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

February 2016



Army

*Justification Book of
Procurement of Ammunition, Army*

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The following Justification Books were prepared at a cost of \$1,209,553: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 - Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 6, and Budget Activity 7.

PROCUREMENT OF AMMUNITION ARMY

Appropriation Language

For construction, procurement, production, modification, and modernization of ammunition, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities, authorized by Sec 2854 of Title 10, United States Code, and land necessary therefore, for the foregoing purposes, and such lands and interest 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, Base \$1,513,157 and OCO \$301,523 to remain available for obligation until September 30, 2019.

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Industrial Facilities	EP1000	32	02	10.....	562
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Mines & Clearing Charges, All Types	EA0800	17	01	43.....	387
Non-Lethal Ammunition, All Types	E91901	27	01	50.....	535
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Rocket, Hydra 70, All Types	E37300	20	01	45.....	420
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Department of the Army
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

21 Jan 2016

Appropriation	FY 2015 (Base & OCO)	FY 2016 Base Enacted	FY 2016 OCO Enacted	FY 2016 Total Enacted
Procurement of Ammunition, Army	1,156,088	1,245,426	222,040	1,467,466
Total Department of the Army	1,156,088	1,245,426	222,040	1,467,466

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Department of the Army
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 (Dollars in Thousands)

21 Jan 2016

Appropriation	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement of Ammunition, Army	1,513,157	301,523	1,814,680
Total Department of the Army	1,513,157	301,523	1,814,680

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Department of the Army
 FY 2017 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

21 Jan 2016

Appropriation: Procurement of Ammunition, Army

Budget Activity -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
01. Ammunition	887,963	906,898	192,040	1,098,938
02. Ammunition Production Base Support	268,125	338,528	30,000	368,528
Total Procurement of Ammunition, Army	1,156,088	1,245,426	222,040	1,467,466

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Department of the Army
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 (Dollars in Thousands)

21 Jan 2016

Appropriation: Procurement of Ammunition, Army

Budget Activity	FY 2017 Base	FY 2017 OCO	FY 2017 Total
01. Ammunition	1,129,859	301,523	1,431,382
02. Ammunition Production Base Support	383,298		383,298
Total Procurement of Ammunition, Army	1,513,157	301,523	1,814,680

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

21 Jan 2016

Appropriation: 2034A Procurement of Ammunition, Army

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: Ammunition											
Small/Medium Cal Ammunition											
1	Ctg, 5.56mm, All Types	A		29,943		43,489				43,489	U
2	CTG, 7.62mm, All Types	A		12,418		40,715				40,715	U
3	CTG, Handgun, All Types	A		9,655		6,801				6,801	U
4	CTG, .50 Cal, All Types	A		26,124		24,728		4,000		28,728	U
5	CTG, 20mm, All Types	A									U
6	CTG, 25mm, All Types	A		8,181		8,305				8,305	U
7	CTG, 30mm, All Types	A		87,667		34,330				34,330	U
8	CTG, 40mm, All Types	A		49,084		72,972				72,972	U
Mortar Ammunition											
9	60MM Mortar, All Types			51,649		42,898		11,700		54,598	U
10	81MM Mortar, All Types			42,433		43,500		4,000		47,500	U
11	120MM Mortar, All Types	A		39,365		64,372		7,000		71,372	U
Tank Ammunition											
12	Cartridges, Tank, 105MM and 120MM, All Types	A		101,900		105,541				105,541	U
Artillery Ammunition											
13	Artillery Cartridges, 75MM & 105MM, All Types	A		40,548		57,756		5,000		62,756	U
14	Artillery Projectile, 155MM, All Types			64,023		77,995		10,000		87,995	U
15	Proj 155mm Extended Range M982	A		35,672		65,518				65,518	U
16	Artillery Propellants, Fuzes and Primers, All	A		83,293		78,024		2,000		80,024	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 21, 2016 at 13:02:54

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

21 Jan 2016

Appropriation: 2034A Procurement of Ammunition, Army

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: Ammunition									
Small/Medium Cal Ammunition									
1	Ctg, 5.56mm, All Types	A		40,296			40,296		U
2	CTG, 7.62mm, All Types	A		39,237		9,642	48,879		U
3	CTG, Handgun, All Types	A		5,193			5,193		U
4	CTG, .50 Cal, All Types	A		46,693		6,607	53,300		U
5	CTG, 20mm, All Types	A		7,000		1,077	8,077		U
6	CTG, 25mm, All Types	A		7,753		28,534	36,287		U
7	CTG, 30mm, All Types	A		47,000		20,000	67,000		U
8	CTG, 40mm, All Types	A		118,178		7,423	125,601		U
Mortar Ammunition									
9	60MM Mortar, All Types			69,784		10,000	79,784		U
10	81MM Mortar, All Types			36,125		2,677	38,802		U
11	120MM Mortar, All Types	A		69,133			69,133		U
Tank Ammunition									
12	Cartridges, Tank, 105MM and 120MM, All Types	A		120,668		8,999	129,667		U
Artillery Ammunition									
13	Artillery Cartridges, 75MM & 105MM, All Types	A		64,800			64,800		U
14	Artillery Projectile, 155MM, All Types			109,515		30,348	139,863		U
15	Proj 155mm Extended Range M982	A		39,200		140	39,340		U
16	Artillery Propellants, Fuzes and Primers, All	A		70,881		29,655	100,536		U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 21, 2016 at 13:02:54

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 (Dollars in Thousands)

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Appropriation: 2034A Procurement of Ammunition, Army

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO) Quantity Cost	FY 2016 Base Enacted Quantity Cost	FY 2016 OCO Enacted Quantity Cost	FY 2016 Total Enacted Quantity Cost	S e c
Mines							
17	Mines & Clearing Charges, All Types						U
Networked Munitions							
18	Spider Network Munitions, All Types						U
Rockets							
19	Shoulder Launched Munitions, All Types	A	945	7,500		7,500	U
20	Rocket, Hydra 70, All Types	A	94,191	33,653	136,340	169,993	U
Other Ammunition							
21	CAD/PAD, All Types	A	5,430	5,639		5,639	U
22	Demolition Munitions, All Types	A	23,673	9,751	4,000	13,751	U
23	Grenades, All Types	A	23,751	19,993		19,993	U
24	Signals, All Types	A	12,082	9,761	8,000	17,761	U
25	Simulators, All Types	A	8,287	9,749		9,749	U
Miscellaneous							
26	Ammo Components, All Types	A	3,594	3,521		3,521	U
27	Non-Lethal Ammunition, All Types	A		1,700		1,700	U
28	Items Less Than \$5 Million (AMMO)	A	6,670	6,181		6,181	U
29	Ammunition Peculiar Equipment	A	12,925	17,811		17,811	U
30	First Destination Transportation (AMMO)	A	14,349	14,695		14,695	U
31	Closeout Liabilities		111				U
Total Ammunition			887,963	906,898	192,040	1,098,938	

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 21, 2016 at 13:02:54

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 (Dollars in Thousands)

21 Jan 2016

Appropriation: 2034A Procurement of Ammunition, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Mines									
17	Mines & Clearing Charges, All Types					16,866		16,866	U
Networked Munitions									
18	Spider Network Munitions, All Types					10,353		10,353	U
Rockets									
19	Shoulder Launched Munitions, All Types	A		38,000		63,210		101,210	U
20	Rocket, Hydra 70, All Types	A		87,213		42,851		130,064	U
Other Ammunition									
21	CAD/PAD, All Types	A		4,914				4,914	U
22	Demolition Munitions, All Types	A		6,380		6,373		12,753	U
23	Grenades, All Types	A		22,760		4,143		26,903	U
24	Signals, All Types	A		10,666		1,852		12,518	U
25	Simulators, All Types	A		7,412				7,412	U
Miscellaneous									
26	Ammo Components, All Types	A		12,726				12,726	U
27	Non-Lethal Ammunition, All Types	A		6,100		773		6,873	U
28	Items Less Than \$5 Million (AMMO)	A		10,006				10,006	U
29	Ammunition Peculiar Equipment	A		17,275				17,275	U
30	First Destination Transportation (AMMO)	A		14,951				14,951	U
31	Closeout Liabilities								U
Total Ammunition				1,129,859		301,523		1,431,382	

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 21, 2016 at 13:02:54

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 Total Obligational Authority
 (Dollars in Thousands)

21 Jan 2016

Appropriation: 2034A Procurement of Ammunition, Army

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 02: Ammunition Production Base Support											

Production Base Support											
32	Industrial Facilities			148,092		221,703				221,703	U
33	Conventional Munitions Demilitarization			117,529		113,250		30,000		143,250	U
34	Arms Initiative			2,504		3,575				3,575	U
Total Ammunition Production Base Support				268,125		338,528		30,000		368,528	
Total Procurement of Ammunition, Army				1,156,088		1,245,426		222,040		1,467,466	

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

21 Jan 2016

Appropriation: 2034A Procurement of Ammunition, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	FY 2017 Base Cost	FY 2017 OCO Quantity	FY 2017 OCO Cost	FY 2017 Total Quantity	FY 2017 Total Cost	See
Budget Activity 02: Ammunition Production Base Support									

Production Base Support									
32	Industrial Facilities			222,269				222,269	U
33	Conventional Munitions Demilitarization			157,383				157,383	U
34	Arms Initiative			3,646				3,646	U
Total Ammunition Production Base Support				383,298				383,298	
Total Procurement of Ammunition, Army				1,513,157		301,523		1,814,680	

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	1,679.641	29.943	43.489	40.296	-	40.296	40.465	39.743	62.021	62.651	-	1,998.249
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,679.641	29.943	43.489	40.296	-	40.296	40.465	39.743	62.021	62.651	-	1,998.249
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,679.641	29.943	43.489	40.296	-	40.296	40.465	39.743	62.021	62.651	-	1,998.249

(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 budget line includes 5.56MM ALL TYPES.

(E01000) 5.56mm High Pressure Test (HPT) round is used for proofing 5.56mm weapon barrels. The cartridge case is stannic stained (silver). This round is required for testing the 5.56mm M16 and M4 family of weapons during manufacturing, test or repair. This item is Code A, approved for service use.

(E01100) 5.56mm, M200 Blank Cartridge is used for training and ceremonial purposes without blank firing attachment (BFA) and in M16A2/A4 Series Rifles and M4 Carbine fitted with BFA. This item is Code A, approved for service use.

(E01101) 5.56mm Blank M200 Linked cartridge consists of a brass cartridge case with primer and propellant sealed with a rosette crimp. This cartridge is used in the M249 Squad Automatic Weapon (SAW) Machine Gun and it is designed to simulate firing during training exercises. The M27 metallic link is merely a scaled-down version of the highly successful 7.62mm M13 one-piece link. This item is Code A, approved for service use.

(E04607) 5.56mm M855A1 Ball Cartridges and M856A1 Tracer Cartridges are linked in a 4-Ball/1-Tracer configuration with the M27 link for use in the M249 Machine Gun. The M855A1 Ball Cartridge has a steel penetrator and non-lead slug surrounded by a copper jacket. The M856A1 Tracer Cartridge is lead free and provides a visible red light signature through its trajectory. This item is Code A, approved for service use.

(E04608) 5.56mm M856A1 Tracer Bullet is lead free and provides a visible red light signature through its trajectory. The bullet is used in M16 and M4 Rifles/Carbines. This item is Code A, approved for service use.

(E95400) 5.56mm, M855A1 Ball Cartridge has a bullet with a conical steel insert and a non-lead slug in a copper alloy jacket. The cartridge is used in M16A2/A4 Rifles and M4/M4A1 Carbines. This cartridge is packed in bandoleer's in standard military can pack. This item is Code A, approved for service use.

(E95700) 5.56mm, M855A1 Ball Cartridge has a bullet with a conical steel insert and a non-lead slug in a copper alloy jacket. The cartridge is used in M16A2/A4 Rifles and M4/M4A1 Carbines. This cartridge is packed without bandoleer in standard military can pack. This item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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	

(E96110) 5.56mm, Marking Blue M1042 is used for force-on-force training engagements. The cartridge can be fired with the existing M4 Carbine and M16A2/A3/A4 Rifles with the use of a conversion bolt. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.

(E96111) 5.56mm, Marking Red, M1042 is used for force-on-force training engagements. The cartridge can be fired with the existing M4 Carbine and M16A2/A3/A4 Rifles with the use of a conversion bolt. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.

(E96120) 5.56mm, Marking Blue, M1071 is used for force-on-force training engagements. The cartridge can be fired with the existing M249 Squad Automatic Weapon with the use of the conversion kit. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.

(E96121) 5.56mm, Marking Red, M1071 is used for force-on-force training engagements. The cartridge can be fired with the existing M249 Squad Automatic Weapon with the use of the conversion kit. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.

