	1	2013	NAVY	1,475	1,475	-																							-		
	1	2014	NAVY	2,382	2,382	-																							-		
5.1.1) CA49 COMPLETE ROUND ⁽¹⁾																															
✓	2	2014	NAVY	1,845	1,845	-																							-		
	2	2015	NAVY	735	735	-																							-		
	2	2017	NAVY	595	595	-																							-		
✓	2	2017	NAVY	77	77	-																							-		
7.1.1) CPRM (PRECISION EXTENDED RANGE MUNITION COMPLETE ROUND) ⁽²⁾																															
	3	2017	NAVY	495	-	495	-	-	-	-	100	100	100	100	95															-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

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
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GENERAL DYNAMICS - ST. PETERSBURG, FL	1,800	12,000	24,000	-	-	12	12	-	-	12	12
2	GENERAL DYNAMICS - ST PETERSBURG, FL	200	400	4,500	18	-	18	18	18	-	17	17
3	TBD - TBD	500	11,000	33,000	6	6	11	17	6	6	11	17

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1468 / Grenades, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	47.672	6.218	1.390	0.972	-	0.972	0.291	0.297	0.302	0.308	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	47.672	6.218	1.390	0.972	-	0.972	0.291	0.297	0.302	0.308	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	47.672	6.218	1.390	0.972	-	0.972	0.291	0.297	0.302	0.308	Continuing	Continuing

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

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

Description:

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

Pyrotechnic items include hand held/employed explosive devices used to simulate actual explosions on the battlefield.

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1468 / Grenades, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Grenades, All Types	P-5a		- / 47.672	- / 6.218	- / 1.390	- / 0.972	- / -	- / 0.972
P-40	Total Gross/Weapon System Cost			- / 47.672	- / 6.218	- / 1.390	- / 0.972	- / -	- / 0.972

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

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

Justification:
 FY 2017 baseline funding will be used for Engineering Support In Production (ESIP) for the Smoke Grenades and the four BES cartridges. ESIP costs support engineering functions which may include quality assurance, configuration management, test support, production and technical support for ammunition items that are currently in production. This addresses any changes to the design during production, assuring that the ammunition in production is of the highest quality, and deals with manufacturing and productibility issues during production as they arise.

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1468 / Grenades, All Types	Item Number / Title [DODIC]: 1 / Grenades, All Types

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	47.672	6.218	1.390	0.972	-	0.972
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	47.672	6.218	1.390	0.972	-	0.972
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	47.672	6.218	1.390	0.972	-	0.972

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - G940-GREN HAND SMOKE, GREEN M18 Cost																		
Recurring Cost																		
1.1.1) G940-GREN HAND SMOKE, GREEN - LOAD, ASSEMBLE, AND PACK ^(†)	31.37	24,256	0.761	30.16	51,937	1.567	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) G940-GREN HAND SMOKE, GREEN - FUZE, HAND GREN M201A1 ^(†)	4.76	25,220	0.120	7.96	54,015	0.430	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) G940-GREN HAND SMOKE, GREEN - METAL PARTS SET ^(†)	1.68	27,894	0.047	1.90	56,092	0.107	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) G940-GREN HAND SMOKE, GREEN - PRODUCT ENGINEERING	-	-	0.025	-	-	0.041	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) G940-GREN HAND SMOKE, GREEN - QUALITY ASSURANCE	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.953</i>	-	-	<i>2.146</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - G940-GREN HAND SMOKE, GREEN M18 Cost</i>	-	-	<i>0.953</i>	-	-	<i>2.146</i>	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / O2 / 1						P-1 Line Item Number / Title: 1468 / Grenades, All Types						Item Number / Title [DODIC]: 1 / Grenades, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - G945-GREN HAND SMOKE, YELLOW M18 Cost																		
Recurring Cost																		
2.1.1) G945-GREN HAND SMOKE, YELLOW - LOAD, ASSEMBLE, AND PACK ^(†)	33.80	36,093	1.220	32.86	43,766	1.438	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) G945-GREN HAND SMOKE, YELLOW - FUZE, HAND GREN M201A1 ^(†)	4.86	43,659	0.212	9.33	45,517	0.425	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) G945-GREN HAND SMOKE, YELLOW - METAL PARTS SET ^(†)	1.74	45,999	0.080	2.20	47,267	0.104	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) G945-GREN HAND SMOKE, YELLOW - PRODUCT ENGINEERING	-	-	0.051	-	-	0.066	-	-	-	-	-	-	-	-	-	-	-	-
2.1.5) G945-GREN HAND SMOKE, YELLOW - QUALITY ASSURANCE	-	-	0.006	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1.569	-	-	2.036	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - G945-GREN HAND SMOKE, YELLOW M18 Cost</i>	-	-	1.569	-	-	2.036	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - G982-GREN HAND SMOKE, WHITE M83 Cost																		
Recurring Cost																		
3.1.1) G982-GREN HAND SMOKE, WHITE - LOAD, ASSEMBLE, AND PACK ^(†)	22.28	29,988	0.668	20.17	58,057	1.171	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) G982-GREN HAND SMOKE, WHITE - FUZE, GREN HAND M201A1 ^(†)	4.83	26,481	0.128	9.33	60,379	0.564	-	-	-	-	-	-	-	-	-	-	-	-
3.1.3) G982-GREN HAND SMOKE, WHITE - GREN METAL PARTS SET ^(†)	1.97	30,975	0.061	2.20	62,702	0.138	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1468 / Grenades, All Types	Item Number / Title [DODIC]: 1 / Grenades, All Types
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.1.4) G982-GREN HAND SMOKE, WHITE - PRODUCT ENGINEERING ⁽¹⁾	-	-	0.185	-	-	0.161	-	-	-	-	-	0.700	-	-	-	-	-	0.700
3.1.5) G982-GREN HAND SMOKE, WHITE - QUALITY ASSURANCE	-	-	0.025	-	-	0.002	-	-	-	-	-	0.075	-	-	-	-	-	0.075
<i>Subtotal: Recurring Cost</i>	-	-	<i>1.067</i>	-	-	<i>2.036</i>	-	-	-	-	-	<i>0.775</i>	-	-	-	-	-	<i>0.775</i>
<i>Subtotal: Hardware - G982-GREN HAND SMOKE, WHITE M83 Cost</i>	-	-	<i>1.067</i>	-	-	<i>2.036</i>	-	-	-	-	-	<i>0.775</i>	-	-	-	-	-	<i>0.775</i>

Hardware - GG24 - GREN, 66MM SSVL MK 1 MOD 0 Cost

Recurring Cost																		
4.1.1) GG24-GREN 66MM SSVL MK1 MOD 0 - LOAD, ASSEMBLE, AND PACK	226.18	16,319	3.691	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>3.691</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - GG24 - GREN, 66MM SSVL MK 1 MOD 0 Cost</i>	-	-	<i>3.691</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Hardware - K765 - RIOT CONTROL AGENT, CS Cost

Recurring Cost																		
5.1.1) K765-RIOT CONTROL AGENT, CS - LOAD, ASSEMBLE, AND PACK ⁽¹⁾	0.43	772,958	0.332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.332</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - K765 - RIOT CONTROL AGENT, CS Cost</i>	-	-	<i>0.332</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Hardware - LA44 - SIMULATOR, SIGNAL & ILLUM WHITE STAR GF 1.5 Cost

Recurring Cost																		
6.1.1) LA44-SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5-LOAD, ASSEMBLE, AND PACK ⁽¹⁾	6.89	103,193	0.711	-	-	-	6.99	68,955	0.482	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1468 / Grenades, All Types	Item Number / Title [DODIC]: 1 / Grenades, All Types

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.1.2) LA44-SIMULATOR, SIG & ILLUM WHITE STAR GF 1.5 - PRODUCT ENGINEERING (2)	-	-	0.160	-	-	-	-	-	0.040	-	-	0.180	-	-	-	-	-	0.180
6.1.3) LA44-SIMULATOR, SIG & ILLUM WHITE STAR GF 1.5 - QUALITY ASSURANCE	-	-	0.006	-	-	-	-	-	0.002	-	-	0.017	-	-	-	-	-	0.017
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.877</i>	-	-	-	-	-	<i>0.524</i>	-	-	<i>0.197</i>	-	-	-	-	-	<i>0.197</i>
<i>Subtotal: Hardware - LA44 - SIMULATOR, SIGNAL & ILLUM WHITE STAR GF 1.5 Cost</i>	-	-	<i>0.877</i>	-	-	-	-	-	<i>0.524</i>	-	-	<i>0.197</i>	-	-	-	-	-	<i>0.197</i>
Hardware - LA45 - SIMULATOR, AIRBURST GF 1.5 Cost																		
Recurring Cost																		
7.1.1) LA45-SIMULATOR, AIRBURST GF 1.5 - LOAD, ASSEMBLE, AND PACK(1)	14.30	45,804	0.655	-	-	-	15.00	5,467	0.082	-	-	-	-	-	-	-	-	-
7.1.2) LA45-SIMULATOR, AIRBURST GF 1.5 - PRODUCT ENGINEERING	-	-	0.091	-	-	-	-	-	0.006	-	-	-	-	-	-	-	-	-
7.1.3) LA45-SIMULATOR, AIRBURST GF 1.5 - QUALITY ASSURANCE	-	-	0.001	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.747</i>	-	-	-	-	-	<i>0.089</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - LA45 - SIMULATOR, AIRBURST GF 1.5 Cost</i>	-	-	<i>0.747</i>	-	-	-	-	-	<i>0.089</i>	-	-	-	-	-	-	-	-	-
Hardware - LA46 - SIMULATOR, HOSTILE FIRE GF 1.5 Cost																		
Recurring Cost																		
8.1.1) LA46-SIMULATOR, HOSTILE FIRE GF 1.5 - LOAD, ASSEMBLE, AND PACK(1)	7.20	98,611	0.710	-	-	-	7.50	86,266	0.647	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1468 / Grenades, All Types	Item Number / Title [DODIC]: 1 / Grenades, All Types

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
8.1.2) LA46-SIMULATOR, HOSTILE FIRE GF 1.5 - PRODUCT ENGINEERING	-	-	0.140	-	-	-	-	-	0.037	-	-	-	-	-	-	-	-	-
8.1.3) LA46-SIMULATOR, HOSTILE FIRE GF 1.5 - QUALITY ASSURANCE	-	-	0.001	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.851	-	-	-	-	-	0.685	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - LA46 - SIMULATOR, HOSTILE FIRE GF 1.5 Cost</i>	-	-	0.851	-	-	-	-	-	0.685	-	-	-	-	-	-	-	-	-
Hardware - LA47 - SIMULATOR, AT GUIDED MISSILE STINGER GF 1.5 Cost																		
Recurring Cost																		
9.1.1) LA47-SIMULATOR, AT GM STINGER 1.5 - LOAD, ASSEMBLE, AND PACK ^(†)	11.41	23,138	0.264	-	-	-	13.00	6,538	0.085	-	-	-	-	-	-	-	-	-
9.1.2) LA47-SIMULATOR, AT GM STINGER 1.5 - PRODUCT ENGINEERING	-	-	0.090	-	-	-	-	-	0.006	-	-	-	-	-	-	-	-	-
9.1.3) LA47-SIMULATOR, AT GM STINGER 1.5 - QUALITY ASSURANCE	-	-	0.001	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.355	-	-	-	-	-	0.092	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - LA47 - SIMULATOR, AT GUIDED MISSILE STINGER GF 1.5 Cost</i>	-	-	0.355	-	-	-	-	-	0.092	-	-	-	-	-	-	-	-	-
Hardware - Prior Years Cumulative Funding Cost																		
Non Recurring Cost																		
10.1.1) Prior Years Cumulative Funding	-	-	37.230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	37.230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1468 / Grenades, All Types						Item Number / Title [DODIC]: 1 / Grenades, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Hardware - Prior Years Cumulative Funding Cost</i>	-	-	37.230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	47.672	-	-	6.218	-	-	1.390	-	-	0.972	-	-	-	-	-	0.972