(E96125) 5.56mm Short Range Training M1037 clipped round will be used in live fire training scenarios. The M1037 clipped round permits training in adjacent training areas due to its reduced Surface Danger Zone (SDZ) and can be fired with existing M4 weapons. This round is used for Military Operations/Urban Terrain (MOUT) operational training. This item is Code A, approved for service use.

(E96126) 5.56mm Short Range Training Ammunition (SRTA) M1037 linked round will be used in live fire training scenarios. The M1037 Linked round permits training in adjacent training areas due to its reduced Surface Danger Zone (SDZ) and can be fired with the existing M249 family of weapons. This item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition **P-1 Line Item Number / Title:**
E00700 / CTG, 5.56MM, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E01000 / CTG 5.56MM TEST HIGH PRESSURE, M197 SERIES [A070]		A	1,035,156 / 1.325	614,748 / 0.407	- / -	524,038 / 0.390	- / -	524,038 / 0.390
P-5	E01100 / CTG 5.56MM BLANK M200 [A080]		A	542,505K / 519.612	25,527,851 / 3.707	28,155,124 / 4.632	27,080,447 / 4.500	- / -	27,080,447 / 4.500
P-5	E01101 / CTG 5.56MM BLANK M200 LINKED F/SAW [A075]		A	776,862K / 201.984	10,895,426 / 2.354	10,101,146 / 2.340	10,105,323 / 2.387	- / -	10,105,323 / 2.387
P-5	E04607 / CTG, 5.56MM 4 BALL M855A1 EPR /1 TR M856A1 LINKED [AB73]	P-5a, P-21	A	105,145K / 43.675	- / -	16,053,557 / 6.625	15,802,591 / 6.300	- / -	15,802,591 / 6.300
P-5	E04608 / CTG, 5.56MM TRACER M856A1 SINGLE ROUND [AB74]		A	21,924,264 / 8.059	2,120,669 / 0.863	1,893,095 / 0.860	- / -	- / -	- / -
P-5	E95400 / CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK [AB57]	P-5a, P-21	A	969,623K / 784.312	31,180,120 / 12.854	18,063,922 / 9.002	16,813,320 / 6.400	- / -	16,813,320 / 6.400
P-5	E95700 / CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK [AB77]	P-5a, P-21	A	259,134K / 97.579	32,523,226 / 9.610	59,482,142 / 17.500	59,224,152 / 18.119	- / -	59,224,152 / 18.119
P-5	E96111 / CTG, 5.56MM MARKING, M1042 (RED) [AB10]		A	15,444,227 / 11.697	- / -	223,882 / 0.183	- / -	- / -	- / -
P-5	E96120 / CTG, 5.56MM MARKING LINKED, M1071 (BLUE) F/SAW [AB16]		A	2,514,400 / 3.494	- / -	46,628 / 0.042	440,477 / 0.350	- / -	440,477 / 0.350
P-5	E96121 / CTG, 5.56MM MARKING LINKED, M1071 (RED) F/SAW [AB17]		A	3,635,406 / 3.208	- / -	- / -	188,776 / 0.150	- / -	188,776 / 0.150
P-5	E96125 / Ctg, 5.56mm, Short Range Training, M1037, sngl rd [AB67]		A	- / -	90,310 / 0.148	902,175 / 1.205	502,902 / 0.700	- / -	502,902 / 0.700
P-5	E96126 / Ctg, 5.56mm, Short Range Training, M1037 Linked [AB66]		A	1,018,438 / 4.695	- / -	879,533 / 1.100	771,428 / 1.000	- / -	771,428 / 1.000
P-40	Total Gross/Weapon System Cost			- / 1,679.641	- / 29.943	- / 43.489	- / 40.296	- / -	- / 40.296

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

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

Justification:

FY 2017 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$40.296 million supports procurement of 131.453 million cartridges

(E01000) 5.56MM High Pressure Test (HPT) round is a testing round used exclusively for acceptance testing of 5.56mm barrels. The FY 2017 request supports annual testing requirements and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$0.390 million supports the procurement of 0.524 million of the M197 High Pressure Test (HPT) Cartridges.

Type classification date: 1975

(E01100) 5.56mm, M200 Blank Cartridge is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$4.500 million supports the procurement of 27.080 million of the M200 Blank Cartridges.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>Type classification date: prior to 1977</p> <p>(E01101) 5.56mm, M200 Blank Linked F/SAW is a training unique item. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$2.387 million supports the procurement of 10.105 million of the M200 Blank Linked Cartridges. Type classification date: prior to 1977</p> <p>(E04607) 5.56mm M855A1 Ball and M856A1 Tracer Cartridges are training standard items used in both training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$6.300 million supports the procurement of 15.803 million of the CTG 5.56MM M855A1 Ball and M856A1 Tracer Cartridges. Type classification date: 1982</p> <p>(E04608) 5.56mm M856A1 Tracer Bullet is lead free and is a training standard item used in training and combat. The procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. Type classification date: 1982</p> <p>(E95400) 5.56mm, M855A1 Ball Cartridge is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$6.400 million supports the procurement of 16.813 million of the CTG 5.56MM M855A1 Ball Cartridges. Type classification date: 1982</p> <p>(E95700) 5.56mm, M855A1 Ball Cartridge is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$18.119 million supports the procurement of 59.224 million of the M855A1 Ball Cartridges. Type classification date: 1982</p> <p>(E96110/E96111) 5.56mm, Marking Blue/Marking Red, M1042 are training unique items not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. Type classification date: May 2009</p> <p>(E96120) 5.56mm, Marking Blue, M1071 are training unique items not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$0.350 million supports the procurement of .440 million of the Marking Blue M1071 Cartridges. Type classification date: May 2009</p> <p>(E96121) 5.56mm, Marking Red, M1071 are training unique items not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$0.150 million supports the procurement of .189 million of the Marking Blue M1071 Cartridges. Type classification date: May 2009</p> <p>(E96125) 5.56mm Short Range Training Ammunition (SRTA) M1037 clipped rounds is training unique not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$0.700 million supports the procurement of .503 million of the SRTA M1037 Cartridges. Type classification date: July 2012</p> <p>(E96126) M1037 5.56mm Short Range Training Ammunition (SRTA) linked round is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$1.000 million supports the procurement of .771 million of the SRTA M1037 Cartridges. Type classification date: July 2012</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E01000 / CTG 5.56MM TEST HIGH PRESSURE, M197 SERIES [A070]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	1,035,156	614,748	-	524,038	-	524,038
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.325	0.407	-	0.390	-	0.390
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.325	0.407	-	0.390	-	0.390
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.325	0.407	-	0.390	-	0.390

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	1.28	0.66	-	0.74	-	0.74

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	0.64	1,035,156	0.662	0.62	614,748	0.381	-	-	-	0.68	524,038	0.356	-	-	-	0.68	524,038	0.356
BOX METAL M2A2	-	-	-	10.38	756	0.008	-	-	-	13.06	644	0.008	-	-	-	13.06	644	0.008
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.662</i>	-	-	<i>0.389</i>	-	-	-	-	-	<i>0.365</i>	-	-	-	-	-	<i>0.365</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>0.662</i>	-	-	<i>0.389</i>	-	-	-	-	-	<i>0.365</i>	-	-	-	-	-	<i>0.365</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	0.663	-	-	0.018	-	-	-	-	-	0.026	-	-	-	-	-	0.026
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<i>0.663</i>	-	-	<i>0.018</i>	-	-	-	-	-	<i>0.026</i>	-	-	-	-	-	<i>0.026</i>
Gross/Weapon System Cost	1.28	1,035,156	1.325	0.66	614,748	0.407	-	-	-	0.74	524,038	0.390	-	-	-	0.74	524,038	0.390

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
		Item Number / Title [DODIC]: E01100 / CTG 5.56MM BLANK M200 [A080]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	542,505K	25,527,851	28,155,124	27,080,447	-	27,080,447
Gross/Weapon System Cost (\$ in Millions)	519.612	3.707	4.632	4.500	-	4.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	519.612	3.707	4.632	4.500	-	4.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	519.612	3.707	4.632	4.500	-	4.500

(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)	0.96	0.15	0.16	0.17	-	0.17

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	0.13	37,348,129	4.855	0.12	25,527,851	3.063	0.14	28,155,124	3.942	0.13	27,080,447	3.520	-	-	-	0.13	27,080,447	3.520
BOX METAL M2A2	-	-	-	10.38	22,720	0.236	12.49	25,058	0.313	13.06	24,101	0.315	-	-	-	13.06	24,101	0.315
<i>Subtotal: Recurring Cost</i>	-	-	4.855	-	-	3.299	-	-	4.255	-	-	3.835	-	-	-	-	-	3.835
<i>Subtotal: Hardware Cost</i>	-	-	4.855	-	-	3.299	-	-	4.255	-	-	3.835	-	-	-	-	-	3.835
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
Support - Production Engineering Cost																		
Production Engineering	-	-	514.757	-	-	0.403	-	-	0.377	-	-	0.639	-	-	-	-	-	0.639
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	514.757	-	-	0.403	-	-	0.377	-	-	0.639	-	-	-	-	-	0.639
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.005	-	-	-	-	-	0.006	-	-	-	-	-	0.006
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.005	-	-	-	-	-	0.006	-	-	-	-	-	0.006
Gross/Weapon System Cost	0.96	542,505K	519.612	0.15	25,527,851	3.707	0.16	28,155,124	4.632	0.17	27,080,447	4.500	-	-	-	0.17	27,080,447	4.500

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E01101 / CTG 5.56MM BLANK M200 LINKED F/SAW [A075]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	776,862K	10,895,426	10,101,146	10,105,323	-	10,105,323
Gross/Weapon System Cost (\$ in Millions)	201.984	2.354	2.340	2.387	-	2.387
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	201.984	2.354	2.340	2.387	-	2.387
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	201.984	2.354	2.340	2.387	-	2.387

(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)	0.26	0.22	0.23	0.24	-	0.24

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	0.21	776,862K	163.141	0.19	10,895,426	2.070	0.22	10,101,146	2.222	0.21	10,105,323	2.122	-	-	-	0.21	10,105,323	2.122
Subtotal: Recurring Cost	-	-	163.141	-	-	2.070	-	-	2.222	-	-	2.122	-	-	-	-	-	2.122
Subtotal: Hardware Cost	-	-	163.141	-	-	2.070	-	-	2.222	-	-	2.122	-	-	-	-	-	2.122
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.059	-	-	-	-	-	0.038	-	-	-	-	-	0.038
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.059	-	-	-	-	-	0.038	-	-	-	-	-	0.038
Support - Production Engineering Cost																		
Production Engineering	-	-	38.843	-	-	0.225	-	-	0.118	-	-	0.224	-	-	-	-	-	0.224
Subtotal: Support - Production Engineering Cost	-	-	38.843	-	-	0.225	-	-	0.118	-	-	0.224	-	-	-	-	-	0.224
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
Gross/Weapon System Cost	0.26	776,862K	201.984	0.22	10,895,426	2.354	0.23	10,101,146	2.340	0.24	10,105,323	2.387	-	-	-	0.24	10,105,323	2.387

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E04607 / CTG, 5.56MM 4 BALL M855A1 EPR /1 TR M856A1 LINKED [AB73]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	105,145K	-	16,053,557	15,802,591	-	15,802,591
Gross/Weapon System Cost (\$ in Millions)	43.675	-	6.625	6.300	-	6.300
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	43.675	-	6.625	6.300	-	6.300
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	43.675	-	6.625	6.300	-	6.300

(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)	0.42	0.43	0.41	0.40	-	0.40

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	43.675	-	-	-	0.38	16,053,557	6.100	0.37	15,802,591	5.847	-	-	-	0.37	15,802,591	5.847
<i>Subtotal: Recurring Cost</i>	-	-	43.675	-	-	-	-	-	6.100	-	-	5.847	-	-	-	-	-	5.847
<i>Subtotal: Hardware Cost</i>	-	-	43.675	-	-	-	-	-	6.100	-	-	5.847	-	-	-	-	-	5.847
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.019	-	-	0.023	-	-	-	-	-	0.023
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.019	-	-	0.023	-	-	-	-	-	0.023
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.502	-	-	0.421	-	-	-	-	-	0.421
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.502	-	-	0.421	-	-	-	-	-	0.421
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.004	-	-	0.009	-	-	-	-	-	0.009
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	0.004	-	-	0.009	-	-	-	-	-	0.009
Gross/Weapon System Cost	0.42	105,145K	43.675	0.43	-	-	0.41	16,053,557	6.625	0.40	15,802,591	6.300	-	-	-	0.40	15,802,591	6.300

^(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E04607 / CTG, 5.56MM 4 BALL M855A1 EPR /1 TR M856A1 LINKED [AB73]					

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
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2017	16,053,557	0.38	Y		
COMPLETE ROUND ^(†)		2017	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2018	15,802,591	0.37	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2016 AND FY 2017 COMPLETE ROUND IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY 2012.

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types										Item Number / Title [DODIC]: E04607 / CTG, 5.56MM 4 BALL M855A1 EPR /1 TR M856A1 LINKED [AB73]									

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
COMPLETE ROUND																															
	1	2016	ARMY	16.054	8.027	8.027	1.338	1.338	1.338	1.338	1.338	1.338																		-	
	1	2017	ARMY	15.803	-	15.803	-	-	-	-	-	-	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317			-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
		Item Number / Title [DODIC]: E04607 / CTG, 5.56MM 4 BALL M855A1 EPR /1 TR M856A1 LINKED [AB73]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYSTEMS (LCAAP) - INDEPENDENCE, MO	1,600	5,143,040	9,771,776	12	6	13	19	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E04608 / CTG, 5.56MM TRACER M856A1 SINGLE ROUND [AB74]

ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)		21,924,264	2,120,669	1,893,095	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)		8.059	0.863	0.860	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		8.059	0.863	0.860	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		8.059	0.863	0.860	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)		0.37	0.41	0.45	-	-	-

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	0.35	21,924,264	7.673	0.35	2,120,669	0.742	0.41	1,893,095	0.776	-	-	-	-	-	-	-	-	-
BOX METAL M2A2	-	-	-	10.38	2,608	0.027	12.49	2,329	0.029	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	7.673	-	-	0.769	-	-	0.805	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	7.673	-	-	0.769	-	-	0.805	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.386	-	-	0.094	-	-	0.055	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.386	-	-	0.094	-	-	0.055	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.37	21,924,264	8.059	0.41	2,120,669	0.863	0.45	1,893,095	0.860	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E95400 / CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK [AB57]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	969,623K	31,180,120	18,063,922	16,813,320	-	16,813,320
Gross/Weapon System Cost (\$ in Millions)	784.312	12.854	9.002	6.400	-	6.400
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	784.312	12.854	9.002	6.400	-	6.400
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	784.312	12.854	9.002	6.400	-	6.400

(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)	0.81	0.41	0.50	0.38	-	0.38

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	0.78	969,623K	756.306	0.39	31,180,120	12.160	0.32	18,063,922	5.780	0.30	16,813,320	5.044	-	-	-	0.30	16,813,320	5.044
BOX METAL M2A2 ^(†)	-	-	-	-	-	-	12.49	21,677	0.271	13.06	20,176	0.263	-	-	-	13.06	20,176	0.263
<i>Subtotal: Recurring Cost</i>	-	-	756.306	-	-	12.160	-	-	6.051	-	-	5.307	-	-	-	-	-	5.307
<i>Subtotal: Hardware Cost</i>	-	-	756.306	-	-	12.160	-	-	6.051	-	-	5.307	-	-	-	-	-	5.307
Support - Production Engineering Cost																		
Production Engineering	-	-	28.006	-	-	0.694	-	-	0.531	-	-	0.585	-	-	-	-	-	0.585
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	28.006	-	-	0.694	-	-	0.531	-	-	0.585	-	-	-	-	-	0.585
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	-	-	-	2.420	-	-	0.505	-	-	-	-	-	0.505
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	-	-	-	2.420	-	-	0.505	-	-	-	-	-	0.505
Gross/Weapon System Cost	0.81	969,623K	784.312	0.41	31,180,120	12.854	0.50	18,063,922	9.002	0.38	16,813,320	6.400	-	-	-	0.38	16,813,320	6.400

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E95400 / CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK [AB57]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E95400 / CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK [AB57]					

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	OLIN CORP WINCHESTER DIVISION / EAST ALTON, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Oct 2015	31,180,120	0.39	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2017	16,257,530	0.32	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	1,806,392	0.32	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2018	15,131,988	0.30	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2017	1,681,332	0.30	Y		
BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Jul 2016	21,677	12.49	Y		
BOX METAL M2A2		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2017	Jul 2017	20,176	13.06	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2015, FY 2016 AND FY 2017 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY 2012. FY 2016 AND FY 2017 LAP IS AN AVERAGE UNIT COST BETWEEN TWO CONTRACTORS.

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E95400 / CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK [AB57]
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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 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LOAD, ASSEMBLE, PACK (LAP)																															
Prior Years Deliveries: 969622805																															
1	2015	ARMY		31.180	-	31.180												4.454	4.454	4.454	4.454	4.454	4.454	4.454						-	
1	2015	AF (+)		7.249	-	7.249												1.036	1.036	1.036	1.036	1.036	1.036	1.036						-	
1	2015	Total		38.429	-	38.429											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2016	ARMY		16.258	-	16.258																									16.258
2	2016	AF (+)		15.800	-	15.800																									15.800
2	2016	Total		32.057	-	32.057												-	-	-	-	-	-	-	-	-	-	-	-	-	32.057
3	2016	ARMY		1.806	-	1.806																									1.806
3	2016	AF (+)		1.756	-	1.756																									1.756
3	2016	Total		3.562	-	3.562												-	-	-	-	-	-	-	-	-	-	-	-	-	3.562
2	2017	ARMY		15.132	-	15.132																									15.132
2	2017	AF (+)		16.101	-	16.101																									16.101
2	2017	Total		31.233	-	31.233												-	-	-	-	-	-	-	-	-	-	-	-	-	31.233
3	2017	ARMY		1.681	-	1.681																									1.681
3	2017	AF (+)		1.789	-	1.789																									1.789
3	2017	Total		3.470	-	3.470												-	-	-	-	-	-	-	-	-	-	-	-	-	3.470
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types										Item Number / Title [DODIC]: E95400 / CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK [AB57]									

Cost Elements <i>(Units in Millions, * = < 500)</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							
LOAD, ASSEMBLE, PACK (LAP)																																					
Prior Years Deliveries: 969622805																																					
1	2015	ARMY		31.180	31.180	-																								-							
1	2015	AF (†)		7.249	7.249	-																								-							
1	2015	Total		38.429	38.429	-																								-							
2	2016	ARMY		16.258	-	16.258	-	-	-	-	-	-	-	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	-								
2	2016	AF (†)		15.800	-	15.800	-	-	-	-	-	-	-	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	1.317	-								
2	2016	Total		32.057	-	32.057	-	-	-	-	-	-	-	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	-								
3	2016	ARMY		1.806	-	1.806	-	-	-	-	-	-	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	.151	-								
3	2016	AF (†)		1.756	-	1.756	-	-	-	-	-	-	.146	.146	.146	.146	.146	.146	.146	.146	.146	.146	.146	.146	.146	.146	.146	.146	-								
3	2016	Total		3.562	-	3.562	-	-	-	-	-	-	.297	.297	.297	.297	.297	.297	.297	.297	.297	.297	.297	.297	.297	.297	.297	.297	-								
2	2017	ARMY		15.132	-	15.132																							7.566								
2	2017	AF (†)		16.101	-	16.101																							8.050								
2	2017	Total		31.233	-	31.233																							15.616								
3	2017	ARMY		1.681	-	1.681																							-								
3	2017	AF (†)		1.789	-	1.789																							-								
3	2017	Total		3.470	-	3.470																							-								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army				Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E95400 / CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK [AB57]			

Cost Elements <i>(Units in Millions, * = < 500)</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	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J		A	S
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U		U	U
T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P								
LOAD, ASSEMBLE, PACK (LAP)																															
Prior Years Deliveries: 969622805																															
	1	2015	ARMY	31.180	31.180	-																								-	
	1	2015	AF (+)	7.249	7.249	-																								-	
	1	2015	Total	38.429	38.429	-																								-	
	2	2016	ARMY	16.258	16.258	-																								-	
	2	2016	AF (+)	15.800	15.800	-																								-	
	2	2016	Total	32.057	32.057	-																								-	
	3	2016	ARMY	1.806	1.806	-																								-	
	3	2016	AF (+)	1.756	1.756	-																								-	
	3	2016	Total	3.562	3.562	-																								-	
	2	2017	ARMY	15.132	7.566	7.566	1.261	1.261	1.261	1.261	1.261	1.261																		-	
	2	2017	AF (+)	16.101	8.050	8.050	1.342	1.342	1.342	1.342	1.342	1.342																		-	
	2	2017	Total	31.233	15.616	15.616	2.603	2.603	2.603	2.603	2.603	2.603																		-	
	3	2017	ARMY	1.681	1.681	-																								-	
	3	2017	AF (+)	1.789	1.789	-																								-	
	3	2017	Total	3.470	3.470	-																								-	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
Item Number / Title [DODIC]: E95400 / CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK [AB57]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	OLIN CORP WINCHESTER DIVISION - EAST ALTON, IL	1,680	500,000	19,500,000	6	6	6	12	6	6	2	8
2	ALLIANT TECHSYSTEMS (LCAAP) - INDEPENDENCE, MO	1,680	19,400,000	67,500,000	12	6	13	19	6	6	13	19
3	TO BE SELECTED - TBS01	1,680	19,400,000	67,500,000	6	6	12	18	6	6	6	12

(†) 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 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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E95700 / CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK [AB77]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	259,134K	32,523,226	59,482,142	59,224,152	-	59,224,152
Gross/Weapon System Cost (\$ in Millions)	97.579	9.610	17.500	18.119	-	18.119
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	97.579	9.610	17.500	18.119	-	18.119
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	97.579	9.610	17.500	18.119	-	18.119

(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)	0.38	0.30	0.29	0.31	-	0.31

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	0.42	31,539,866	13.247	0.24	32,523,226	7.806	0.28	59,482,142	16.655	0.26	59,224,152	15.398	-	-	-	0.26	59,224,152	15.398
BOX METAL M2A2 ^(†)	-	-	-	10.38	36,426	0.378	12.49	67,694	0.845	13.06	66,331	0.866	-	-	-	13.06	66,331	0.866
<i>Subtotal: Recurring Cost</i>	-	-	13.247	-	-	8.184	-	-	17.500	-	-	16.265	-	-	-	-	-	16.265
Subtotal: Hardware Cost	-	-	13.247	-	-	8.184	-	-	17.500	-	-	16.265	-	-	-	-	-	16.265
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.045	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.045	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	84.332	-	-	1.360	-	-	-	-	-	1.855	-	-	-	-	-	1.855
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	84.332	-	-	1.360	-	-	-	-	-	1.855	-	-	-	-	-	1.855
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.38	259,134K	97.579	0.30	32,523,226	9.610	0.29	59,482,142	17.500	0.31	59,224,152	18.119	-	-	-	0.31	59,224,152	18.119

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E95700 / CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK [AB77]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E95700 / CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK [AB77]					

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Jul 2016	32,523,226	0.24	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2017	59,482,142	0.28	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2018	59,224,152	0.26	Y		
BOX METAL M2A2		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2015	Jul 2015	36,426	10.38	Y		
BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Jul 2016	67,694	12.49	Y		
BOX METAL M2A2		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2017	Jul 2017	66,331	13.06	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2015, FY 2016 AND FY 2017 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY 2012.