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

Footnotes:

- (1) FY 2017 Production Engineering costs required by PEO Army to support items procured in the Grenades line item are included in the DODIC G982 Cost Element.
- (2) FY 2017 Production Engineering costs required to support items procured in the Grenades line item are included in the DODIC LA44 Cost Element.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1468 / Grenades, All Types					Item Number / Title [DODIC]: 1 / Grenades, All Types				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) G940-GREN HAND SMOKE, GREEN - LOAD, ASSEMBLE, AND PACK		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Jun 2015	Jun 2016	24,697	30.16	Y		Mar 2015
1.1.1) G940-GREN HAND SMOKE, GREEN - LOAD, ASSEMBLE, AND PACK	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Jun 2015	Jun 2016	27,240	30.16	Y		Mar 2015
1.1.2) G940-GREN HAND SMOKE, GREEN - FUZE, HAND GREN M201A1		2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	Jun 2015	Apr 2016	25,685	7.96	Y		May 2015
1.1.2) G940-GREN HAND SMOKE, GREEN - FUZE, HAND GREN M201A1	✓	2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	Jun 2015	Apr 2016	28,330	7.96	Y		May 2015
1.1.3) G940-GREN HAND SMOKE, GREEN - METAL PARTS SET		2015	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	Jun 2015	Apr 2016	26,673	1.90	Y		May 2015
1.1.3) G940-GREN HAND SMOKE, GREEN - METAL PARTS SET	✓	2015	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	Jun 2015	Apr 2016	29,419	1.90	Y		May 2015
2.1.1) G945-GREN HAND SMOKE, YELLOW - LOAD, ASSEMBLE, AND PACK		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Jun 2016	22,252	32.86	Y		Jan 2015
2.1.1) G945-GREN HAND SMOKE, YELLOW - LOAD, ASSEMBLE, AND PACK	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Jun 2016	21,514	32.86	Y		Jan 2015
2.1.2) G945-GREN HAND SMOKE, YELLOW - FUZE, HAND GREN M201A1		2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	Aug 2015	Aug 2016	23,142	9.33	Y		May 2015
2.1.2) G945-GREN HAND SMOKE, YELLOW - FUZE, HAND GREN M201A1	✓	2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	Aug 2015	Aug 2016	22,375	9.33	Y		May 2015
2.1.3) G945-GREN HAND SMOKE, YELLOW - METAL PARTS SET		2015	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	24,032	2.20	Y		Feb 2015
2.1.3) G945-GREN HAND SMOKE, YELLOW - METAL PARTS SET	✓	2015	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	23,235	2.20	Y		Feb 2015
3.1.1) G982-GREN HAND SMOKE, WHITE - LOAD, ASSEMBLE, AND PACK	✓	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-GREN HAND SMOKE, WHITE - LOAD, ASSEMBLE, AND PACK		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Jun 2016	25,933	20.17	Y		Jan 2015
3.1.1) G982-GREN HAND SMOKE, WHITE - LOAD, ASSEMBLE, AND PACK	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND, IL	Mar 2015	Jun 2016	32,124	20.17	Y		Jan 2015

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
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				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.2) G982-GREN HAND SMOKE, WHITE - FUZE, GREN HAND M201A1	✓	2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	Mar 2014	Mar 2015	10,033	4.98	Y		Jan 2014
3.1.2) G982-GREN HAND SMOKE, WHITE - FUZE, GREN HAND M201A1		2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	26,970	9.33	Y		Feb 2015
3.1.2) G982-GREN HAND SMOKE, WHITE - FUZE, GREN HAND M201A1	✓	2015	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	ROCK ISLAND, IL	May 2015	May 2016	33,409	9.33	Y		Feb 2015
3.1.3) G982-GREN HAND SMOKE, WHITE - GREN METAL PARTS SET	✓	2014	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	Mar 2014	Mar 2015	12,789	2.35	Y		Jan 2014
3.1.3) G982-GREN HAND SMOKE, WHITE - GREN METAL PARTS SET		2015	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	Aug 2015	Aug 2016	28,008	2.20	Y		May 2015
3.1.3) G982-GREN HAND SMOKE, WHITE - GREN METAL PARTS SET	✓	2015	TOOL MASTERS INC / TUSCUMBIA, AL	C / FFP	ROCK ISLAND, IL	Aug 2015	Aug 2016	34,694	2.20	Y		May 2015
5.1.1) K765-RIOT CONTROL AGENT, CS - LOAD, ASSEMBLE, AND PACK		2014 ⁽³⁾	TBD / TBD	C / FFP	ROCK ISLAND, IL	Feb 2016	Feb 2017	772,958	0.43	Y		Sep 2015
6.1.1) LA44-SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5-LOAD, ASSEMBLE, AND PACK		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	103,193	6.89	Y		Mar 2014
6.1.1) LA44-SIMULATOR, SIG & ILLUM, WHITE STAR GF 1.5-LOAD, ASSEMBLE, AND PACK		2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2016	Jun 2017	68,955	6.99	Y		Mar 2016
7.1.1) LA45-SIMULATOR, AIRBURST GF 1.5 - LOAD, ASSEMBLE, AND PACK		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	45,804	14.30	Y		Mar 2014
7.1.1) LA45-SIMULATOR, AIRBURST GF 1.5 - LOAD, ASSEMBLE, AND PACK		2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2016	Jun 2017	5,467	15.00	Y		Mar 2016
8.1.1) LA46-SIMULATOR, HOSTILE FIRE GF 1.5 - LOAD, ASSEMBLE, AND PACK		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	98,611	7.20	Y		Mar 2014
8.1.1) LA46-SIMULATOR, HOSTILE FIRE GF 1.5 - LOAD, ASSEMBLE, AND PACK		2016	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2016	Jun 2017	86,266	7.50	Y		Mar 2014
9.1.1) LA47-SIMULATOR, AT GM STINGER 1.5 - LOAD, ASSEMBLE, AND PACK		2014	CHEMRING ORDNANCE, INC. / PERRY,FL	C / FFP	MCSC	Jun 2014	Jun 2015	23,138	11.41	Y		Mar 2014

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

Footnotes:

⁽³⁾ Change in contract award date from NOV 2015 to FEB 2016 is due to delay in source selection and official discussions.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1471 / Rockets, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	110.512	24.310	18.960	14.186	0.469	14.655	41.228	20.531	20.920	21.354	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	110.512	24.310	18.960	14.186	0.469	14.655	41.228	20.531	20.920	21.354	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	110.512	24.310	18.960	14.186	0.469	14.655	41.228	20.531	20.920	21.354	Continuing	Continuing

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

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

Description:

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

The Tactical Rocket, 66mm High Explosive anti-armor (HEAA) weapon is a lightweight, single shot, disposable weapon optimized to defeat light armored vehicles and other hard targets at close combat ranges.

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1471 / Rockets, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Rockets, All Types	P-5a, P-21		- / 110.512	- / 24.310	- / 18.960	- / 14.186	- / 0.469	- / 14.655
P-40	Total Gross/Weapon System Cost			- / 110.512	- / 24.310	- / 18.960	- / 14.186	- / 0.469	- / 14.655

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

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

Justification:
 FY 2017 funds will support the procurement of the 83mm Common Practice (CP) Shoulder Mounted Assault Weapon (SMAW). The 83mm High-Explosive Anti-Armor (HEAA) Common Practice MK7 Mod 0 (SMAW) is designed as a practice round for Shoulder launched Multipurpose Assault Weapon (SMAW) rockets. The rocket is an unguided, practice rocket contained in a disposable one-shot rocket container. Due to technical challenges, the Marine Corps has restructured the Follow-On To Shoulder launched Multipurpose Assault Weapon (FOTS) program. The FOTS system was scheduled to replace the legacy family of Shoulder launched Multipurpose Assault Weapon (SMAW) in the Marine Corps which includes the 83mm HEAA practice rocket. As a result of previously planned fielding of FOTS munitions the Marine Corps discontinued procurement of the SMAW munitions and began to draw down its inventory of these legacy munitions. However, to mitigate the current delay in fielding FOTS, the Marine Corps must now continue to support the SMAW capability and has made the procurement of the 83mm HEAA practice rocket necessary.

Currently, the Marine Corps is critically short these rounds in support of training and has implemented restrictions on the use of this round to ensure the existing stockpile will be available until additional 83mm HEAA practice rockets can be procured.

OCO:
 FY 2017 OCO funding will be used to reset munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
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:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	110.512	24.310	18.960	14.186	0.469	14.655
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	110.512	24.310	18.960	14.186	0.469	14.655
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	110.512	24.310	18.960	14.186	0.469	14.655

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)

Hardware - HA29 Rocket, 66MM HE M72A7 W/ GRAZE Cost

Recurring Cost																		
1.1.1) HA29, COMPLETE ROUND ^(†)	2,542.36	27,406	69.676	2,931.33	1,833	5.373	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) PRODUCTION ENGINEERING	-	-	-	-	-	0.515	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	69.676	-	-	5.888	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - HA29 Rocket, 66MM HE M72A7 W/ GRAZE Cost</i>	-	-	69.676	-	-	5.888	-	-	-	-	-	-	-	-	-	-	-	-

Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost

Recurring Cost																		
2.1.1) HX07 COMPLETE ROUND ^{(†) (1)}	5,409.20	5,259	28.447	5,409.07	3,307	17.888	5,409.07	3,412	18.456	4,107.28	3,453	14.182	4,107.28	114	0.468	4,107.28	3,567	14.650
2.1.2) PRODUCTION ENGINEERING	-	-	-	-	-	0.534	-	-	0.504	-	-	0.004	-	-	0.001	-	-	0.005
<i>Subtotal: Recurring Cost</i>	-	-	28.447	-	-	18.422	-	-	18.960	-	-	14.186	-	-	0.469	-	-	14.655
<i>Subtotal: Hardware - HX07 ROCKET, 83MM HEAA PRACTICE Cost</i>	-	-	28.447	-	-	18.422	-	-	18.960	-	-	14.186	-	-	0.469	-	-	14.655

Hardware - Cumulative PY Funding Cost

Non Recurring Cost

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1471 / Rockets, All Types						Item Number / Title [DODIC]: 1 / Rockets, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.1.1) Cumulative PY Funding	-	-	12.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	12.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Cumulative PY Funding Cost</i>	-	-	12.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	110.512	-	-	24.310	-	-	18.960	-	-	14.186	-	-	0.469	-	-	14.655

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

Footnotes:

(1) There was a congressional reduction in FY 2015 and FY 2016 Baseline funding to HX07 for 83mm HEAA Practice Round Contract Delay. Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