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
Item Number / Title [DODIC]: E95700 / CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK [AB77]	

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 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	

LOAD, ASSEMBLE, PACK (LAP)

Prior Years Deliveries: 31539866

1	2015	ARMY	32.523	-	32.523		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.446	6.665	8.888	12.523	
1	2016	ARMY	59.482	-	59.482																															59.482
1	2017	ARMY	59.224	-	59.224																															59.224

							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types										Item Number / Title [DODIC]: E95700 / CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK [AB77]									

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 31539866																																	
1		2015	ARMY	32.523	20.000	12.523	5.000	5.000	2.523																				-				
1		2016	ARMY	59.482	-	59.482	-	-	-	-	-	-	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957		-				
1		2017	ARMY	59.224	-	59.224							A	-	-	-	-	-	-	-	-	-	-	-	-	-	4.935	4.935	4.935	4.935	4.935	4.935	29.612
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types										Item Number / Title [DODIC]: E95700 / CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK [AB77]									

Cost Elements <i>(Units in Millions, * = < 500)</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
LOAD, ASSEMBLE, PACK (LAP)																															
Prior Years Deliveries: 31539866																															
	1	2015	ARMY	32.523	32.523	-																									
	1	2016	ARMY	59.482	59.482	-																									
	1	2017	ARMY	59.224	29.612	29.612	4.935	4.935	4.935	4.935	4.935	4.935																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types
Item Number / Title [DODIC]: E95700 / CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK [AB77]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYSTEMS (LCAAP) - INDEPENDENCE, MO	900	19,400,000	67,500,000	12	6	13	19	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E96111 / CTG, 5.56MM MARKING, M1042 (RED) [AB10]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	15,444,227	-	223,882	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	11.697	-	0.183	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	11.697	-	0.183	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	11.697	-	0.183	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	0.76	0.78	0.82	-	-	-

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 Cost																		
Recurring Cost																		
Complete Round	0.71	15,444,227	10.965	-	-	-	0.74	223,882	0.166	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	10.965	-	-	-	-	-	0.166	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	10.965	-	-	-	-	-	0.166	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.732	-	-	-	-	-	0.017	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.732	-	-	-	-	-	0.017	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.76	15,444,227	11.697	0.78	-	-	0.82	223,882	0.183	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E96120 / CTG, 5.56MM MARKING LINKED, M1071 (BLUE) F/SAW [AB16]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	2,514,400	-	46,628	440,477	-	440,477
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.494	-	0.042	0.350	-	0.350
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.494	-	0.042	0.350	-	0.350
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.494	-	0.042	0.350	-	0.350

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	1.39	0.66	0.90	0.80	-	0.79

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 Cost																		
Recurring Cost																		
Complete Round	0.81	2,514,400	2.037	-	-	-	0.82	46,628	0.038	0.75	440,477	0.330	-	-	-	0.75	440,477	0.330
<i>Subtotal: Recurring Cost</i>	-	-	2.037	-	-	-	-	-	0.038	-	-	0.330	-	-	-	-	-	0.330
<i>Subtotal: Hardware Cost</i>	-	-	2.037	-	-	-	-	-	0.038	-	-	0.330	-	-	-	-	-	0.330
Support - Production Engineering Cost																		
Production Engineering	-	-	1.457	-	-	-	-	-	0.004	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	1.457	-	-	-	-	-	0.004	-	-	0.020	-	-	-	-	-	0.020
Gross/Weapon System Cost	1.39	2,514,400	3.494	0.66	-	-	0.90	46,628	0.042	0.80	440,477	0.350	-	-	-	0.79	440,477	0.350

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E96121 / CTG, 5.56MM MARKING LINKED, M1071 (RED) F/SAW [AB17]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	3,635,406	-	-	188,776	-	188,776
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.208	-	-	0.150	-	0.150
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.208	-	-	0.150	-	0.150
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.208	-	-	0.150	-	0.150

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	0.88	-	-	0.80	-	0.79

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 Cost																		
Recurring Cost																		
Complete Round	0.80	3,635,406	2,908	-	-	-	-	-	-	0.75	188,776	0.142	-	-	-	0.75	188,776	0.142
<i>Subtotal: Recurring Cost</i>	-	-	2,908	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	0.142
<i>Subtotal: Hardware Cost</i>	-	-	2,908	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	0.142
Support - Production Engineering Cost																		
Production Engineering	-	-	0.300	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	0.008
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.300	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	0.008
Gross/Weapon System Cost	0.88	3,635,406	3,208	-	-	-	-	-	-	0.80	188,776	0.150	-	-	-	0.79	188,776	0.150

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E96125 / Ctg, 5.56mm, Short Range Training, M1037, snl rd [AB67]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	-	90,310	902,175	502,902	-	502,902
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.148	1.205	0.700	-	0.700
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.148	1.205	0.700	-	0.700
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.148	1.205	0.700	-	0.700

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	1.64	1.34	1.39	-	1.39

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	1.16	90,310	0.105	1.20	902,175	1.083	1.24	502,902	0.624	-	-	-	1.24	502,902	0.624
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>0.105</i>	-	-	<i>1.083</i>	-	-	<i>0.624</i>	-	-	-	-	-	<i>0.624</i>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	0.105	-	-	1.083	-	-	0.624	-	-	-	-	-	0.624
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.043	-	-	0.122	-	-	0.076	-	-	-	-	-	0.076
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.043</i>	-	-	<i>0.122</i>	-	-	<i>0.076</i>	-	-	-	-	-	<i>0.076</i>
Gross/Weapon System Cost	-	-	-	1.64	90,310	0.148	1.34	902,175	1.205	1.39	502,902	0.700	-	-	-	1.39	502,902	0.700

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E00700 / CTG, 5.56MM, All Types	Item Number / Title [DODIC]: E96126 / Ctg, 5.56mm, Short Range Training, M1037 Linked [AB66]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	1,018,438	-	879,533	771,428	-	771,428
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.695	-	1.100	1.000	-	1.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.695	-	1.100	1.000	-	1.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.695	-	1.100	1.000	-	1.000
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	4.61	-	1.25	1.30	-	1.30

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 Cost																		
Recurring Cost																		
Complete Round	1.17	1,018,438	1.192	-	-	-	1.12	879,533	0.985	1.15	771,428	0.887	-	-	-	1.15	771,428	0.887
<i>Subtotal: Recurring Cost</i>	-	-	1.192	-	-	-	-	-	0.985	-	-	0.887	-	-	-	-	-	0.887
<i>Subtotal: Hardware Cost</i>	-	-	1.192	-	-	-	-	-	0.985	-	-	0.887	-	-	-	-	-	0.887
Support - Production Engineering Cost																		
Production Engineering	-	-	3.503	-	-	-	-	-	0.115	-	-	0.113	-	-	-	-	-	0.113
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	3.503	-	-	-	-	-	0.115	-	-	0.113	-	-	-	-	-	0.113
Gross/Weapon System Cost	4.61	1,018,438	4.695	-	-	-	1.25	879,533	1.100	1.30	771,428	1.000	-	-	-	1.30	771,428	1.000

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition	P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	172.740	12.418	40.715	39.237	9.642	48.879	39.704	34.701	36.823	36.788	-	422.768
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	172.740	12.418	40.715	39.237	9.642	48.879	39.704	34.701	36.823	36.788	-	422.768
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	172.740	12.418	40.715	39.237	9.642	48.879	39.704	34.701	36.823	36.788	-	422.768

(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 budget line includes 7.62mm ALL TYPES.

(E02011) 7.62mm M80A1 Enhanced Performance Round (EPR) Ball is linked in a 100 round belt with the M13 link for use in the M240 Machine Gun. The M80A1 Ball Cartridge has a steel penetrator and non-lead slug surrounded by a copper jacket. They are intended for use against personnel and light-armored targets. This Item is Code A, approved for service use.

(E02012) 7.62mm M80A1 Enhanced Performance Round (EPR) Ball Cartridges and M62A1 Tracer Cartridges are linked in a 100 round belt in a 4 Ball/1 Tracer configuration with the M13 link for use in the M240 Machine Gun. The M80A1 Ball Cartridge has a steel penetrator and a non-lead slug surrounded by a copper jacket. The M62A1 Tracer Cartridge provides a visible red light signature through its trajectory and is ballistically matched with the M80A1 trajectory. They are intended for use against personnel and light-armored targets. This Item is Code A, approved for service use.

(E02015) 7.62mm M82A1 Blank Bottleneck Cartridge has a bottleneck design with a paper wad closure and a red tip. The M82A1 is used in sniper training and salute ceremonies in M14 rifles without being equipped with a firing adapter. This Item is Code A, approved for service use.

(E02500) 7.62mm Dummy M172 W/M13 linked cartridge is properly weighted in terms of mass and center of gravity and is physically contoured to represent a tactical M80 7.62mm ball round. The round is coated with black oxide to visually distinguish from tactical ammunition. The round is used for weapon manufacturing testing to conduct belt-pull tests for automatic weapons and for environmental conditioning tests of weapons, mounts and ammunition. The M172 linked cartridge is also used for developing new and/or improved mount systems for the vehicles that contain the M240 Series machine gun. This Item is Code B, not approved for service use.

(E02501) 7.62mm, M63A1 Dummy, Drilled and Inert ammunition (DDI) is an inert dummy round used as an ammunition training aid and for weapon familiarization. The 7.62mm, M63A1 DDI ammunition is both nickel plated and fluted for easy recognition and to distinguish the dummy ammunition visually from tactical ammunition. This Item is Code A, approved for service use.

(E89100) 7.62mm M118 Long Range round is a match grade design intended for long range accuracy and is packed in a 20 round cardboard carton and intended for Sniper use in the M40, M110, and MK21 Rifles. It is intended for use against personnel and non-armored targets. This Item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition **P-1 Line Item Number / Title:**
E02000 / CTG, 7.62MM, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E02011 / CTG, 7.62MM M80A1 BALL LINKED, LEAD FREE [AB79]	P-5a, P-21	A	18,350,020 / 16.508	3,529,264 / 3.188	6,483,025 / 5.900	5,245,278 / 4.900	- / -	5,245,278 / 4.900
P-5	E02012 / CTG, 7.62MM 4 BALL/1TR LINKED, LEAD FREE [AB86]	P-5a, P-21	A	86,951,595 / 117.565	6,942,560 / 7.644	28,623,647 / 34.362	27,198,520 / 33.000	8,917,874 / 9.642	36,116,394 / 42.642
P-5	E02015 / CTG, 7.62MM, BOTTLENOSE BLANK, M82A1 [AB72]		A	374,825 / 0.302	1,194,974 / 0.805	295,068 / 0.234	425,706 / 0.332	- / -	425,706 / 0.332
P-5	E02500 / CTG 7.62MM DUMMY M172 W/M13 LINK [A159]		B	5,000 / 0.290	413,614 / 0.444	- / -	151,649 / 0.170	- / -	151,649 / 0.170
P-5	E02501 / CTG, 7.62MM SINGLE ROUND (NPF DDI), M63A1 [AB47]		A	841,129 / 0.734	- / -	- / -	303,311 / 0.256	- / -	303,311 / 0.256
P-5	E89100 / CARTRIDGE 7.62MM M118 LONG RANGE [AA11]		A	56,732,229 / 37.341	547,075 / 0.337	313,663 / 0.219	818,718 / 0.579	- / -	818,718 / 0.579
P-40	Total Gross/Weapon System Cost			- / 172.740	- / 12.418	- / 40.715	- / 39.237	- / 9.642	- / 48.879

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$39.237 million supports procurement of 34.144 million cartridges
The FY 2017 OCO dollars are to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives and are provided in the amount of \$9.642 million supports procurement of 8.918 million cartridges.

(E02011) 7.62mm M80A1 Enhanced Performance Round (EPR) Lead Free Slug (LFS) Ball Cartridge is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$4.900 million supports the procurement of 5.245 million of the 7.62mm M80A1 1 Ball (EPR) (LFS) Cartridges.
Type classification date: 1979

(E02012) 7.62mm M80A1 Enhanced Performance Round (EPR) 4 Ball /1 Trace, Lead Free Slug (LFS) Cartridge /M62A1 LFS Tracer Cartridge is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$33.000 million supports the procurement of 27.199 million of the 7.62mm M80A1 4 Ball/1Trace (EPR) (LFS) Cartridges. FY 2017 OCO dollars are to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives and are provided in the amount of \$9.642 million supports the procurement of 8.918 million of the 7.62mm M80A1 4 Ball/1Trace (EPR) (LFS) Cartridges.
Type classification date: 1957

(E02015) 7.62mm M82A1 Blank Bottlenose Cartridge is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$.332 million supports the procurement of .426 million of the M82A1 Blank Bottlenose Cartridges.
Type classification date: 2012

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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	

(E02500) 7.62mm Dummy M172 W/M13 linked cartridge is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$.170 million supports the procurement of .152 million M172 W/M13 linked Cartridges.
Type classification date: 1963

(E02501) 7.62mm Single Round (NPF DDI) M63A1 Round is a training standard item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$.256 million supports the procurement of .303 million Single Round (NPF DDI) M63A1 rounds.
Type classification date: June 1963

(E89100) 7.62mm M118 Long Range Round is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base Procurement dollars in the amount of \$.579 million supports the procurement of .819 million of the 7.62mm Long Range Rounds.
Type classification date: Prior to 1997

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
		Item Number / Title [DODIC]: E02011 / CTG, 7.62MM M80A1 BALL LINKED, LEAD FREE [AB79]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	18,350,020	3,529,264	6,483,025	5,245,278	-	5,245,278
Gross/Weapon System Cost (\$ in Millions)	16.508	3.188	5.900	4.900	-	4.900
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	16.508	3.188	5.900	4.900	-	4.900
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	16.508	3.188	5.900	4.900	-	4.900

(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)	0.90	0.90	0.91	0.93	-	0.93

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	16.508	0.77	3,529,264	2.718	0.84	6,483,025	5.446	0.83	5,245,278	4.354	-	-	-	0.83	5,245,278	4.354
Subtotal: Recurring Cost	-	-	16.508	-	-	2.718	-	-	5.446	-	-	4.354	-	-	-	-	-	4.354
Subtotal: Hardware Cost	-	-	16.508	-	-	2.718	-	-	5.446	-	-	4.354	-	-	-	-	-	4.354
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.033	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.033	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.434	-	-	0.454	-	-	0.540	-	-	-	-	-	0.540
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.434	-	-	0.454	-	-	0.540	-	-	-	-	-	0.540
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.003	-	-	-	-	-	0.006	-	-	-	-	-	0.006
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.003	-	-	-	-	-	0.006	-	-	-	-	-	0.006
Gross/Weapon System Cost	0.90	18,350,020	16.508	0.90	3,529,264	3.188	0.91	6,483,025	5.900	0.93	5,245,278	4.900	-	-	-	0.93	5,245,278	4.900

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: E02011 / CTG, 7.62MM M80A1 BALL LINKED, LEAD FREE [AB79]					

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
COMPLETE ROUND ^(†)		2015	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2015	Oct 2016	3,529,264	0.77	Y		
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2017	6,483,025	0.84	Y		
COMPLETE ROUND ^(†)		2017	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2018	5,245,278	0.83	Y		

^(†) indicates the presence of a P-21

Remarks:
FY 2015, FY 2016 AND FY 2017 COMPLETE ROUND IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY 2012.

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
		Item Number / Title [DODIC]: E02011 / CTG, 7.62MM M80A1 BALL LINKED, LEAD FREE [AB79]

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2015												Fiscal Year 2016												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
COMPLETE ROUND																															
	1	2015	ARMY	3.529	-	3.529																								3.529	
	1	2016	ARMY	6.483	-	6.483																								6.483	
	1	2017	ARMY	5.245	-	5.245																								5.245	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types										Item Number / Title [DODIC]: E02011 / CTG, 7.62MM M80A1 BALL LINKED, LEAD FREE [AB79]									

Cost Elements <i>(Units in Millions, * = < 500)</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	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			
COMPLETE ROUND																																	
	1	2015	ARMY	3.529	-	3.529	1.011	-	-	-	-	-	-	2.519																-			
	1	2016	ARMY	6.483	-	6.483	-	-	-	-	-	-	-	-	.540	.540	.540	.540	.540	.540	.540	.540	.540	.540	.540	.540	.540	.540		-			
	1	2017	ARMY	5.245	-	5.245									A	-	-	-	-	-	-	-	-	-	-	-	.437	.437	.437	.437	.437	.437	2.623
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types										Item Number / Title [DODIC]: E02011 / CTG, 7.62MM M80A1 BALL LINKED, LEAD FREE [AB79]									

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T O 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
COMPLETE ROUND																															
	1	2015	ARMY	3.529	3.529	-																								-	
	1	2016	ARMY	6.483	6.483	-																								-	
	1	2017	ARMY	5.245	2.623	2.623	.437	.437	.437	.437	.437	.437																		-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
Item Number / Title [DODIC]: E02011 / CTG, 7.62MM M80A1 BALL LINKED, LEAD FREE [AB79]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYSTEMS (LCAAP) - INDEPENDENCE, MO	800	5,000,000	10,000,000	6	6	13	19	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types	Item Number / Title [DODIC]: E02012 / CTG, 7.62MM 4 BALL/1TR LINKED, LEAD FREE [AB86]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	86,951,595	6,942,560	28,623,647	27,198,520	8,917,874	36,116,394
Gross/Weapon System Cost (<i>\$ in Millions</i>)	117.565	7.644	34.362	33.000	9.642	42.642
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	117.565	7.644	34.362	33.000	9.642	42.642
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	117.565	7.644	34.362	33.000	9.642	42.642

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	1.35	1.10	1.20	1.21	1.08	1.18

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	1.24	86,951,595	107.820	0.89	6,942,560	6.179	1.06	28,623,647	30.341	1.08	27,198,520	29.374	1.08	8,917,874	9.631	1.08	36,116,394	39.006
<i>Subtotal: Recurring Cost</i>	-	-	107.820	-	-	6.179	-	-	30.341	-	-	29.374	-	-	9.631	-	-	39.006
<i>Subtotal: Hardware Cost</i>	-	-	107.820	-	-	6.179	-	-	30.341	-	-	29.374	-	-	9.631	-	-	39.006
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.072	-	-	0.177	-	-	0.163	-	-	-	-	-	0.163
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.072	-	-	0.177	-	-	0.163	-	-	-	-	-	0.163
Support - Product Improvement Cost																		
Environmental Initiatives	-	-	-	-	-	0.562	-	-	1.482	-	-	0.567	-	-	-	-	-	0.567
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	0.562	-	-	1.482	-	-	0.567	-	-	-	-	-	0.567
Support - Production Engineering Cost																		
Production Engineering	-	-	9.745	-	-	0.825	-	-	2.340	-	-	2.890	-	-	-	-	-	2.890
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	9.745	-	-	0.825	-	-	2.340	-	-	2.890	-	-	-	-	-	2.890
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.006	-	-	0.022	-	-	0.006	-	-	-	-	-	0.006
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.006	-	-	0.022	-	-	0.006	-	-	-	-	-	0.006

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types	Item Number / Title [DODIC]: E02012 / CTG, 7.62MM 4 BALL/1TR LINKED, LEAD FREE [AB86]
ID Code (A=Service Ready, B=Not Service Ready) : A		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	1.35	86,951,595	117.565	1.10	6,942,560	7.644	1.20	28,623,647	34.362	1.21	27,198,520	33.000	1.08	8,917,874	9.642	1.18	36,116,394	42.642

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: E02012 / CTG, 7.62MM 4 BALL/1TR LINKED, LEAD FREE [AB86]					

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
COMPLETE ROUND ^(†)		2015	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Jul 2016	6,942,560	0.89	Y		
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2017	28,623,647	1.06	Y		
COMPLETE ROUND ^(†)		2017	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2018	18,058,197	1.08	Y		
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2018	18,058,197	1.08	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2015, FY 2016 AND FY 2017 COMPLETE ROUND IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY 2012. FY 2017 IS AN AVERAGE UNIT COST BETWEEN TWO CONTRACTORS.

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
		Item Number / Title [DODIC]: E02012 / CTG, 7.62MM 4 BALL/1TR LINKED, LEAD FREE [AB86]

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										
COMPLETE ROUND																																								
Prior Years Deliveries: 86951595																																								
	1	2015	ARMY	6.943	6.943	-																																		-
	1	2016	ARMY	28.624	-	28.624	-	-	-	-	-	-	-	2.385	2.385	2.385	2.385	2.385	2.385	2.385	2.385	2.385	2.385	2.385	2.385	2.385	2.385	2.385										-		
	1	2017	ARMY	18.058	-	18.058								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.505	1.505	1.505	1.505	1.505	1.505	9.029			
	2	2017	ARMY	18.058	-	18.058								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.505	1.505	1.505	1.505	1.505	1.505	9.029				
														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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types										Item Number / Title [DODIC]: E02012 / CTG, 7.62MM 4 BALL/1TR LINKED, LEAD FREE [AB86]									

Cost Elements <i>(Units in Millions, * = < 500)</i>					Fiscal Year 2019												Fiscal Year 2020												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP 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
COMPLETE ROUND																															
Prior Years Deliveries: 86951595																															
	1	2015	ARMY	6.943	6.943	-																							-		
	1	2016	ARMY	28.624	28.624	-																							-		
	1	2017	ARMY	18.058	9.029	9.029	1.505	1.505	1.505	1.505	1.505	1.505																	-		
	2	2017	ARMY	18.058	9.029	9.029	1.505	1.505	1.505	1.505	1.505	1.505																	-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
Item Number / Title [DODIC]: E02012 / CTG, 7.62MM 4 BALL/1TR LINKED, LEAD FREE [AB86]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYSTEMS (LCAAP) - INDEPENDENCE, MO	800	5,000,000	10,000,000	6	6	13	19	6	6	13	19
2	TO BE SELECTED - TBS01	800	5,000,000	10,000,000	6	6	13	19	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
		Item Number / Title [DODIC]: E02015 / CTG, 7.62MM, BOTTLENOSE BLANK, M82A1 [AB72]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	374,825	1,194,974	295,068	425,706	-	425,706
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.302	0.805	0.234	0.332	-	0.332
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.302	0.805	0.234	0.332	-	0.332
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.302	0.805	0.234	0.332	-	0.332

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	0.81	0.67	0.79	0.78	-	0.78

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	0.72	374,825	0.270	0.62	1,194,974	0.741	0.70	295,058	0.207	0.71	425,706	0.302	-	-	-	0.71	425,706	0.302
<i>Subtotal: Recurring Cost</i>	-	-	0.270	-	-	0.741	-	-	0.207	-	-	0.302	-	-	-	-	-	0.302
<i>Subtotal: Hardware Cost</i>	-	-	0.270	-	-	0.741	-	-	0.207	-	-	0.302	-	-	-	-	-	0.302
Support - Production Engineering Cost																		
Production Engineering	-	-	0.032	-	-	0.061	-	-	0.023	-	-	0.027	-	-	-	-	-	0.027
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.032	-	-	0.061	-	-	0.023	-	-	0.027	-	-	-	-	-	0.027
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.003	-	-	0.004	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.003	-	-	0.004	-	-	0.003	-	-	-	-	-	0.003
Gross/Weapon System Cost	0.81	374,825	0.302	0.67	1,194,974	0.805	0.79	295,068	0.234	0.78	425,706	0.332	-	-	-	0.78	425,706	0.332

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types	Item Number / Title [DODIC]: E02500 / CTG 7.62MM DUMMY M172 W/M13 LINK [A159]

ID Code (A=Service Ready, B=Not Service Ready) : B	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 (<i>Units in Each</i>)	5,000	413,614	-	151,649	-	151,649
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.290	0.444	-	0.170	-	0.170
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.290	0.444	-	0.170	-	0.170
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.290	0.444	-	0.170	-	0.170

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	58.00	1.07	-	1.12	-	1.12

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	1.04	269,902	0.281	1.02	413,614	0.422	-	-	-	1.04	151,649	0.158	-	-	-	1.04	151,649	0.158
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.281</i>	-	-	<i>0.422</i>	-	-	-	-	-	<i>0.158</i>	-	-	-	-	-	<i>0.158</i>
<i>Subtotal: Hardware Cost</i>	-	-	0.281	-	-	0.422	-	-	-	-	-	0.158	-	-	-	-	-	0.158
Support - Production Engineering Cost																		
Production Engineering	-	-	0.009	-	-	0.022	-	-	-	-	-	0.012	-	-	-	-	-	0.012
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<i>0.009</i>	-	-	<i>0.022</i>	-	-	-	-	-	<i>0.012</i>	-	-	-	-	-	<i>0.012</i>
Gross/Weapon System Cost	58.00	5,000	0.290	1.07	413,614	0.444	-	-	-	1.12	151,649	0.170	-	-	-	1.12	151,649	0.170

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
		Item Number / Title [DODIC]: E02501 / CTG, 7.62MM SINGLE ROUND (NPF DDI), M63A1 [AB47]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	841,129	-	-	303,311	-	303,311
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.734	-	-	0.256	-	0.256
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.734	-	-	0.256	-	0.256
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.734	-	-	0.256	-	0.256

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	0.87	-	-	0.84	-	0.84

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	0.81	841,129	0.685	-	-	-	-	-	-	0.75	303,311	0.227	-	-	-	0.75	303,311	0.227
BOX METAL M2A2	13.01	1,809	0.024	-	-	-	-	-	-	13.06	667	0.009	-	-	-	13.06	667	0.009
<i>Subtotal: Recurring Cost</i>	-	-	0.705	-	-	-	-	-	-	-	-	0.236	-	-	-	-	-	0.236
<i>Subtotal: Hardware Cost</i>	-	-	0.705	-	-	-	-	-	-	-	-	0.236	-	-	-	-	-	0.236
Support - Production Engineering Cost																		
Production Engineering	-	-	0.029	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.029	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
Gross/Weapon System Cost	0.87	841,129	0.734	-	-	-	-	-	-	0.84	303,311	0.256	-	-	-	0.84	303,311	0.256

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E02000 / CTG, 7.62MM, All Types
		Item Number / Title [DODIC]: E89100 / CARTRIDGE 7.62MM M118 LONG RANGE [AA11]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	56,732,229	547,075	313,663	818,718	-	818,718
Gross/Weapon System Cost (<i>\$ in Millions</i>)	37.341	0.337	0.219	0.579	-	0.579
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	37.341	0.337	0.219	0.579	-	0.579
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	37.341	0.337	0.219	0.579	-	0.579

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	0.66	0.62	0.70	0.71	-	0.71

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	1.09	30,931,192	33.715	0.54	547,075	0.295	0.62	313,664	0.194	0.61	818,718	0.499	-	-	-	0.61	818,718	0.499
BOX METAL M2A2	-	-	-	10.38	1,204	0.012	12.49	690	0.009	13.06	1,801	0.024	-	-	-	13.06	1,801	0.024
<i>Subtotal: Recurring Cost</i>	-	-	<i>33.715</i>	-	-	<i>0.308</i>	-	-	<i>0.203</i>	-	-	<i>0.523</i>	-	-	-	-	-	<i>0.523</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>33.715</i>	-	-	<i>0.308</i>	-	-	<i>0.203</i>	-	-	<i>0.523</i>	-	-	-	-	-	<i>0.523</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	3.620	-	-	0.029	-	-	0.016	-	-	0.056	-	-	-	-	-	0.056
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<i>3.620</i>	-	-	<i>0.029</i>	-	-	<i>0.016</i>	-	-	<i>0.056</i>	-	-	-	-	-	<i>0.056</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.006	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	<i>0.006</i>	-	-	<i>0.001</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.66	56,732,229	37.341	0.62	547,075	0.337	0.70	313,663	0.219	0.71	818,718	0.579	-	-	-	0.71	818,718	0.579

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition	P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	118.112	9.655	6.801	5.193	-	5.193	9.499	10.566	10.934	11.130	-	181.890
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	118.112	9.655	6.801	5.193	-	5.193	9.499	10.566	10.934	11.130	-	181.890
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	118.112	9.655	6.801	5.193	-	5.193	9.499	10.566	10.934	11.130	-	181.890

(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 budget line includes CTG, Handgun, ALL TYPES.