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
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) HA29, COMPLETE ROUND ^(†)	✓	2013	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	1,040	2,931.33	Y		May 2014
1.1.1) HA29, COMPLETE ROUND ^(†)		2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	1,301	2,931.33	Y		May 2014
1.1.1) HA29, COMPLETE ROUND ^(†)	✓	2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	May 2015	May 2017	532	2,931.33	Y		May 2014
2.1.1) HX07 COMPLETE ROUND ^(†)		2013	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Sep 2015	Apr 2018	5,259	5,409.07	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)		2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Sep 2015	Apr 2018	2,278	5,409.07	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)	✓	2015	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Sep 2015	Apr 2018	1,029	5,409.07	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)		2016	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Jun 2016	Oct 2018	2,674	5,409.07	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)	✓	2016	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Jun 2016	Oct 2018	738	5,409.07	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)		2017	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Jun 2017	Oct 2019	3,453	4,107.28	Y		
2.1.1) HX07 COMPLETE ROUND ^(†)	✓	2017	NAMMO Talley Defense Systems / Mesa, AZ	C / FFP	Picatinny Arsenal, NJ	Jun 2017	Oct 2019	114	4,107.28	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1471 / Rockets, All Types **Item Number / Title [DODIC]:** 1 / Rockets, All Types

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1.1.1) HA29, COMPLETE ROUND																															
Prior Years Deliveries: 26366																															
✓	1	2013	NAVY	1,040	-	1,040																							1,040		
	1	2015	NAVY	1,301	-	1,301																							1,301		
✓	1	2015	NAVY	532	-	532																							532		
2.1.1) HX07 COMPLETE ROUND ⁽¹⁾																															
	2	2013	NAVY	5,259	-	5,259																							5,259		
	2	2015	NAVY	2,278	-	2,278																							2,278		
✓	2	2015	NAVY	1,029	-	1,029																							1,029		
	2	2016	NAVY	2,674 ⁽²⁾	-	2,674																							2,674		
✓	2	2016	NAVY	738 ⁽³⁾	-	738																							738		
	2	2017	NAVY	3,453 ⁽⁴⁾	-	3,453																							3,453		
✓	2	2017	NAVY	114 ⁽⁵⁾	-	114																							114		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

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
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
1.1.1) HA29, COMPLETE ROUND																																
Prior Years Deliveries: 26366																																
✓	1	2013	NAVY	1,040	-	1,040	-	-	-	-	-	-	-	-	200	200	200	200	200	40												
	1	2015	NAVY	1,301	-	1,301	-	-	-	-	-	-	-	-	200	200	200	200	200	200	101											
✓	1	2015	NAVY	532	-	532	-	-	-	-	-	-	-	-	200	200	132															
2.1.1) HX07 COMPLETE ROUND ⁽¹⁾																																
	2	2013	NAVY	5,259	-	5,259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2	2015	NAVY	2,278	-	2,278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
✓	2	2015	NAVY	1,029	-	1,029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2	2016	NAVY	2,674 ⁽²⁾	-	2,674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
✓	2	2016	NAVY	738 ⁽³⁾	-	738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2	2017	NAVY	3,453 ⁽⁴⁾	-	3,453										A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
✓	2	2017	NAVY	114 ⁽⁵⁾	-	114										A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1471 / Rockets, All Types **Item Number / Title [DODIC]:** 1 / Rockets, All Types

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
1.1.1) HA29, COMPLETE ROUND																																
Prior Years Deliveries: 26366																																
✓	1	2013	NAVY	1,040	1,040	-																							-			
	1	2015	NAVY	1,301	1,301	-																							-			
✓	1	2015	NAVY	532	532	-																							-			
2.1.1) HX07 COMPLETE ROUND ⁽¹⁾																																
	2	2013	NAVY	5,259	5,259	-																							-			
	2	2015	NAVY	2,278	2,278	-																							-			
✓	2	2015	NAVY	1,029	900	129	129																						-			
	2	2016	NAVY	2,674 ⁽²⁾	-	2,674	558	558	558	558	442																		-			
✓	2	2016	NAVY	738 ⁽³⁾	-	738	738																						-			
	2	2017	NAVY	3,453 ⁽⁴⁾	-	3,453	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,316	137							-			
✓	2	2017	NAVY	114 ⁽⁵⁾	-	114	-	-	-	-	-	-	-	-	-	-	-	-	-	114									-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

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
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	NAMMO Talley Defense Systems - Mesa, AZ	1,000	2,500	10,000	12	12	12	24	12	12	12	24
2	NAMMO Talley Defense Systems - Mesa, AZ	1,000	2,500	10,000	8	8	31	39	6	6	28	34

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

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

Footnotes:

- (2) FY 2016 is a option year on an existing contract and is likely to award earlier than stated.
- (3) FY 2016 is a option year on an existing contract and is likely to award earlier than stated.
- (4) FY 2017 is a option year on an existing contract and is likely to award earlier than stated.
- (5) FY 2017 is a option year on an existing contract and is likely to award earlier than stated.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

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

Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	353.155	42.357	99.819	68.656	1.196	69.852	39.988	54.586	100.940	110.397	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	353.155	42.357	99.819	68.656	1.196	69.852	39.988	54.586	100.940	110.397	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	353.155	42.357	99.819	68.656	1.196	69.852	39.988	54.586	100.940	110.397	Continuing	Continuing

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

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

Description:

The family of 155MM artillery is separate loading ammunition fired from M777 howitzers, and have four separate components: primer, propellant, projectile, and fuze. High explosive artillery ammunition is used against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications installations, and mechanized and armored forces. Precision-guided artillery provides accurate, first round fire-for-effect capability, and can achieve reduced collateral damage. Illumination cartridges are used to illuminate the battlefield with light either in visual or near Infrared Spectrum. Infrared Spectrum provides a decisive advantage while using Night Vision Devices. Smoke cartridges are used to provide obscuration on the battlefield and to mark locations. Obscuration rounds are used to build a smoke screen to provide cover for the maneuver unit from enemy observation.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1473 / Artillery, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Artillery, All Types	P-5a, P-21		- / 353.155	- / 42.359	- / 99.819	- / 68.656	- / 1.196	- / 69.852
P-40	Total Gross/Weapon System Cost			- / 353.155	- / 42.357	- / 99.819	- / 68.656	- / 1.196	- / 69.852

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
 The FY 2017 baseline funding will procure Insensitive Munitions (IM) Projectile that were developed to be the solution replacement for the legacy 155mm High Explosive (HE) Projectile. The Insensitive Munitions utilizes IMX-101 (insensitive explosive) as the main fill in place of TNT explosive main fill. Due to the improvements to the 155mm HE Projectile to reach IM compliance, the unit cost increased by approximately 50%. The majority of the costs are due to the increased material costs of the IM explosive as well as the added costs for the Load, Assembly and Packaging (LAP) operations.

Any decreases in funding will dramatically affect the Marines ability to conduct training in preparation for combat operations.

Insensitive Munitions requirements are set forth in U.S. Code, Title 10, Subtitle A, Part IV, Chapter 141, Section 2389: "The Secretary of Defense shall ensure, to the extent practicable, that insensitive munitions under development or procurement are safe throughout development and fielding when subject to unplanned stimuli."

OCO:
 FY 2017 OCO funding will be used to reset munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1473 / Artillery, All Types **Aggregated Items Title:** Artillery, All Types

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) B550,CTG, 40MM BLANK SALUTING SNGL RD																				
1.1) B550 LOAD, ASSEMBLY, PACK (LAP) ^(†)	A		44.79	7,278	0.326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) B550 PRIMER PERCUSSION MK22-2	A		166.67	66	0.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) B550,CTG, 40MM BLANK SALUTING SNGL RD			-	-	0.337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) C025,CTG, 75MM BLANK M337A2																				
2.1) C025 LOAD, ASSEMBLY, PACK (LAP) ^(†)	A		89.84	3,161	0.284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) C025,CTG, 75MM BLANK M337A2			-	-	0.284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) D505,PROJ, 155MM, M485A2, ILLUM																				
3.1) D505 LOAD, ASSEMBLY, PACK (LAP) ^{(1)(†)}	A		-	-	-	258.84	4,493	1.163	-	-	-	-	-	-	-	-	-	-	-	-
3.2) D505 DOWNLOAD, CLEAN AND INSPECT ^(†)	A		-	-	-	82.43	4,718	0.389	-	-	-	-	-	-	-	-	-	-	-	-
3.3) D505 METAL PARTS SETS ^(†)	A		-	-	-	258.67	4,493	1.162	-	-	-	-	-	-	-	-	-	-	-	-
3.4) D505 ILLUM CANNISTER, 155MM ^(†)	A		-	-	-	312.47	4,583	1.432	-	-	-	-	-	-	-	-	-	-	-	-
3.5) D505 CANISTER MPTS ASSY, 155MM ILLUM ^(†)	A		-	-	-	49.29	4,583	0.226	-	-	-	-	-	-	-	-	-	-	-	-
3.6) D505 CANISTER BASE ASSY, 155MM ILLUM ^(†)	A		-	-	-	15.54	4,583	0.071	-	-	-	-	-	-	-	-	-	-	-	-
3.7) D505 M10 EXPULSION CHARGE ASSEMBLY ^(†)	A		-	-	-	16.28	4,583	0.075	-	-	-	-	-	-	-	-	-	-	-	-
3.8) D505 PARACHUTE MAIN, 155MM ILLUM ^(†)	A		-	-	-	33.90	4,583	0.155	-	-	-	-	-	-	-	-	-	-	-	-
3.9) D505 PARACHUTE MAIN SUPPORTS, 155MM ILLUM ^(†)	A		-	-	-	3.00	18,331	0.055	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy																Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1473 / Artillery, All Types						Aggregated Items Title: Artillery, All Types								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.10) D505 PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM ^(†)	A		-	-	-	16.90	4,583	0.077	-	-	-	-	-	-	-	-	-	-	-	
3.11) D505 DELAY ELEMENT, 155MM ILLUM ^(†)	A		-	-	-	32.92	4,583	0.151	-	-	-	-	-	-	-	-	-	-	-	
3.12) D505 WOOD PALLET (HEAT TREATED) ^(†)	A		-	-	-	86.63	584	0.051	-	-	-	-	-	-	-	-	-	-	-	
3.13) D505 PRODUCTION ENGINEERING	A		-	-	-	-	-	0.155	-	-	-	-	-	-	-	-	-	-	-	
3.14) D505 ACCEPTANCE TESTING	A		-	-	-	-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) D505,PROJ, 155MM, M485A2, ILLUM			-	-	0.000	-	-	5.182	-	-	-	-	-	-	-	-	-	-	-	
4) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS																				
4.1) DA12 LOAD, ASSEMBLE & PACK (LAP) ^{(2)(†)}	A		-	-	31.466	16.32	50,160	0.819	-	-	-	-	-	-	-	-	-	-	-	
4.2) DA12 BLACK POWDER, M231 ^(†)	A		-	-	-	14.75	5,200	0.077	-	-	-	-	-	-	-	-	-	-	-	
4.3) DA12 PROPELLANT, PAPP7993 ^(†)	A		-	-	-	8.35	177,000	1.478	-	-	-	-	-	-	-	-	-	-	-	
4.4) DA12 COMBUSTIBLE CASES ^(†)	A		-	-	-	35.22	51,696	1.821	-	-	-	-	-	-	-	-	-	-	-	
4.5) DA12 PRODUCTION ENGINEERING	A		-	-	-	-	-	0.906	-	-	-	-	-	-	-	-	-	-	-	
4.6) DA12 ACCEPTANCE TESTING	A		-	-	-	-	-	0.081	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 4) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS			-	-	31.466	-	-	5.182	-	-	-	-	-	-	-	-	-	-	-	
5) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS																				
5.1) DA13 LOAD, ASSEMBLE & PACK (LAP) ^{(3)(†)}	A		-	-	42.083	18.54	30,900	0.573	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1473 / Artillery, All Types **Aggregated Items Title:** Artillery, All Types

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.2) DA13 COMBUSTIBLE CASES ^(f)	A		-	-	-	35.92	27,024	0.971	-	-	-	-	-	-	-	-	-	-	-	
5.3) DA13 BLACK POWDER CLASS 1 (LB) ^(f)	A		-	-	-	14.75	5,300	0.078	-	-	-	-	-	-	-	-	-	-	-	
5.4) DA13 PROPELLANT M31A2 ^(f)	A		-	-	-	16.91	153,456	2.595	-	-	-	-	-	-	-	-	-	-	-	
5.5) DA13 PRODUCTION ENGINEERING			-	-	-	-	-	1.105	-	-	-	-	-	-	-	-	-	-	-	
5.6) DA13 ACCEPTANCE TESTING			-	-	-	-	-	0.060	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 5) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS			-	-	42.083	-	-	5.382	-	-	-	-	-	-	-	-	-	-	-	
6) DA49, 155MM, IR ILLUM																				
6.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^(f)	A		263.43	2,661	0.701	258.84	6,551	1.696	-	-	-	-	-	-	-	-	-	-	-	
6.2) DA49 DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE ^(f)	A		-	-	-	82.43	6,879	0.567	-	-	-	-	-	-	-	-	-	-	-	
6.3) DA49 M10 EXPULSION CHARGE ASSY ^(f)	A		-	-	-	16.28	6,682	0.109	-	-	-	-	-	-	-	-	-	-	-	
6.4) DA49 METAL PARTS SET ^(f)	A		-	-	-	258.29	6,551	1.692	-	-	-	-	-	-	-	-	-	-	-	
6.5) DA49 IR ILLUM CANISTER, 155MM ^(f)	A		326.23	2,768	0.903	308.41	6,682	2.061	-	-	-	-	-	-	-	-	-	-	-	
6.6) DA49 PARACHUTE, MAIN ^(f)	A		34.41	2,703	0.093	38.35	6,682	0.257	-	-	-	-	-	-	-	-	-	-	-	
6.7) DA49 DELAY ELEMENT ^(f)	A		30.00	2,733	0.082	32.92	6,682	0.220	-	-	-	-	-	-	-	-	-	-	-	
6.8) DA49 CANISTER, MPTS ASSY ^(f)	A		53.99	2,741	0.148	49.29	6,682	0.330	-	-	-	-	-	-	-	-	-	-	-	
6.9) DA49 PARACHUTE, MAIN SUPPORTS ^(f)	A		2.96	10,811	0.032	3.00	26,746	0.080	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / O2 / 1 **P-1 Line Item Number / Title:** 1473 / Artillery, All Types **Aggregated Items Title:** Artillery, All Types

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.10) DA49 PARACHUTE, DROGUE ASSY ^(†)	A		16.70	2,754	0.046	15.95	6,682	0.106	-	-	-	-	-	-	-	-	-	-	-	
6.11) DA49 CANISTER, BASE ASSY ^(†)	A		17.15	2,741	0.047	15.54	6,682	0.104	-	-	-	-	-	-	-	-	-	-	-	
6.12) DA49 WOOD PALLET (HEAT TREATED) ^(†)	A		-	-	-	86.63	852	0.074	-	-	-	-	-	-	-	-	-	-	-	
6.13) DA49 PRODUCTION ENGINEERING			-	-	0.010	-	-	0.045	-	-	-	-	-	-	-	-	-	-	-	
6.14) DA49 ACCEPTANCE TESTING			-	-	0.110	-	-	0.041	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 6) DA49, 155MM, IR ILLUM			-	-	2.172	-	-	7.382	-	-	-	-	-	-	-	-	-	-	-	
7) DA54, 155MM HE M795 W/IMX																				
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ^{(4)(†)}	A		325.00	77,313	25.127	342.18	19,446	6.654	349.01	60,291	21.042	336.44	50,441	16.970	336.44	882	0.297	336.44	51,323	17.267
7.2) DA54 METAL PARTS-M795 ^(†)	A		368.40	78,859	29.052	-	-	-	495.32	60,291	29.864	-	-	-	-	-	-	-	-	-
7.3) M795 IM METAL PARTS ^(†)	A		-	-	-	-	-	-	-	-	-	402.13	51,450	20.690	402.13	900	0.362	402.13	52,350	21.052
7.4) DA54 PLUG, LIFTING, MELTABLE FOR IM ^(†)	A		16.98	78,859	1.339	18.53	19,835	0.368	19.49	60,282	1.175	19.87	51,450	1.022	19.87	900	0.018	19.87	52,350	1.040
7.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9 ^(†)	A		23.08	78,859	1.820	25.16	19,835	0.499	25.66	60,291	1.547	-	-	-	-	-	-	-	-	-
7.6) DA54 WOODEN PALLETS, IMX-101 ^(†)	A		-	-	0.965	105.58	2,528	0.267	91.41	7,537	0.689	93.19	6,557	0.611	93.19	115	0.011	93.19	6,672	0.622
7.7) DA54 EXPLOSIVE FILL IMX-101 ^{(5)(†)}	A		-	-	32.274	16.46	641,718	10.562	22.05	2,037,403	44.925	16.55	1,664,553	27.548	16.55	29,106	0.482	16.55	1,693,659	28.030
7.8) DA54 EXPLOSIVE FILL IMX-104 ^(†)	A		-	-	5.753	-	-	-	-	-	-	26.10	51,450	1.343	26.10	900	0.023	26.10	52,350	1.366
7.9) DA54 PRODUCTION ENGINEERING			-	-	0.883	-	-	0.801	-	-	0.515	-	-	0.190	-	-	-	-	-	0.190
7.10) DA54 ACCEPTANCE TESTING			-	-	1.235	-	-	0.080	-	-	0.062	-	-	0.282	-	-	0.003	-	-	0.285

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1473 / Artillery, All Types **Aggregated Items Title:** Artillery, All Types

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: 7) DA54, 155MM HE M795 W/IMX			-	-	98.448	-	-	19.231	-	-	99.819	-	-	68.656	-	-	1.196	-	-	69.852
9) PRIOR YEARS CUMULATIVE FUNDING																				
9.1) PRIOR YEARS CUMULATIVE FUNDING		A	-	-	178.365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 9) PRIOR YEARS CUMULATIVE FUNDING			-	-	178.365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	353.155	-	-	42.359	-	-	99.819	-	-	68.656	-	-	1.196	-	-	69.852

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

(†) indicates the presence of a P-5a

Footnotes:

- (1) Contract award data has been updated to reflect actual contract awards.
- (2) FY15 DA12 Container, M231 and DA12 Ignition Propellant, MACS have been furnished via existing Army stockpile.
- (3) Pricing is provided by the Army and incorporates other customer buys. The unit price fluctuates depending on the total procurement. FY 2015 DA13 Ignition Propellant, MACS and DA13 Container, M232A1 were furnished via existing Army stockpile.
- (4) Pricing is provided by the Army and incorporates other customer buys. The unit cost fluctuates depending on the total procurement.
- (5) There was a congressional reduction in FY 2015 Baseline funding to DA54 for HE M795 Explosive Fill Growth and a congressional reduction in FY 2016 Baseline funding to DA54 for HE M795 Explosive Fill Growth. The DA54 155MM HE (High Explosive) is the prime round for the LW155 (Light Weight 155MM) and the increase in FY17 Baseline 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.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Aggregated Items:				
1508N / 02 / 1			1473 / Artillery, All Types					Artillery, All Types				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) B550,CTG, 40MM BLANK SALUTING SNGL RD												
1.1) B550 LOAD, ASSEMBLY, PACK (LAP)	✓	2014	MCALISTER AAP / ROCK ISLAND ARSENAL, IL	PO	ROCK ISLAND ARSENAL, IL	May 2014	May 2015	7,278	44.79	Y		
2) C025,CTG, 75MM BLANK M337A2												
2.1) C025 LOAD, ASSEMBLE, PACK (LAP)	✓	2014	AMERICAN ORDANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Dec 2013	Apr 2015	3,161	89.85	Y		
3) D505,PROJ, 155MM, M485A2, ILLUM												
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) (1)(†)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	4,493	258.84	Y		
3.2) D505 DOWNLOAD, CLEAN AND INSPECT	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Jun 2015	Jun 2016	4,718	82.43	Y		
3.3) D505 METAL PARTS SETS	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,493	258.67	Y		
3.4) D505 ILLUM CANNISTER, 155MM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,583	312.47	Y		
3.5) D505 CANISTER MPTS ASSY, 155MM ILLUM	✓	2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	4,583	49.29	Y		
3.6) D505 CANISTER BASE ASSY, 155MM ILLUM	✓	2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	4,583	15.54	Y		
3.7) D505 M10 EXPULSION CHARGE ASSEMBLY	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,583	16.28	Y		
3.8) D505 PARACHUTE MAIN, 155MM ILLUM	✓	2015	YOLAND CORPORATION, INC / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	4,583	33.90	Y		
3.9) D505 PARACHUTE MAIN SUPPORTS, 155MM ILLUM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	18,331	3.00	Y		
3.10) D505 PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM	✓	2015	YOLAND CORPORATION, INC / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	4,583	16.90	Y		
3.11) D505 DELAY ELEMENT, 155MM ILLUM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,583	32.92	Y		
3.12) D505 WOOD PALLET (HEAT TREATED)	✓	2015	GOVERNMENT FURNISHED MATERIAL / ROCK ISLAND ARSENAL,IL	PO	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	584	86.63	Y		
4) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS												
4.1) DA12 LOAD, ASSEMBLE & PACK (LAP) (2)(†)	✓	2015	GENERAL DYNAMICS ATP / HAMPTON, AR	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2015	Mar 2017	50,160	16.32	Y		
4.2) DA12 BLACK POWDER, M231	✓	2015	GOEX INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Mar 2016	5,200	14.75	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1473 / Artillery, All Types					Aggregated Items: Artillery, All Types				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.3) DA12 PROPELLANT, PAPP7993	✓	2015	BAE SYSTEMS ORDNANCE SYSTEMS INC / RADFORD,VA	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2015	Nov 2016	177,000	8.35	Y		
4.4) DA12 COMBUSTIBLE CASES	✓	2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / FFP	PICATINNY ARSENAL, NJ	May 2015	Nov 2016	51,696	35.22	Y		
5) DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS												
5.1) DA13 LOAD, ASSEMBLE & PACK (LAP) ⁽³⁾	✓	2015	GENERAL DYNAMICS ATP / HAMPTON, AR	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2015	Mar 2017	30,900	18.54	Y		
5.2) DA13 COMBUSTIBLE CASES	✓	2015	ARMTEC DEFENSE, INC. / COACHELLA, CA	C / IDIQ	PICATINNY ARSENAL, NJ	May 2015	Nov 2016	27,024	35.92	Y		
5.3) DA13 BLACK POWDER CLASS 1 (LB)	✓	2015	GOEX INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Apr 2015	Sep 2016	5,300	14.75	Y		
5.4) DA13 PROPELLANT M31A2	✓	2015	GENERAL DYNAMICS / SALABERRY-DE-VALLEYFIELD, CANADA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	153,456	16.91	Y		
6) DA49, 155MM, IR ILLUM												
6.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	2,599	258.84	Y		
6.1) DA49 LOAD, ASSEMBLE & PACK (LAP) ^(†)	✓	2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	3,952	258.84	Y		
6.2) DA49 DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE		2015	MCALESTER AAP / MCALESTER, OK	PO	PICATINNY ARSENAL, NJ	Jun 2015	Jun 2016	2,729	82.43	Y		
6.2) DA49 DOWNLOAD, CLEAN AND INSPECT, M483 PROJECTILE	✓	2015	MCALESTER AAP / MCALESTER, OK	PO	PICATINNY ARSENAL, NJ	Jun 2015	Jun 2016	4,150	82.43	Y		
6.3) DA49 M10 EXPULSION CHARGE ASSY		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	2,651	16.28	Y		
6.3) DA49 M10 EXPULSION CHARGE ASSY	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	4,031	16.28	Y		
6.4) DA49 METAL PARTS SET		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	2,599	258.29	Y		
6.4) DA49 METAL PARTS SET	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	3,952	258.29	Y		
6.5) DA49 IR ILLUM CANISTER, 155MM		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	2,651	308.41	Y		
6.5) DA49 IR ILLUM CANISTER, 155MM	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	4,031	308.41	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1473 / Artillery, All Types					Aggregated Items: Artillery, All Types				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
6.6) DA49 PARACHUTE, MAIN		2015	NORTH AMERICAN AERODYNAMICS, INC / ROXBORO, NC	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,651	38.35	Y		
6.6) DA49 PARACHUTE, MAIN	✓	2015	NORTH AMERICAN AERODYNAMICS, INC / ROXBORO, NC	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	4,031	38.35	Y		
6.7) DA49 DELAY ELEMENT		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	2,651	32.92	Y		
6.7) DA49 DELAY ELEMENT	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IND	PO	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	4,031	32.92	Y		
6.8) DA49 CANISTER, MPTS ASSY		2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	2,651	49.29	Y		
6.8) DA49 CANISTER, MPTS ASSY	✓	2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	4,031	49.29	Y		
6.9) DA49 PARACHUTE, MAIN SUPPORTS		2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	10,604	3.00	Y		
6.9) DA49 PARACHUTE, MAIN SUPPORTS	✓	2015	CRANE ARMY AMMUNITION ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	16,142	3.00	Y		
6.10) DA49 PARACHUTE, DROGUE ASSY		2015	NORTH AMERICAN AERODYNAMICS, INC / ROXBORO, NC	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,651	15.95	Y		
6.10) DA49 PARACHUTE, DROGUE ASSY	✓	2015	NORTH AMERICAN AERODYNAMICS, INC / ROXBORO, NC	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	4,031	15.95	Y		
6.11) DA49 CANISTER, BASE ASSY		2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	2,651	15.54	Y		
6.11) DA49 CANISTER, BASE ASSY	✓	2015	WOODLAWN LLC MFG / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	4,031	15.54	Y		
6.12) DA49 WOOD PALLET (HEAT TREATED)		2015	GOVERNMENT FURNISHED MATERIAL / UNKNOWN	PO	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	338	86.63	Y		
6.12) DA49 WOOD PALLET (HEAT TREATED)	✓	2015	GOVERNMENT FURNISHED MATERIAL / UNKNOWN	PO	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	514	86.63	Y		
7) DA54, 155MM HE M795 W/IMX												
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) (4)(†)		2013	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2013	Sep 2015	37,411	325.00	Y		
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) (4)(†)	✓	2013	AMERICAN ORDNANCE / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2013	Sep 2015	39,902	325.00	Y		
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) (4)(†)		2015	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Jan 2016	Feb 2018	8,504	342.18	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1				P-1 Line Item Number / Title: 1473 / Artillery, All Types				Aggregated Items: Artillery, All Types				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) (4)(†)	✓	2015	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Jan 2016	Feb 2018	10,942	342.18	Y		
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) (4)(†)		2016	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2018	24,337	349.01	Y		
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) (4)(†)	✓	2016	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2018	35,954	349.01	Y		
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) (4)(†)		2017	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	50,441	336.44	Y		
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) (4)(†)	✓	2017	AMERICAN ORDNANCE / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	882	336.44	Y		
7.2) DA54 METAL PARTS-M795(†)		2016	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	24,337	495.32	Y		
7.2) DA54 METAL PARTS-M795(†)	✓	2016	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	35,954	495.32	Y		
7.3) M795 IM METAL PARTS(†)		2017	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	51,450	402.13	Y		
7.3) M795 IM METAL PARTS(†)	✓	2017	TO BE SELECTED / PICATINNY ARSENAL, NJ	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	900	402.13	Y		
7.4) DA54 PLUG, LIFTING, MELTABLE FOR IM		2015	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	8,674	18.53	Y		
7.4) DA54 PLUG, LIFTING, MELTABLE FOR IM	✓	2015	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	11,161	18.53	Y		
7.4) DA54 PLUG, LIFTING, MELTABLE FOR IM		2016	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	24,337	19.49	Y		
7.4) DA54 PLUG, LIFTING, MELTABLE FOR IM	✓	2016	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	35,945	19.49	Y		
7.4) DA54 PLUG, LIFTING, MELTABLE FOR IM		2017	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Sep 2018	51,450	19.87	Y		
7.4) DA54 PLUG, LIFTING, MELTABLE FOR IM	✓	2017	POLYMER TECHNOLOGIES, INC / CLIFTON,NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Sep 2018	900	19.87	Y		
7.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9		2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	8,674	25.16	Y		
7.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9	✓	2015	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	11,161	25.16	Y		
7.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9		2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	24,337	25.66	Y		
7.5) DA54 SUPPLEMENTAL CHARGE, PBXN-9	✓	2016	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	35,954	25.66	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1473 / Artillery, All Types	Aggregated Items: Artillery, All Types
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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
7.6) DA54 WOODEN PALLETS, IMX-101		2015	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	1,106	105.58	Y		
7.6) DA54 WOODEN PALLETS, IMX-101	✓	2015	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	1,422	105.58	Y		
7.6) DA54 WOODEN PALLETS, IMX-101		2016	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	3,042	91.41	Y		
7.6) DA54 WOODEN PALLETS, IMX-101	✓	2016	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	4,495	91.41	Y		
7.6) DA54 WOODEN PALLETS, IMX-101		2017	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	6,557	93.19	Y		
7.6) DA54 WOODEN PALLETS, IMX-101	✓	2017	KNOX CNTY ASSOC RETARDED CITIZENS / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	115	93.19	Y		
7.7) DA54 EXPLOSIVE FILL IMX-101 ^(t)		2015	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Dec 2016	280,632	16.46	Y		
7.7) DA54 EXPLOSIVE FILL IMX-101 ^(t)	✓	2015	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Dec 2016	361,086	16.46	Y		
7.7) DA54 EXPLOSIVE FILL IMX-101 ^(t)		2016	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	803,121	22.05	Y		
7.7) DA54 EXPLOSIVE FILL IMX-101 ^(t)	✓	2016	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	1,234,282	22.05	Y		
7.7) DA54 EXPLOSIVE FILL IMX-101 ^(t)		2017	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	1,664,553	16.55	Y		
7.7) DA54 EXPLOSIVE FILL IMX-101 ^(t)	✓	2017	BAE ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	29,106	16.55	Y		
7.8) DA54 EXPLOSIVE FILL IMX-104		2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	51,450	26.10	N		
7.8) DA54 EXPLOSIVE FILL IMX-104	✓	2017	TO BE SELECTED / UNKNOWN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	900	26.10	N		

^(t) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1473 / Artillery, All Types	Aggregated Items: Artillery, All Types
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Items <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2013												Fiscal Year 2014												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
3) D505,PROJ, 155MM, M485A2, ILLUM																															
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ⁽¹⁾																															
✓	33	2015	NAVY	.004	-	.004																							.004		
4) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS																															
4.1) DA12 LOAD, ASSEMBLE & PACK (LAP) ⁽²⁾																															
✓	34	2015	NAVY	.050	-	.050																							.050		
6) DA49, 155MM, IR ILLUM																															
6.1) DA49 LOAD, ASSEMBLE & PACK (LAP)																															
Prior Years Deliveries: 2661																															
	35	2015	NAVY	.003	-	.003																							.003		
✓	35	2015	NAVY	.004	-	.004																							.004		
7) DA54, 155MM HE M795 W/IMX																															
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ⁽⁴⁾																															
	36	2013	NAVY	.037	-	.037																							.037		
✓	36	2013	NAVY	.040	-	.040																							.040		
	36	2015	NAVY	.009	-	.009																							.009		
✓	36	2015	NAVY	.011	-	.011																							.011		
	36	2016	NAVY	.024	-	.024																							.024		
✓	36	2016	NAVY	.036	-	.036																							.036		
	36	2017	NAVY	.050	-	.050																							.050		
✓	36	2017	NAVY	*	-	*																							*		
7.2) DA54 METAL PARTS-M795																															
Prior Years Deliveries: 78859																															
	37	2016	NAVY	.024	-	.024																							.024		
✓	37	2016	NAVY	.036	-	.036																							.036		
7.3) M795 IM METAL PARTS																															
	38	2017	NAVY	.051	-	.051																							.051		
✓	38	2017	NAVY	*	-	*																							*		
7.7) DA54 EXPLOSIVE FILL IMX-101 ⁽⁵⁾																															
	39	2015	NAVY	.281	-	.281																							.281		
✓	39	2015	NAVY	.361	-	.361																							.361		
	39	2016	NAVY	.803	-	.803																							.803		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy																							Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1										P-1 Line Item Number / Title: 1473 / Artillery, All Types										Aggregated Items: Artillery, All Types												
Items (Units in Millions, * = < 500)						Fiscal Year 2015										Fiscal Year 2016										BALANCE						
OCT	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR		MAY	JUN	JUL	AUG	SEP	
3) D505, PROJ, 155MM, M485A2, ILLUM																																
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ⁽¹⁾																																
✓	33	2015	NAVY	.004	-	.004																										.004
4) DA12, CHG, 155MM, M231, MOD ARTY CHG SYS																																
4.1) DA12 LOAD, ASSEMBLE & PACK (LAP) ⁽²⁾																																
✓	34	2015	NAVY	.050	-	.050																									.050	
6) DA49, 155MM, IR ILLUM																																
6.1) DA49 LOAD, ASSEMBLE & PACK (LAP)																																
Prior Years Deliveries: 2661																																
	35	2015	NAVY	.003	-	.003																									.003	
✓	35	2015	NAVY	.004	-	.004																									.004	
7) DA54, 155MM HE M795 W/IMX																																
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ⁽⁴⁾																																
	36	2013	NAVY	.037	-	.037																									-	
✓	36	2013	NAVY	.040	-	.040																									-	
	36	2015	NAVY	.009	-	.009																										.009
✓	36	2015	NAVY	.011	-	.011																									.011	
	36	2016	NAVY	.024	-	.024																									.024	
✓	36	2016	NAVY	.036	-	.036																									.036	
	36	2017	NAVY	.050	-	.050																									.050	
✓	36	2017	NAVY	*	-	*																									*	
7.2) DA54 METAL PARTS-M795																																
Prior Years Deliveries: 78859																																
	37	2016	NAVY	.024	-	.024																									.024	
✓	37	2016	NAVY	.036	-	.036																									.036	
7.3) M795 IM METAL PARTS																																
	38	2017	NAVY	.051	-	.051																									.051	
✓	38	2017	NAVY	*	-	*																									*	
7.7) DA54 EXPLOSIVE FILL IMX-101 ⁽⁵⁾																																
	39	2015	NAVY	.281	-	.281																									.281	
✓	39	2015	NAVY	.361	-	.361																									.361	
	39	2016	NAVY	.803	-	.803																									.803	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1473 / Artillery, All Types **Aggregated Items:** Artillery, All Types