DESCRIPTION:

(E96105) CTG, 9MM MARKING, M1041 (BLUE) is used for force on force training engagements. The cartridge can be fired with existing M9/M11 pistols and M4 rifles with use of a conversion kit. The M9 kit consists of a replacement barrel only. The M11 kit consists of a replacement barrel and recoil spring guide. The M4 kit consist of a replacement upper receiver for 9mm. A blue enameled portion of the M9, M11, and M4 barrels is visible through the ejection port of the weapons. The projectile leaves a mark upon impact (similar to paintball), enabling after action evaluation of training scenarios. It differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. The M1041 is required to hit targets accurately out to 12 meters. The cartridge has been safety certified to be fired in close proximity at properly protected human subjects. This item is Code A, approved for service use.

(E96107) CTG, 9MM MARKING, M1041 (RED) is used for force on force training engagements. The cartridge can be fired with existing M9/M11 pistols and M4 rifles with use of a conversion kit. The M9 kit consists of a replacement barrel only. The M11 kit consists of a replacement barrel and recoil spring guide. The M4 kit consist of a replacement upper receiver for 9mm. A blue enameled portion of the M9, M11 and M4 barrels is visible through the ejection port of the weapons. The projectile leaves a mark upon impact (similar to paintball), enabling after action evaluation of training scenarios. It differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. The M1041 is required to hit targets accurately out to 12 meters. The cartridge has been safety certified to be fired in close proximity at properly protected human subjects. This item is Code A, approved for service use.

(E05218) CTG, MODULAR HANDGUN SYSTEM AMMUNITION consists of four new cartridges – Ball XM1152, Special Purpose XM1153, Drilled Dummy Inert (DDI) XM1156 and Blank XM1157. The Ball cartridge is intended for use against enemy personnel, for training, and for force protection. The Special Purpose cartridge is required for use in situations where limited over-penetration of targets is necessary to reduce collateral damage. DDI cartridges are completely inert. They are plated and drilled for easy identification and used for training and weapon familiarization. Blank cartridges are used for K-9 training. These items are not yet type classified or approved for service use. The Modular Handgun System will also utilize three M1041 rounds - Blue, Red and Yellow through the use of a weapon adapter kit. This item is Code B, not approved for service use.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E05217) CTG,9MM SINGLE ROUND, Dummy Drill and Inert (DDI), M917A1 ammunition cartridge is an inert (no energetic) dummy round used as an ammunition training aid and for weapon familiarization. This item is Code A, approved for service use.</p> <p>(E05210) CTG,9MM BALL M882 (Combat Pack) cartridge contains a bullet comprised of a copper alloy jacket and a lead alloy core. The cartridge is identified by the plain bullet tip. The ammunition complies with NATO STANAG 4090 and is packed in military type packaging. It is used in M9 and M11 pistols. This item is Code A, approved for service use.</p> <p>(E99900) CTG,9MM BALL M882: COMMERCIAL PACK cartridge contains a bullet comprised of a copper alloy jacket and a lead alloy core. The cartridge is identified by the plain bullet tip. It is packed in commercial type packaging and is not intended for OCONUS shipment. It is used in the M9 and M11 pistols. This item is Code A, approved for service use.</p>		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition	P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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	E05210 / CTG, 9MM BALL, M882 (Combat Pack) [A363]		A	326,907K / 73.644	16,110,459 / 2.698	12,796,386 / 2.746	8,496,630 / 1.900	- / -	8,496,630 / 1.900
P-5	E05217 / CTG, 9MM SINGLE ROUND, (DDI), M917A1 [AB45]		A	259,720 / 0.545	- / -	- / -	76,758 / 0.150	- / -	76,758 / 0.150
P-40a	E05218 / CTG, MODULAR HANDGUN AMMO		B	- / -	6,541,419 / 3.154	- / -	- / -	- / -	- / -
P-5	E96105 / CTG, 9MM MARKING, M1041 (BLUE) [AB13]		A	2,629,673 / 1.501	132,948 / 0.081	151,252 / 0.100	155,790 / 0.102	- / -	155,790 / 0.102
P-5	E96107 / CTG, 9MM MARKING, M1041 (RED) [AB14]		A	1,742,206 / 1.047	212,584 / 0.129	96,522 / 0.065	50,402 / 0.033	- / -	50,402 / 0.033
P-5	E99900 / CTG, 9MM Ball, M882 (Commercial Pack) [AA49]		A	219,109K / 41.375	25,043,060 / 3.593	20,760,034 / 3.890	14,961,537 / 3.008	- / -	14,961,537 / 3.008
P-40	Total Gross/Weapon System Cost			- / 118.112	- / 9.655	- / 6.801	- / 5.193	- / -	- / 5.193

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$5.193 million supports procurement of 25.965 million cartridges.

(E05210) CTG 9MM BALL, M882 (Combat Pack) is a training standard item used in both training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.900 million supports the procurement of 8.497 million M882 Ball cartridges.

TYPE CLASSIFICATION DATE: 1985

(E05217) CTG, 9MM SINGLE ROUND, (DDI), M917A1 is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.150 million supports the procurement of 0.077 million M917A1 (DDI) cartridges.

TYPE CLASSIFICATION DATE: 1975

(E05218) CTG MODULAR HANDGUN SYSTEM AMMUNITION is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: PENDING

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E96105) CTG 9MM MARKING, M1041 (BLUE) is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.102 million supports the procurement of 0.156 million M1041 (Blue) cartridges. TYPE CLASSIFICATION DATE: 2009</p> <p>(E96107) CTG, 9MM MARKING, M1041 (RED) is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.033 million supports the procurement of 0.050 million M1041 (Red) cartridges. TYPE CLASSIFICATION DATE: 2009</p> <p>(E99900) CTG 9MM BALL M882 (COMMERCIAL PACK) is a training standard item packed commercially for training. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$3.008 million supports the procurement of 14.962 million M882 Ball cartridges. TYPE CLASSIFICATION DATE: 1985</p>		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types
		Item Number / Title [DODIC]: E05210 / CTG, 9MM BALL, M882 (Combat Pack) [A363]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	326,907K	16,110,459	12,796,386	8,496,630	-	8,496,630
Gross/Weapon System Cost (\$ in Millions)	73.644	2.698	2.746	1.900	-	1.900
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	73.644	2.698	2.746	1.900	-	1.900
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	73.644	2.698	2.746	1.900	-	1.900

(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)	0.23	0.17	0.21	0.22	-	0.22

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	73.644	0.14	16,110,459	2.255	0.17	12,796,386	2.175	0.16	8,496,630	1.359	-	-	-	0.16	8,496,630	1.359
BOX METAL M2A2	-	-	-	10.38	16,272	0.169	12.49	12,924	0.161	13.06	8,581	0.112	-	-	-	13.06	8,581	0.112
<i>Subtotal: Recurring Cost</i>	-	-	<i>73.644</i>	-	-	<i>2.424</i>	-	-	<i>2.337</i>	-	-	<i>1.472</i>	-	-	-	-	-	<i>1.472</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>73.644</i>	-	-	<i>2.424</i>	-	-	<i>2.337</i>	-	-	<i>1.472</i>	-	-	-	-	-	<i>1.472</i>
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.100	-	-	0.101	-	-	-	-	-	0.101
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	<i>0.100</i>	-	-	<i>0.101</i>	-	-	-	-	-	<i>0.101</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.273	-	-	0.308	-	-	0.326	-	-	-	-	-	0.326
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.273</i>	-	-	<i>0.308</i>	-	-	<i>0.326</i>	-	-	-	-	-	<i>0.326</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.001	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	<i>0.001</i>	-	-	<i>0.002</i>	-	-	<i>0.002</i>	-	-	-	-	-	<i>0.002</i>
Gross/Weapon System Cost	0.23	326,907K	73.644	0.17	16,110,459	2.698	0.21	12,796,386	2.746	0.22	8,496,630	1.900	-	-	-	0.22	8,496,630	1.900

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types	Item Number / Title [DODIC]: E05217 / CTG, 9MM SINGLE ROUND, (DDI), M917A1 [AB45]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	259,720	-	-	76,758	-	76,758
Gross/Weapon System Cost (\$ in Millions)	0.545	-	-	0.150	-	0.150
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.545	-	-	0.150	-	0.150
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.545	-	-	0.150	-	0.150

(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)	2.10	-	-	1.95	-	1.95

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	0.545	-	-	-	-	-	-	1.79	76,758	0.137	-	-	-	1.79	76,758	0.137
BOX METAL M2A2	-	-	-	-	-	-	-	-	-	13.06	77	0.001	-	-	-	13.06	77	0.001
<i>Subtotal: Recurring Cost</i>	-	-	0.545	-	-	-	-	-	-	-	-	0.138	-	-	-	-	-	0.138
<i>Subtotal: Hardware Cost</i>	-	-	0.545	-	-	-	-	-	-	-	-	0.138	-	-	-	-	-	0.138
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.009	-	-	-	-	-	0.009
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.009	-	-	-	-	-	0.009
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
Gross/Weapon System Cost	2.10	259,720	0.545	-	-	-	-	-	-	1.95	76,758	0.150	-	-	-	1.95	76,758	0.150

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30 **P-1 Line Item Number / Title:** EA3000 / CTG, Handgun, All Types **Aggregated Items Title:** Various

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)
CTG, MODULAR HANDGUN AMMO																				
E05218 / CTG, MODULAR HANDGUN AMMO	B		-	-	-	0.48	6,541,419	3.154	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: CTG, MODULAR HANDGUN AMMO			-	-	-	-	-	3.154	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	3.154	-	-	-	-	-	-	-	-	-	-	-	-

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

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types	Item Number / Title [DODIC]: E96105 / CTG, 9MM MARKING, M1041 (BLUE) [AB13]

ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)		2,629,673	132,948	151,252	155,790	-	155,790
Gross/Weapon System Cost (<i>\$ in Millions</i>)		1.501	0.081	0.100	0.102	-	0.102
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		1.501	0.081	0.100	0.102	-	0.102
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		1.501	0.081	0.100	0.102	-	0.102
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)		0.57	0.61	0.66	0.65	-	0.65

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 Cost																		
Recurring Cost																		
Complete Round	0.57	2,629,673	1.499	0.55	132,948	0.073	0.59	151,252	0.089	0.61	155,790	0.095	-	-	-	0.61	155,790	0.095
<i>Subtotal: Recurring Cost</i>	-	-	1.499	-	-	0.073	-	-	0.089	-	-	0.095	-	-	-	-	-	0.095
<i>Subtotal: Hardware Cost</i>	-	-	1.499	-	-	0.073	-	-	0.089	-	-	0.095	-	-	-	-	-	0.095
Support - Production Engineering Cost																		
Production Engineering	-	-	0.002	-	-	0.008	-	-	0.011	-	-	0.007	-	-	-	-	-	0.007
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.002	-	-	0.008	-	-	0.011	-	-	0.007	-	-	-	-	-	0.007
Gross/Weapon System Cost	0.57	2,629,673	1.501	0.61	132,948	0.081	0.66	151,252	0.100	0.65	155,790	0.102	-	-	-	0.65	155,790	0.102

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types	Item Number / Title [DODIC]: E96107 / CTG, 9MM MARKING, M1041 (RED) [AB14]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	1,742,206	212,584	96,522	50,402	-	50,402
Gross/Weapon System Cost (\$ in Millions)	1.047	0.129	0.065	0.033	-	0.033
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1.047	0.129	0.065	0.033	-	0.033
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1.047	0.129	0.065	0.033	-	0.033
<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)	0.60	0.61	0.67	0.65	-	0.65

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 Cost																		
Recurring Cost																		
Complete Round	0.55	1,742,206	0.958	0.56	212,584	0.119	0.60	96,522	0.058	0.61	50,402	0.031	-	-	-	0.61	50,402	0.031
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.958</i>	-	-	<i>0.119</i>	-	-	<i>0.058</i>	-	-	<i>0.031</i>	-	-	-	-	-	<i>0.031</i>
Subtotal: Hardware Cost	-	-	0.958	-	-	0.119	-	-	0.058	-	-	0.031	-	-	-	-	-	0.031
Support - Production Engineering Cost																		
Production Engineering	-	-	0.089	-	-	0.010	-	-	0.007	-	-	0.002	-	-	-	-	-	0.002
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<i>0.089</i>	-	-	<i>0.010</i>	-	-	<i>0.007</i>	-	-	<i>0.002</i>	-	-	-	-	-	<i>0.002</i>
Gross/Weapon System Cost	0.60	1,742,206	1.047	0.61	212,584	0.129	0.67	96,522	0.065	0.65	50,402	0.033	-	-	-	0.65	50,402	0.033

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: EA3000 / CTG, Handgun, All Types
		Item Number / Title [DODIC]: E99900 / CTG, 9MM Ball, M882 (Commercial Pack) [AA49]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 <i>(Units in Each)</i>	219,109K	25,043,060	20,760,034	14,961,537	-	14,961,537
Gross/Weapon System Cost <i>(\$ in Millions)</i>	41.375	3.593	3.890	3.008	-	3.008
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	41.375	3.593	3.890	3.008	-	3.008
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	41.375	3.593	3.890	3.008	-	3.008

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	0.19	0.14	0.19	0.20	-	0.20

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	0.18	219,109K	39.440	0.13	25,043,060	3.256	0.16	20,760,034	3.322	0.15	14,961,537	2.244	-	-	-	0.15	14,961,537	2.244
<i>Subtotal: Recurring Cost</i>	-	-	39.440	-	-	3.256	-	-	3.322	-	-	2.244	-	-	-	-	-	2.244
<i>Subtotal: Hardware Cost</i>	-	-	39.440	-	-	3.256	-	-	3.322	-	-	2.244	-	-	-	-	-	2.244
Support - Production Engineering Cost																		
Production Engineering	-	-	1.926	-	-	0.334	-	-	0.565	-	-	0.761	-	-	-	-	-	0.761
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	1.926	-	-	0.334	-	-	0.565	-	-	0.761	-	-	-	-	-	0.761
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.009	-	-	0.003	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.009	-	-	0.003	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
Gross/Weapon System Cost	0.19	219,109K	41.375	0.14	25,043,060	3.593	0.19	20,760,034	3.890	0.20	14,961,537	3.008	-	-	-	0.20	14,961,537	3.008

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition	P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	1,953.403	26.124	28.728	46.693	6.607	53.300	45.026	37.314	50.373	50.918	-	2,245.186
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,953.403	26.124	28.728	46.693	6.607	53.300	45.026	37.314	50.373	50.918	-	2,245.186
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,953.403	26.124	28.728	46.693	6.607	53.300	45.026	37.314	50.373	50.918	-	2,245.186

(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 budget line includes .50 CAL ALL TYPES.

(E06700) CTG .50 Caliber M8, Armor Piercing Incendiary (API) Cartridge, packed single round, is used in the M2 Machine Gun and the M107 Long Range Sniper Rifles. This cartridge is identified with a gray bullet tip. This is used in .50 Caliber Sniper training, a cost effective training round over the more expensive MK211 Long Range Sniper ammunition and minimizes training range limitations. This item is Code A, approved for service use.

(E06903) CTG .50 Caliber M8/M17 Tracer, Armor Piercing Incendiary (API) W/M9 Linked 100-round belts, is used in the M2 and M3 Machine Gun. M8 is identified with a silver bullet tip. M17 is identified with a brown bullet tip. This item is Code A, approved for service use.

(E07100) CTG .50 Caliber Cartridge Ball M33 is linked in 100 round belts with the M9 link for use in the M2/M3 Machine Gun. This round is also used in function test firing of the M2/M3 Machine Gun. This item is Code A, approved for service use.

(E07200) CTG.50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 linked 4 to 1 in a 100 round belt with the M9 link for use in M2/M3 Machine Gun against unarmored targets. The tracer cartridge permits observation of the bullet's trajectory to the point of impact. M17 has a brown bullet tip. M33 has a plain bullet tip. This item is Code A, approved for service use.

(E07302) CTG.50 Caliber Blank Cartridge, M1A1 linked in a 100 round belt with the M9 link for use in the M2/M3 Machine Gun. This round is a blank cartridge with a rosette crimp at the mouth used to simulate firing in training exercises in conjunction with the M19 Blank Firing Attachment (BFA). This item is Code A, approved for service use.

E72192) CTG.50 Caliber Dummy Single Round (DSR) is an inert cartridge used for M2A1 training exercises including ammunition/weapon familiarization, setting headspace and adjusting timing. The new Dummy, Drilled, Inert (DDI) configuration is both nickel plated and fluted for easy recognition and to distinguish the dummy ammunition visually from tactical ammunition. This item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition **P-1 Line Item Number / Title:**
E08000 / CTG, .50 Cal, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E06700 / CTG CAL .50 API M8, SINGLE ROUND [A531]		A	1,156,634 / 5.651	- / -	228,062 / 0.606	- / -	- / -	- / -
P-5	E06903 / CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK [A576]	P-5a, P-21	A	144,113K / 397.279	- / -	- / -	- / -	2,827,094 / 5.998	2,827,094 / 5.998
P-5	E07100 / CTG CAL .50 BALL M33 LINK [A555]	P-5a, P-21	A	126,143K / 256.033	1,945,147 / 4.625	2,754,050 / 6.100	4,712,152 / 10.450	- / -	4,712,152 / 10.450
P-5	E07200 / CTG CAL .50 4 BALL/1 TRACER W/M9 LINK [A557]	P-5a, P-21	A	631,573K / 1,185.840	6,774,473 / 19.222	7,994,113 / 19.823	14,362,475 / 33.990	285,915 / 0.609	14,648,390 / 34.599
P-5	E07302 / CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M [A598]		A	106,055K / 108.367	1,554,791 / 1.986	1,475,622 / 2.199	1,519,510 / 2.253	- / -	1,519,510 / 2.253
P-5	E72192 / CTG, .50 CAL SINGLE ROUND, (DDI), M2A1 F/M2 & M107 [AB48]		A	101,949 / 0.232	109,158 / 0.291	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,953.403	- / 26.124	- / 28.728	- / 46.693	- / 6.607	- / 53.300

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2017 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$46.693 million supports procurement of 20.594 million cartridges.
The FY 2017 OCO procurement dollars in the amount of \$6.607 million supports the procurement of 3.113 million.

(E06700) .50 Caliber M8, Armor Piercing Incendiary (API) Cartridge is a training standard item used in training and combat. The procurement supports annual training requirements and builds a war reserve inventory in accordance with the Army's procurement goals.
Type classification date: prior to 1960

(E06903) .50 Caliber M8/M17 Tracer, Armor Piercing Incendiary (API) W/M9 Linked 100-round belts, is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 OCO dollars are to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives and are provided in the amount of \$5.998 million supports the procurement of 2.827 million .50 Caliber M8 4/1 Tracer, Armor Piercing Incendiary (API) Cartridges.
Type classification date: M8 1944, M17 1950

(E07100) .50 Caliber Cartridge Ball M33 Linked is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$10.450 million supports the procurement of 4.712 million of the Ball M33 Link Cartridges.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>Type classification date: 1951</p> <p>(E07200) .50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 linked is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$33.990 million supports the procurement of 14.362 million .50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 linked Cartridges. FY 2017 OCO procurement dollars are to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives and are provided in the amount of \$.609 million supports the procurement of .286 million .50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 linked Cartridges. Type classification date: 1968</p> <p>(E07302) .50 Caliber Blank Cartridge, M1A1 linked is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$2.253 million supports the procurement of 1.520 million .50 Caliber Blank Cartridge, M1A1 Cartridges. Type classification date: 1980</p> <p>(E72192) .50 Caliber Dummy Single Round (DSR) is a training unique item not used in combat. The procurement supports annual training and builds a depot level in accordance with the Army's procurement goals. Type classification date: June 1963</p>		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types
		Item Number / Title [DODIC]: E06700 / CTG CAL .50 API M8, SINGLE ROUND [A531]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	1,156,634	-	228,062	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5.651	-	0.606	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5.651	-	0.606	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5.651	-	0.606	-	-	-

(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)	4.89	-	2.66	-	-	-

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	7.81	698,207	5.453	-	-	-	2.02	228,062	0.461	-	-	-	-	-	-	-	-	-
BOX METAL M2A2	-	-	-	-	-	-	12.49	2,326	0.029	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	5.453	-	-	-	-	-	0.490	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	5.453	-	-	-	-	-	0.490	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Verification Test	-	-	-	-	-	-	-	-	0.070	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	-	-	-	0.070	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.198	-	-	-	-	-	0.046	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.198	-	-	-	-	-	0.046	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	4.89	1,156,634	5.651	-	-	-	2.66	228,062	0.606	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types	Item Number / Title [DODIC]: E06903 / CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK [A576]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	144,113K	-	-	-	2,827,094	2,827,094
Gross/Weapon System Cost (<i>\$ in Millions</i>)	397.279	-	-	-	5.998	5.998
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	397.279	-	-	-	5.998	5.998
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	397.279	-	-	-	5.998	5.998

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	2.76	-	-	-	2.12	2.12

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	2.74	144,113K	395.460	-	-	-	-	-	-	-	-	-	1.98	2,827,094	5.598	1.98	2,827,094	5.598
BOX METAL M2A2 ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	13.06	28,836	0.377	13.06	28,836	0.377
<i>Subtotal: Recurring Cost</i>	-	-	394.868	-	-	-	-	-	-	-	-	-	-	-	5.974	-	-	5.974
<i>Subtotal: Hardware Cost</i>	-	-	394.868	-	-	-	-	-	-	-	-	-	-	-	5.974	-	-	5.974
Support - Production Engineering Cost																		
Production Engineering	-	-	2.411	-	-	-	-	-	-	-	-	-	-	-	0.023	-	-	0.023
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	2.411	-	-	-	-	-	-	-	-	-	-	-	0.023	-	-	0.023
Gross/Weapon System Cost	2.76	144,113K	397.279	-	-	-	-	-	-	-	-	-	2.12	2,827,094	5.998	2.12	2,827,094	5.998

^(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types					Item Number / Title [DODIC]: E06903 / CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK [A576]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)	✓	2017	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Oct 2017	2,827,094	1.98	Y		
BOX METAL M2A2	✓	2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2017	Jul 2017	28,836	13.06	Y		

(†) indicates the presence of a P-21

Remarks:
FY 2017 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY 2012.