Items <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
3) D505,PROJ, 155MM, M485A2, ILLUM																															
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ⁽¹⁾																															
✓	33	2015	NAVY	.004	-	.004	-	-	-	-	-	-	.004	*															-		
4) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS																															
4.1) DA12 LOAD, ASSEMBLE & PACK (LAP) ⁽²⁾																															
✓	34	2015	NAVY	.050	-	.050	-	-	-	-	-	.030	.020																-		
6) DA49, 155MM, IR ILLUM																															
6.1) DA49 LOAD, ASSEMBLE & PACK (LAP)																															
Prior Years Deliveries: 2661																															
	35	2015	NAVY	.003	-	.003	-	-	-	-	-	.003																	-		
✓	35	2015	NAVY	.004	-	.004	-	-	-	-	-	.004																	-		
7) DA54, 155MM HE M795 W/IMX																															
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ⁽⁴⁾																															
	36	2013	NAVY	.037	.037	-																							-		
✓	36	2013	NAVY	.040	.040	-																							-		
	36	2015	NAVY	.009	-	.009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.009				-		
✓	36	2015	NAVY	.011	-	.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.011					-		
	36	2016	NAVY	.024	-	.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.005	.010	.009	-		
✓	36	2016	NAVY	.036	-	.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.005	.010	.013	.008	-		
	36	2017	NAVY	.050	-	.050																							.050		
✓	36	2017	NAVY	*	-	*																							*		
7.2) DA54 METAL PARTS-M795																															
Prior Years Deliveries: 78859																															
	37	2016	NAVY	.024	-	.024	-	-	-	-	-	-	-	-	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	-		
✓	37	2016	NAVY	.036	-	.036	-	-	-	-	-	-	-	-	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	-		
7.3) M795 IM METAL PARTS																															
	38	2017	NAVY	.051	-	.051																						.004	.004	.043	
✓	38	2017	NAVY	*	-	*																						*	-		
7.7) DA54 EXPLOSIVE FILL IMX-101 ⁽⁵⁾																															
	39	2015	NAVY	.281	-	.281	-	-	.181	.099																			-		
✓	39	2015	NAVY	.361	-	.361	-	-	.233	.128																			-		
	39	2016	NAVY	.803	-	.803	-	-	-	-	-	-	-	-	-	-	.769	.034											-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1473 / Artillery, All Types **Aggregated Items:** Artillery, All Types

Items <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE							
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018																		
							O C T	N O V	D E C	J A N	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						
✓	39	2016	NAVY	1.234	-	1.234	-	-	-	-	-	-	-	-	-	-	-	1.234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	39	2017	NAVY	1.665	-	1.665																														1.665	
✓	39	2017	NAVY	.029	-	.029																														.029	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1473 / Artillery, All Types	Aggregated Items: Artillery, All Types
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Items <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 8	BAL D U E A S O F 1 O C T	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
3) D505,PROJ, 155MM, M485A2, ILLUM																															
3.1) D505 LOAD, ASSEMBLE, PACK (LAP) ⁽¹⁾																															
✓	33	2015	NAVY	.004	.004	-																							-		
4) DA12,CHG, 155MM, M231, MOD ARTY CHG SYS																															
4.1) DA12 LOAD, ASSEMBLE & PACK (LAP) ⁽²⁾																															
✓	34	2015	NAVY	.050	.050	-																							-		
6) DA49, 155MM, IR ILLUM																															
6.1) DA49 LOAD, ASSEMBLE & PACK (LAP)																															
Prior Years Deliveries: 2661																															
	35	2015	NAVY	.003	.003	-																							-		
✓	35	2015	NAVY	.004	.004	-																							-		
7) DA54, 155MM HE M795 W/IMX																															
7.1) DA54 LOAD, ASSEMBLE, PACK (LAP) ⁽⁴⁾																															
	36	2013	NAVY	.037	.037	-																							-		
✓	36	2013	NAVY	.040	.040	-																							-		
	36	2015	NAVY	.009	.009	-																							-		
✓	36	2015	NAVY	.011	.011	-																							-		
	36	2016	NAVY	.024	.024	-																							-		
✓	36	2016	NAVY	.036	.036	-																							-		
	36	2017	NAVY	.050	-	.050	-	-	-	-	-	.014	.015	.015	.006														-		
✓	36	2017	NAVY	*	-	*	-	-	-	-	-	*																	-		
7.2) DA54 METAL PARTS-M795																															
Prior Years Deliveries: 78859																															
	37	2016	NAVY	.024	.024	-																							-		
✓	37	2016	NAVY	.036	.036	-																							-		
7.3) M795 IM METAL PARTS																															
	38	2017	NAVY	.051	.009	.043	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004												-		
✓	38	2017	NAVY	*	*	-																							-		
7.7) DA54 EXPLOSIVE FILL IMX-101 ⁽⁵⁾																															
	39	2015	NAVY	.281	.281	-																							-		
✓	39	2015	NAVY	.361	.361	-																							-		
	39	2016	NAVY	.803	.803	-																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1473 / Artillery, All Types **Aggregated Items:** Artillery, All Types

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	PINE BLUFF ARSENAL - PINE BLUFF, AR	104	208	4,000	6	6	24	30	4	3	24	27
2	GENERAL DYNAMICS ATP - HAMPTON, AR	30	50	125,000	6	6	18	24	6	6	18	24
3	PINE BLUFF ARSENAL - PINE BLUFF, AR	10,000	15,000	20,000	6	6	24	30	6	6	24	30
4	AMERICAN ORDNANCE - MIDDLETOWN, IA	12,000,000	25,000,000	35,000,000	6	6	24	30	6	6	24	30
5	TO BE SELECTED - PICATINNY ARSENAL, NJ	-	-	-	-	-	-	-	-	-	-	-
6	TO BE SELECTED - PICATINNY ARSENAL, NJ	-	-	-	-	-	-	-	-	-	-	-
7	BAE ORDNANCE SYSTEMS - KINGSPOUR, TN	-	-	-	-	-	-	-	-	-	-	-

"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 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types
---	--

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	67.082	1.255	0.518	1.700	0.261	1.961	-	0.480	0.491	0.500	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	67.082	1.255	0.518	1.700	0.261	1.961	-	0.480	0.491	0.500	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	67.082	1.255	0.518	1.700	0.261	1.961	-	0.480	0.491	0.500	Continuing	Continuing

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

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

Description:

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types
---	--

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Demolition Munitions, All Types	P-5a		- / 67.082	- / 1.255	- / 0.518	- / 1.700	- / 0.261	- / 1.961
P-40	Total Gross/Weapon System Cost			- / 67.082	- / 1.255	- / 0.518	- / 1.700	- / 0.261	- / 1.961

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

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

Justification:
 FY 2017 baseline funding increase from FY 2016 supports a known inventory shortfall in Demo Sheet, which is used by Combat Engineers in order to accomplish basic and complex breaching operations. Additionally, procurement will assist in maintaining the Industrial Base for Demolitions Munitions.

OCO:
 FY 2017 OCO funding will be used to reset munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types	Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types
---	--	--

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	67.082	1.255	0.518	1.700	0.261	1.961
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	67.082	1.255	0.518	1.700	0.261	1.961
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	67.082	1.255	0.518	1.700	0.261	1.961

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - M986 CHG, DEMO SHEET, 9FT PETN Cost																		
Recurring Cost																		
2.1.1) M986 COMPLETE ROUND ⁽¹⁾ (1)	117.37	6,245	0.733	-	-	-	266.43	972	0.259	270.02	6,295	1.700	270.02	966	0.261	270.02	7,261	1.961
<i>Subtotal: Recurring Cost</i>	-	-	0.733	-	-	-	-	-	0.259	-	-	1.700	-	-	0.261	-	-	1.961
<i>Subtotal: Hardware - M986 CHG, DEMO SHEET, 9FT PETN Cost</i>	-	-	0.733	-	-	-	-	-	0.259	-	-	1.700	-	-	0.261	-	-	1.961
Hardware - M982 Charge, Demolition Sheet 0.161 Inch Thick Cost																		
Recurring Cost																		
3.1.1) M982 Complete Round ⁽¹⁾	-	-	-	109.60	11,450	1.255	111.78	2,316	0.259	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.255	-	-	0.259	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - M982 Charge, Demolition Sheet 0.161 Inch Thick Cost</i>	-	-	-	-	-	1.255	-	-	0.259	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Non Recurring Cost																		
4.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	66.349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	66.349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types						Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost</i>	-	-	66.349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	67.082	-	-	1.255	-	-	0.518	-	-	1.700	-	-	0.261	-	-	1.961

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

Footnotes:

(1) Pricing is provided by the Army and incorporates other customer buys. The unit price fluctuates depending on the total procurement.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1500 / Demolition Munitions, All Types	Item Number / Title [DODIC]: 1 / Demolition Munitions, All Types
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.1) M986 COMPLETE ROUND	✓	2016	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Dec 2016	972	266.43	Y		
2.1.1) M986 COMPLETE ROUND		2017	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Dec 2017	6,295	270.02	Y		
2.1.1) M986 COMPLETE ROUND	✓	2017	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Dec 2017	966	270.02	Y		
3.1.1) M982 Complete Round	✓	2015	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / TBD	ROCK ISLAND ARSENAL, IL	Feb 2016	May 2016	11,450	109.60	Y		
3.1.1) M982 Complete Round	✓	2016	TO BE SELECTED / ROCK ISLAND ARSENAL, IL	C / TBD	ROCK ISLAND ARSENAL, IL	May 2016	Dec 2016	2,316	111.78	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1625 / Fuze, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	120.149	7.033	31.268	26.088	0.217	26.305	19.540	13.596	24.906	25.401	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	120.149	7.033	31.268	26.088	0.217	26.305	19.540	13.596	24.906	25.401	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	120.149	7.033	31.268	26.088	0.217	26.305	19.540	13.596	24.906	25.401	Continuing	Continuing

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

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

Description:

The XM1156 PGK Fuze is a deep intrusion precision guided fuze, designed for use with the M795 High Explosive (HE) and M549A1 High Explosive Rocket Assisted (HERA) projectiles in the M777A2 155mm Howitzer. It is intended to be used against normal HE target sets. The XM1156 PGK Fuze will only be set with the M1155A1 Enhanced Portable Inductive Artillery Fuze Setter (EPIAFS). The fuze modes for the XM1156 PGK Fuze include Point Detonating (PD) and Proximity (VT). The XM1156 PGK Fuze weighs 4.6 pounds (2.09 kilograms) with the canard cover in place and is 11.93 inches (30.3 centimeters) long with the canard cover in place. It contains a Height of Burst (HOB) sensor and Global Positioning System (GPS).

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1625 / Fuze, All Types
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Fuze, All Types	P-5a, P-21		- / 120.149	- / 7.033	- / 31.268	- / 26.088	- / 0.217	- / 26.305
P-40	Total Gross/Weapon System Cost			- / 120.149	- / 7.033	- / 31.268	- / 26.088	- / 0.217	- / 26.305

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

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

Justification:
 FY 2017 baseline funding will be used to procure the Precision Guidance Kit (PGK). This technology is state-of-the-art and provides a first-of-its-kind "near-precision" capability. PGK contains a Global Positioning System (GPS) guidance kit with fuzing functions and an integrated GPS receiver to correct the inherent errors associated with ballistic firing solutions. The PGK capability is essential to providing operational commanders the ability to engage assigned targets, rapidly achieve desired effects while minimizing collateral damage and reducing the number of artillery projectiles required to attack targets.

OCO:
 FY 2017 OCO funding will be used to reset munitions expended in support of Operation Enduring Freedom (OEF)/ Operation Freedom's Sentinel (OFS).

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1625 / Fuze, All Types	Item Number / Title [DODIC]: 1 / Fuze, All Types

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	120.149	7.033	31.268	26.088	0.217	26.305
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	120.149	7.033	31.268	26.088	0.217	26.305
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	120.149	7.033	31.268	26.088	0.217	26.305

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)

Hardware - N340 FUZE PD M739A1 Cost

Recurring Cost																		
1.1.1) N340 COMPLETE ROUND ^(†)	50.52	659,210	33.300	72.48	20,003	1.450	76.21	119,298	9.092	-	-	-	-	-	-	-	-	-
1.1.2) N340 PRODUCTION ENGINEERING	-	-	2.494	-	-	0.493	-	-	0.305	-	-	-	-	-	-	-	-	-
1.1.3) N340 ACCEPTANCE TESTING	-	-	2.468	-	-	0.118	-	-	0.603	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	38.262	-	-	2.061	-	-	10.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - N340 FUZE PD M739A1 Cost</i>	-	-	38.262	-	-	2.061	-	-	10.000	-	-	-	-	-	-	-	-	-

Hardware - NA29 PRECISION GUIDED KIT (NPGK) Cost

Recurring Cost																		
2.1.1) NA29 COMPLETE FUZE ^(†) (1)	11,088.52	6,586	73.029	8,017.77	606	4.859	9,558.00	2,070	19.785	9,267.00	2,494	23.112	9,267.00	23	0.213	9,267.00	2,517	23.325
2.1.2) NA29 PRODUCTION ENGINEERING	-	-	4.293	-	-	-	-	-	0.708	-	-	1.419	-	-	-	-	-	1.419
2.1.3) NA29 ACCEPTANCE TESTING	-	-	2.390	-	-	0.113	-	-	0.478	-	-	0.843	-	-	0.004	-	-	0.847

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1						P-1 Line Item Number / Title: 1625 / Fuze, All Types						Item Number / Title [DODIC]: 1 / Fuze, All Types					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1.4) NA29 ENGINEER CHANGE PROPOSAL	-	-	1.300	-	-	-	-	-	0.297	-	-	0.714	-	-	-	-	-	0.714
<i>Subtotal: Recurring Cost</i>	-	-	81.012	-	-	4.972	-	-	21.268	-	-	26.088	-	-	0.217	-	-	26.305
<i>Subtotal: Hardware - NA29 PRECISION GUIDED KIT (NPGK) Cost</i>	-	-	81.012	-	-	4.972	-	-	21.268	-	-	26.088	-	-	0.217	-	-	26.305
Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost																		
Recurring Cost																		
3.1.1) Prior Years Cumulative Funding	-	-	0.875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - PRIOR YEARS CUMULATIVE FUNDING Cost</i>	-	-	0.875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	120.149	-	-	7.033	-	-	31.268	-	-	26.088	-	-	0.217	-	-	26.305

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

Footnotes:

(1) There was a congressional reduction in FY 2015 and FY 2016 Baseline funding to NA29 for Precision Guided Kit Contract Delay. Pricing is provided by the Army Single Manager for Conventional Ammunition (SMCA) and incorporates other service buys. The unit cost will fluctuate depending on the total procurement. Production engineering, acceptance testing and engineer change proposal increases in FY 2017 are to support the planned delivery schedule.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1625 / Fuze, All Types	Item Number / Title [DODIC]: 1 / Fuze, All Types
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) N340 COMPLETE ROUND ^(†)		2013	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2014	Sep 2015	3,811	80.04	Y		
1.1.1) N340 COMPLETE ROUND ^(†)	✓	2013	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2014	Sep 2015	60,136	80.04	Y		
1.1.1) N340 COMPLETE ROUND ^(†)		2014	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2014	Apr 2016	34,465	71.23	Y		
1.1.1) N340 COMPLETE ROUND ^(†)	✓	2014	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2014	Jul 2016	191,400	71.23	Y		
1.1.1) N340 COMPLETE ROUND ^(†)	✓	2015	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2015	Dec 2017	20,003	72.48	Y		
1.1.1) N340 COMPLETE ROUND ^(†)		2016	ACTION MANUFACTURING INC / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL	Mar 2016	Sep 2018	119,298	76.21	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)	✓	2013	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Aug 2013	Sep 2016	2,109	10,651.00	Y		
2.1.1) NA29 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) NA29 COMPLETE FUZE ^(†)		2015	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Feb 2015	Nov 2016	606	8,017.77	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)		2016	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL	Mar 2016	Oct 2017	1,738	9,558.00	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)	✓	2016	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Mar 2016	Oct 2017	332	9,558.00	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)		2017	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Mar 2017	Apr 2018	2,494	9,267.00	Y		
2.1.1) NA29 COMPLETE FUZE ^(†)	✓	2017	ALLIANT TECH SYSTEMS INC / PLYMOUTH, MN	SS / FFP	PICATINNEY ARSENAL	Mar 2017	Apr 2018	23	9,267.00	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1625 / Fuze, All Types **Item Number / Title [DODIC]:** 1 / Fuze, All Types

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2013												Fiscal Year 2014												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

1.1.1) N340 COMPLETE ROUND

Prior Years Deliveries: 369398

O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT													BALANCE
	1	2013	NAVY	3.811	-	3.811													3.811
✓	1	2013	NAVY	60.136	-	60.136													60.136
	1	2014	NAVY	34.465	-	34.465													34.465
✓	1	2014	NAVY	191.400	-	191.400													191.400
✓	1	2015	NAVY	20.003 (2)	-	20.003													20.003
	1	2016	NAVY	119.298	-	119.298													119.298

2.1.1) NA29 COMPLETE FUZE (1)

Prior Years Deliveries: 2292

O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	BALANCE
✓	2	2013	NAVY	2.109	-	2.109													A -	-	-	-	-	-	-	-	-	-	-	2.109	
	2	2014	NAVY	2.185	-	2.185													2.185												
	2	2015	NAVY	.606	-	.606													.606												
	2	2016	NAVY	1.738	-	1.738													1.738												
✓	2	2016	NAVY	.332	-	.332													.332												
✓	2	2017	NAVY	2.494	-	2.494													2.494												
✓	2	2017	NAVY	.023	-	.023													.023												

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1625 / Fuze, All Types **Item Number / Title [DODIC]:** 1 / Fuze, All Types

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2015													Fiscal Year 2016													BALANCE							
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
1.1.1) N340 COMPLETE ROUND																																						
Prior Years Deliveries: 369398																																						
	1	2013	NAVY	3.811	-	3.811	-	-	-	-	-	-	-	-	-	-	-	3.811																				
✓	1	2013	NAVY	60.136	-	60.136	-	-	-	-	-	-	-	-	-	-	-	15.000	15.000	15.000	15.136																	
	1	2014	NAVY	34.465	-	34.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	10.000	10.000	4.465										
✓	1	2014	NAVY	191.400	-	191.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.050	28.000	28.000	128.350							
✓	1	2015	NAVY	20.003 (2)	-	20.003												A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.003		
	1	2016	NAVY	119.298	-	119.298																															119.298	
2.1.1) NA29 COMPLETE FUZE (1)																																						
Prior Years Deliveries: 2292																																						
✓	2	2013	NAVY	2.109	-	2.109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.749	1.360			
	2	2014	NAVY	2.185	-	2.185																																
	2	2015	NAVY	.606	-	.606																														.606		
	2	2016	NAVY	1.738	-	1.738																														1.738		
✓	2	2016	NAVY	.332	-	.332																														.332		
	2	2017	NAVY	2.494	-	2.494																														2.494		
✓	2	2017	NAVY	.023	-	.023																														.023		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1625 / Fuze, All Types **Item Number / Title [DODIC]:** 1 / Fuze, All Types

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2017													Fiscal Year 2018												BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
1.1.1) N340 COMPLETE ROUND																																
Prior Years Deliveries: 369398																																
	1	2013	NAVY	3.811	3.811	-																							-			
✓	1	2013	NAVY	60.136	60.136	-																							-			
	1	2014	NAVY	34.465	34.465	-																							-			
✓	1	2014	NAVY	191.400	63.050	128.350	28.000	28.000	32.350	40.000																			-			
✓	1	2015	NAVY	20.003 (2)	-	20.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.000	5.000	5.000	5.003					-			
	1	2016	NAVY	119.298	-	119.298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.000	114.298				
2.1.1) NA29 COMPLETE FUZE (1)																																
Prior Years Deliveries: 2292																																
✓	2	2013	NAVY	2.109	.749	1.360	.800	.560																					-			
	2	2014	NAVY	2.185	2.185	-																							-			
	2	2015	NAVY	.606	-	.606	-	.177	.177	.177	.075																		-			
	2	2016	NAVY	1.738	-	1.738	-	-	-	-	-	-	-	-	-	-	.290	.290	.290	.290	.289	.289							-			
✓	2	2016	NAVY	.332	-	.332	-	-	-	-	-	-	-	-	-	-	.056	.056	.055	.055	.055	.055							-			
	2	2017	NAVY	2.494	-	2.494						A -	-	-	-	-	-	-	-	-	-	-	-	.292	.500	.500	.500	.452	.250	-		
✓	2	2017	NAVY	.023	-	.023						A -	-	-	-	-	-	-	-	-	-	-	.023						-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1625 / Fuze, All Types **Item Number / Title [DODIC]:** 1 / Fuze, All Types

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2019												Fiscal Year 2020												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
1.1.1) N340 COMPLETE ROUND																															
Prior Years Deliveries: 369398																															
	1	2013	NAVY	3.811	3.811	-																							-		
✓	1	2013	NAVY	60.136	60.136	-																							-		
	1	2014	NAVY	34.465	34.465	-																							-		
✓	1	2014	NAVY	191.400	191.400	-																							-		
✓	1	2015	NAVY	20.003 ⁽²⁾	20.003	-																							-		
	1	2016	NAVY	119.298	5.000	114.298	20.000	20.000	20.000	20.000	20.000	14.298																	-		
2.1.1) NA29 COMPLETE FUZE ⁽¹⁾																															
Prior Years Deliveries: 2292																															
✓	2	2013	NAVY	2.109	2.109	-																							-		
	2	2014	NAVY	2.185	2.185	-																							-		
	2	2015	NAVY	.606	.606	-																							-		
	2	2016	NAVY	1.738	1.738	-																							-		
✓	2	2016	NAVY	.332	.332	-																							-		
	2	2017	NAVY	2.494	2.494	-																							-		
✓	2	2017	NAVY	.023	.023	-																							-		

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Exhibit P-21, Production Schedule: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1625 / Fuze, All Types	Item Number / Title [DODIC]: 1 / Fuze, All Types
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	ACTION MANUFACTURING INC - PHILADELPHIA, PA	200,000	400,000	800,000	6	6	36	42	-	-	18	18
2	ALLIANT TECH SYSTEMS INC - PLYMOUTH, MN	300	1,100	2,550	13	9	20	29	12	6	10	16

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

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

Footnotes:

⁽²⁾ This does not include other services production deliveries.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1628 / Non Lethals
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10.890	1.098	3.868	-	-	-	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	10.890	1.098	3.868	-	-	-	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10.890	1.098	3.868	-	-	-	-	-	-	-	Continuing	Continuing

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

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

Description:

Non-Lethal Munition All Types includes: 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.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1628 / Non Lethals
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Non Lethals	P-5a		- / 10.890	- / 1.098	- / 3.868	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 10.890	- / 1.098	- / 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 sum exactly due to rounding.

Justification:
 Mission Payload Module (MPMN) weapon system requires additional development prior to production of the ammunition. FY 2017 funds have been realigned to LI 1471 Rocket, All Types to procure the HX07 Rocket, 83MM HEAA Practice Round in support of this high priority program.

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Exhibit P-5, Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1628 / Non Lethals	Item Number / Title [DODIC]: 1 / Non Lethals
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	10.890	1.098	3.868	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	10.890	1.098	3.868	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	10.890	1.098	3.868	-	-	-

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - AA51, CTG, 12 GAUGE NON-LETHAL POINT CONTROL Cost																		
Recurring Cost																		
1.1.1) AA51, 12 GAUGE NON-LETHAL, PRODUCTION ENGINEERING ⁽¹⁾	-	-	0.065	-	-	0.610	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.065</i>	-	-	<i>0.610</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - AA51, CTG, 12 GAUGE NON-LETHAL POINT CONTROL Cost</i>	-	-	<i>0.065</i>	-	-	<i>0.610</i>	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - BA06, CTG 40MM XM/M1006, NON-LETHAL (SPONGE GR) Cost																		
Recurring Cost																		
2.1.1) BA06, 40MM NON-LETHAL, COMPLETE ROUND	-	-	0.749	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) BA06, 40MM NON-LETHAL, PRODUCTION ENGINEERING ⁽²⁾	-	-	0.110	-	-	0.238	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.859</i>	-	-	<i>0.238</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - BA06, CTG 40MM XM/M1006, NON-LETHAL (SPONGE GR) Cost</i>	-	-	<i>0.859</i>	-	-	<i>0.238</i>	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - GG04, GRENADE, HAND, RUBBER BALL NON-LETHAL Cost																		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1628 / Non Lethals	Item Number / Title [DODIC]: 1 / Non Lethals

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
3.1.1) GG04, GRENADE, HAND, RUBBER BALL, COMPLETE ROUND ^(†)	19.66	189,236	3.721	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) GG04, GRENADE, HAND, RUBBER BALL, PRODUCTION ENGINEERING ⁽³⁾	-	-	-	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	3.721	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - GG04, GRENADE, HAND, RUBBER BALL NON-LETHAL Cost</i>	-	-	3.721	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - MPMN, MISSION PAYLOAD MODULE NON-LETHAL Cost																		
Recurring Cost																		
4.1.1) MPMN, MISSION PAYLOAD MODULE, COMPLETE ROUND	-	-	-	-	-	-	-	-	3.868	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	3.868	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - MPMN, MISSION PAYLOAD MODULE NON-LETHAL Cost</i>	-	-	-	-	-	-	-	-	3.868	-	-	-	-	-	-	-	-	-
Hardware - PRIOR YEAR CUMULATIVE Cost																		
Recurring Cost																		
5.1.1) PRIOR YEARS CUMULATIVE FUNDING	-	-	6.245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	6.245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - PRIOR YEAR CUMULATIVE Cost</i>	-	-	6.245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	10.890	-	-	1.098	-	-	3.868	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

Footnotes:

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1	P-1 Line Item Number / Title: 1628 / Non Lethals	Item Number / Title [DODIC]: 1 / Non Lethals
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(1) FY15 AA51 funding was realigned to production support due to uneconomical buy.</p> <p>(2) Funds provided to the Single Manager for Conventional Ammunition (SMCA) to support engineering support cost for undelivered 12 Gauge Non-Lethal rounds delivering in FY 2015.</p> <p>(3) Funds provided to the Single Manager for Conventional Ammunition (SMCA) to support engineering support cost for undelivered Non-Lethal Rubber Ball Grenades delivering in FY 2015.</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1			P-1 Line Item Number / Title: 1628 / Non Lethals					Item Number / Title [DODIC]: 1 / Non Lethals				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.1) GG04, GRENADE, HAND, RUBBER BALL, 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, GRENADE, HAND, RUBBER BALL, COMPLETE ROUND	✓	2012	COMBINED SYSTEMS INC. / JAMESTOWN, NY	C / FFP	ARDEC, PICATINNY, NJ	Mar 2012	May 2015	37,473	19.00	Y		
3.1.1) GG04, GRENADE, HAND, RUBBER BALL, COMPLETE ROUND		2013	COMBINED SYSTEMS INC. / JAMESTOWN, NY	C / FFP	ARDEC, PICATINNY, NJ	Mar 2013	May 2016	14,267	27.81	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1630 / Ammo Modernization
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	41.449	11.319	13.322	14.660	-	14.660	17.731	17.333	16.903	17.239	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	41.449	11.319	13.322	14.660	-	14.660	17.731	17.333	16.903	17.239	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	41.449	11.319	13.322	14.660	-	14.660	17.731	17.333	16.903	17.239	Continuing	Continuing

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

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

Description:

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 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1630 / Ammo Modernization
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Ammo Modernization			- / 41.449	- / 11.319	- / 13.322	- / 14.660	- / -	- / 14.660
P-40	Total Gross/Weapon System Cost			- / 41.449	- / 11.319	- / 13.322	- / 14.660	- / -	- / 14.660

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
 The FY 2017 funding request was reduced by \$1.928M to account for the availability of prior year execution balances.

In FY 2017 Ammunition Modernization funding will support the modernization of ammunition including, rockets, line charges, components, missiles and quality evaluation. Funding will support the efforts associated with service life accelerated age testing, malfunctions, and quality assurance. The quality assurance program ascertains the safety, reliability, performance, and combat readiness of ammunition assets. Ammo modernization addresses life cycle management of ammunition through cyclic tests, surveillance, and destructive testing (degradation and trends).

The increase in funding from FY16 to FY17 supports increases in the level of effort to modernize ammunition in 40mm and line charges. The USMC has experienced historically high procurements of ammunition and as result has a robust stockpile. With its procurement dollars reduced it is necessary to protect its previous investments with an appropriate surveillance, quality assurance and maintenance program. This funding supports these life cycle management functions to maintain the USMC ammunition inventory through quality assurance programs which are vital to predicting service life trends and keeping the warfighter safe during training and operational scenarios.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1630 / Ammo Modernization **Aggregated Items Title:** Ammo Modernization

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Ammo Modernization ⁽¹⁾																				
1.1) AM01, 40MM AMMO MOD	A		-	-	5.277	-	-	1.538	-	-	1.736	-	-	2.377	-	-	-	-	-	2.377
1.2) AM02, ROCKETS AMMO MOD	A		-	-	6.619	-	-	2.553	-	-	2.348	-	-	2.342	-	-	-	-	-	2.342
1.3) AM03, LINE CHARGE AMMO MOD	A		-	-	5.237	-	-	1.912	-	-	1.993	-	-	2.726	-	-	-	-	-	2.726
1.4) AM04, COMPONENTS AMMO MOD	A		-	-	5.234	-	-	2.306	-	-	2.416	-	-	2.410	-	-	-	-	-	2.410
1.5) AM05, MISSILE COMP AMMO MOD	A		-	-	4.934	-	-	1.956	-	-	2.583	-	-	2.556	-	-	-	-	-	2.556
1.6) AM06, QUAL EVAL AMMO MOD	A		-	-	14.086	-	-	1.040	-	-	2.246	-	-	2.249	-	-	-	-	-	2.249
1.7) AMMO, AMMO MOD	A		-	-	0.062	-	-	0.014	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Ammo Modernization			-	-	41.449	-	-	11.319	-	-	13.322	-	-	14.660	-	-	-	-	-	14.660
Total			-	-	41.449	-	-	11.319	-	-	13.322	-	-	14.660	-	-	-	-	-	14.660

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

Footnotes:

⁽¹⁾ There was a congressional reduction in FY15 Baseline funding for Program Growth. There was a congressional reduction in FY16 Baseline funding for Program Growth. The funding increase from FY16 to FY17 supports increases in the level of effort to modernize ammunition in 40MM and Line Charges.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1660 / Items less than \$5 million
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	35.605	11.549	11.219	8.569	-	8.569	13.111	12.697	11.793	12.027	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	35.605	11.549	11.219	8.569	-	8.569	13.111	12.697	11.793	12.027	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	35.605	11.549	11.219	8.569	-	8.569	13.111	12.697	11.793	12.027	Continuing	Continuing

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

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

Description:

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 1: Marine Corps Ammunition	P-1 Line Item Number / Title: 1660 / Items less than \$5 million
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Items less than \$5 million			- / 35.605	- / 11.549	- / 11.219	- / 8.569	- / -	- / 8.569
P-40	Total Gross/Weapon System Cost			- / 35.605	- / 11.549	- / 11.219	- / 8.569	- / -	- / 8.569

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
 The FY2017 funding request was reduced by \$2.810M to account for the availability of prior year execution balances.

FY 2017 Baseline funds will procure match ammunition and components for the Marine Corps Rifle Team. Funds will also provide First Destination Transportation (FDT) of items delivering in FY 2017 and fund Marine Security Guard Battalion (MSGB) ammunition requirements procured through the U.S. State Department.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 02 / 1 **P-1 Line Item Number / Title:** 1660 / Items less than \$5 million **Aggregated Items Title:** Items less than \$5 million

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1) Items Less than \$5M																				
1.1) A001, RIFLE TEAM AMMUNITION	A		-	-	0.229	-	-	0.197	-	-	0.197	-	-	0.226	-	-	-	-	-	0.226
1.2) DRUG INT. DRUG INTERDICTION	A		-	-	2.689	-	-	0.371	-	-	-	-	-	-	-	-	-	-	-	-
1.3) FDTG, FIRST DESTINATION TRANSPORTATION CHARGE			-	-	25.887	-	-	9.569	-	-	9.533	-	-	6.846	-	-	-	-	-	6.846
1.4) MSGB, MARINE SECURITY GUARD BATTALION AMMO	A		-	-	2.600	-	-	1.412	-	-	1.489	-	-	1.497	-	-	-	-	-	1.497
1.5) NON-DISTR, Special Purpose MAGTF-Crisis Response	A		-	-	4.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Items Less than \$5M			-	-	35.605	-	-	11.549	-	-	11.219	-	-	8.569	-	-	-	-	-	8.569
Total			-	-	35.605	-	-	11.549	-	-	11.219	-	-	8.569	-	-	-	-	-	8.569

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

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