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army																												Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30														P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types										Item Number / Title [DODIC]: E06903 / CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK [A576]											
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					
LOAD, ASSEMBLE, PACK (LAP)																																			
Prior Years Deliveries: 144112584																																			
✓	1	2017	ARMY	2.827	-	2.827																													
✓	1	2017	NSOF (+)	.551	-	.551																													
✓	1	2017	MC (+)	.134	-	.134																													
✓	1	2017	CG (+)	.100	-	.100																													
✓	1	2017	NAVSEA (+)	.745	-	.745																													
✓	1	2017	Total OCO	4.357	-	4.357																													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types
Item Number / Title [DODIC]: E06903 / CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK [A576]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYSTEMS (LCAAP) - INDEPENDENCE, MO	200	1,150,000	10,000,000	6	6	12	18	6	6	7	13

(±) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types
		Item Number / Title [DODIC]: E07100 / CTG CAL .50 BALL M33 LINK [A555]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	126,143K	1,945,147	2,754,050	4,712,152	-	4,712,152
Gross/Weapon System Cost (\$ in Millions)	256.033	4.625	6.100	10.450	-	10.450
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	256.033	4.625	6.100	10.450	-	10.450
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	256.033	4.625	6.100	10.450	-	10.450

(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)	2.03	2.38	2.21	2.22	-	2.22

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	2.33	105,778K	246.463	2.04	1,945,147	3.968	1.90	2,754,046	5.233	1.90	4,712,152	8.953	-	-	-	1.90	4,712,152	8.953
BOX METAL M2A2 ^(†)	-	-	-	10.38	19,840	0.206	12.49	28,091	0.351	13.06	48,064	0.628	-	-	-	13.06	48,064	0.628
<i>Subtotal: Recurring Cost</i>	-	-	246.463	-	-	4.174	-	-	5.584	-	-	9.581	-	-	-	-	-	9.581
<i>Subtotal: Hardware Cost</i>	-	-	246.463	-	-	4.174	-	-	5.584	-	-	9.581	-	-	-	-	-	9.581
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.066	-	-	0.004	-	-	0.010	-	-	-	-	-	0.010
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.066	-	-	0.004	-	-	0.010	-	-	-	-	-	0.010
Support - Production Engineering Cost																		
Production Engineering	-	-	9.570	-	-	0.251	-	-	0.509	-	-	0.856	-	-	-	-	-	0.856
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	9.570	-	-	0.251	-	-	0.509	-	-	0.856	-	-	-	-	-	0.856
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.001	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.001	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.133	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: E07100 / CTG CAL .50 BALL M33 LINK [A555]		

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: Support - Study & Analysis Cost</i>	-	-	-	-	-	0.133	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	2.03	126,143K	256.033	2.38	1,945,147	4.625	2.21	2,754,050	6.100	2.22	4,712,152	10.450	-	-	-	2.22	4,712,152	10.450

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types				Item Number / Title [DODIC]: E07100 / CTG CAL .50 BALL M33 LINK [A555]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	OLIN CORP WINCHESTER DIVISION / EAST ALTON, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Oct 2015	1,945,147	2.04	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Oct 2016	2,478,641	1.90	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	275,405	1.90	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Oct 2017	4,240,937	1.90	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2017	471,215	1.90	Y		
BOX METAL M2A2		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2015	Jun 2015	19,840	10.38	Y		
BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Jul 2016	28,091	12.49	Y		
BOX METAL M2A2		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2017	Jul 2017	48,064	13.06	Y		

^(†) indicates the presence of a P-21

Remarks:
FY 2015, FY 2016 AND FY 2017 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY 2012. FY 2016 AND FY 2017 LAP IS AN AVERAGE UNIT COST BETWEEN TWO CONTRACTORS.

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army																		Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types										Item Number / Title [DODIC]: E07100 / CTG CAL .50 BALL M33 LINK [A555]											

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								
LOAD, ASSEMBLE, PACK (LAP)																																						
Prior Years Deliveries: 105778000																																						
	1	2015	ARMY	1.945	1.945	-																																-
	2	2016	ARMY	2.479	-	2.479	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	.207	-
	2	2016	NSOF (+)	.545	-	.545	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	-
	2	2016	AF (+)	1.492	-	1.492	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	.124	-
	2	2016	NAVSEA (+)	.643	-	.643	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	.054	-	
	2	2016	Total	5.159	-	5.159	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	-	
	3	2016	ARMY	.275	-	.275	-	-	-	-	-	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	.023	-	
	3	2016	NSOF (+)	.061	-	.061	-	-	-	-	-	.025	-	.025	-	.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	3	2016	AF (+)	.166	-	.166	-	-	-	-	-	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	-	
	3	2016	NAVSEA (+)	.071	-	.071	-	-	-	-	-	.025	-	.025	-	.021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	3	2016	Total	.573	-	.573	-	-	-	-	-	.087	.037	.087	.037	.069	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	.037	-	
	2	2017	ARMY	4.241	-	4.241														.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	-	
	2	2017	AF (+)	1.268	-	1.268														.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	.106	-
	2	2017	NAVSEA (+)	.847	-	.847														.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	.071	-
	2	2017	Total	6.356	-	6.356														.530	.530	.530	.530	.530	.530	.530	.530	.530	.530	.530	.530	.530	.530	.530	.530	.530	-	
	3	2017	ARMY	.471	-	.471														.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	-
	3	2017	AF (+)	.141	-	.141														.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	.012	-
	3	2017	NAVSEA (+)	.094	-	.094														.030	-	.030	-	.034	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	2017	Total	.706	-	.706														.081	.051	.081	.051	.085	.051	.051	.051	.051	.051	.051	.051	.051	.051	.051	.051	.051	-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types
		Item Number / Title [DODIC]: E07100 / CTG CAL .50 BALL M33 LINK [A555]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	OLIN CORP WINCHESTER DIVISION - EAST ALTON, IL	200	1,000,000	2,500,000	6	6	9	15	6	6	4	10
2	ALLIANT TECHSYSTEMS (LCAAP) - INDEPENDENCE, MO	200	5,990,000	20,770,000	6	6	12	18	6	6	7	13
3	TO BE SELECTED - TBS01	200	5,990,000	20,770,000	6	6	12	18	6	6	6	12

(†) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types	Item Number / Title [DODIC]: E07200 / CTG CAL .50 4 BALL/1 TRACER W/M9 LINK [A557]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	631,573K	6,774,473	7,994,113	14,362,475	285,915	14,648,390
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,185.840	19.222	19.823	33.990	0.609	34.599
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,185.840	19.222	19.823	33.990	0.609	34.599
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,185.840	19.222	19.823	33.990	0.609	34.599

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	1.88	2.84	2.48	2.37	2.13	2.36

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	1.84	631,573K	1,162.094	2.46	6,774,473	16.665	1.99	7,994,113	15.908	1.99	14,362,476	28.581	1.99	285,915	0.569	1.99	14,648,391	29.150
BOX METAL M2A2 ^(†)	-	-	-	10.38	69,100	0.717	12.49	81,540	1.018	13.06	146,497	1.913	13.06	3,065	0.040	13.06	149,562	1.953
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,162.094</i>	-	-	<i>17.382</i>	-	-	<i>16.927</i>	-	-	<i>30.495</i>	-	-	<i>0.609</i>	-	-	<i>31.104</i>
<i>Subtotal: Hardware Cost</i>	-	-	1,162.094	-	-	17.382	-	-	16.927	-	-	30.495	-	-	0.609	-	-	31.104
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.120	-	-	0.042	-	-	0.150	-	-	0.196	-	-	-	-	-	0.196
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	0.120	-	-	0.042	-	-	0.150	-	-	0.196	-	-	-	-	-	0.196
Support - Product Improvement Cost																		
Environmental Initiatives	-	-	-	-	-	-	-	-	1.482	-	-	0.567	-	-	-	-	-	0.567
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	-	-	-	1.482	-	-	0.567	-	-	-	-	-	0.567
Support - Production Engineering Cost																		
Production Engineering	-	-	23.589	-	-	1.792	-	-	1.260	-	-	2.723	-	-	-	-	-	2.723
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	23.589	-	-	1.792	-	-	1.260	-	-	2.723	-	-	-	-	-	2.723
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.037	-	-	0.006	-	-	0.005	-	-	0.010	-	-	-	-	-	0.010

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types	Item Number / Title [DODIC]: E07200 / CTG CAL .50 4 BALL/1 TRACER W/M9 LINK [A557]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Quality Assurance Cost</i>	-	-	0.037	-	-	0.006	-	-	0.005	-	-	0.010	-	-	-	-	-	0.010
Gross/Weapon System Cost	1.88	631,573K	1,185.840	2.84	6,774,473	19.222	2.48	7,994,113	19.823	2.37	14,362,475	33.990	2.13	285,915	0.609	2.36	14,648,390	34.599

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types				Item Number / Title [DODIC]: E07200 / CTG CAL .50 4 BALL/1 TRACER W/M9 LINK [A557]					

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2015	Jul 2016	6,774,473	2.46	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Oct 2016	7,194,702	1.99	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	799,411	1.99	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	ALLIANT TECHSYSTEMS (LCAAP) / INDEPENDENCE, MO	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Oct 2017	13,183,552	1.99	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2017	1,464,839	1.99	Y		
BOX METAL M2A2		2015	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2015	Aug 2015	69,100	10.38	Y		
BOX METAL M2A2		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Jul 2016	81,540	12.49	Y		
BOX METAL M2A2		2017	BWAY CORPORATION / ATLANTA, GA	C / FFP	ROCK ISLAND ARSENAL, IL	May 2017	Jul 2017	149,562	13.06	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2016 AND FY 2017 LAP IS AN AVERAGE UNIT COST BETWEEN TWO CONTRACTORS. FY 2016 AND FY 2017 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY 2012.

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Exhibit P-21, Production Schedule: PB 2017 Army												Date: February 2016											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types						Item Number / Title [DODIC]: E07200 / CTG CAL .50 4 BALL/1 TRACER W/M9 LINK [A557]											

Cost Elements <i>(Units in Millions, * = < 500)</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			
2	2017	CG (+)	.025	-	.025																											.025
2	2017	NAVSEA (+)	.365	-	.365																										.365	
2	2017	Total	1.967	-	1.967																										1.967	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types										Item Number / Title [DODIC]: E07200 / CTG CAL .50 4 BALL/1 TRACER W/M9 LINK [A557]									

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									
LOAD, ASSEMBLE, PACK (LAP)																																							
Prior Years Deliveries: 631572725																																							
1	2015	ARMY	6.774	6.774	-	-	-	-																															
1	2015	AF (+)	.756	.375	.381	.125	.125	.131																															
1	2015	CG (+)	.100	.100	-	-	-	-																															
1	2015	NAVSEA (+)	4.778	2.378	2.400	.700	.700	1.000																															
1	2015	Total	12.409	9.628	2.781	.825	.825	1.131																															
1	2016	ARMY	7.195	-	7.195	.600	.600	.600	.600	.600	.600	.600	.600	.600	.600	.600																							
1	2016	NSOF (+)	.533	-	.533	-	-	-	.250	.283	-	-	-	-	-	-																							
1	2016	AF (+)	.810	-	.810	-	-	-	.150	.150	.150	.150	.150	.060	-	-																							
1	2016	CG (+)	.180	-	.180	-	-	-	.100	.080	-	-	-	-	-	-																							
1	2016	NAVSEA (+)	3.184	-	3.184	-	-	-	.692	.300	.300	.300	.300	.300	.300	.300	.391																						
1	2016	Total	11.902	-	11.902	.600	.600	.600	1.792	1.413	1.050	1.050	1.050	.960	.900	.900	.991																						
2	2016	ARMY	.799	-	.799	-	-	-	-	-	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067	.067
2	2016	NSOF (+)	.059	-	.059	-	-	-	-	-	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	
2	2016	AF (+)	.090	-	.090	-	-	-	-	-	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	
2	2016	CG (+)	.020	-	.020	-	-	-	-	-	.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	2016	NAVSEA (+)	.354	-	.354	-	-	-	-	-	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	.029	
2	2016	Total	1.322	-	1.322	-	-	-	-	-	.129	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	
1	2017	ARMY	13.184	-	13.184						A -	-	-	-	-	-	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	-	
1	2017	AF (+)	1.012	-	1.012						A -	-	-	-	-	-	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	-	
1	2017	CG (+)	.225	-	.225						A -	-	-	-	-	-	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	.019	-		
1	2017	NAVSEA (+)	3.285	-	3.285						A -	-	-	-	-	-	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	.274	-	
1	2017	Total	17.705	-	17.705						-	-	-	-	-	-	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475	
2	2017	ARMY	1.465	-	1.465						A -	-	-	-	-	-	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	.122	-		
2	2017	AF (+)	.112	-	.112						A -	-	-	-	-	-	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	.009	-		
											O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types				Item Number / Title [DODIC]: E07200 / CTG CAL .50 4 BALL/1 TRACER W/M9 LINK [A557]		

Cost Elements <i>(Units in Millions, * = < 500)</i>						Fiscal Year 2017												Fiscal Year 2018												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 6	B A L 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							
2	2017		CG (*)	.025	-	.025																																
2	2017		NAVSEA (*)	.365	-	.365																															-	
2	2017		Total	1.967	-	1.967																																-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types
		Item Number / Title [DODIC]: E07200 / CTG CAL .50 4 BALL/1 TRACER W/M9 LINK [A557]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYSTEMS (LCAAP) - INDEPENDENCE, MO	200	5,999,000	20,770,000	6	6	12	18	6	6	7	13
2	TO BE SELECTED - TBS01	200	5,990,000	20,770,000	6	6	12	18	6	6	6	12

(±) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types	Item Number / Title [DODIC]: E07302 / CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M [A598]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	106,055K	1,554,791	1,475,622	1,519,510	-	1,519,510
Gross/Weapon System Cost (\$ in Millions)	108.367	1.986	2.199	2.253	-	2.253
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	108.367	1.986	2.199	2.253	-	2.253
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	108.367	1.986	2.199	2.253	-	2.253

(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)	1.02	1.28	1.49	1.48	-	1.48

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	1.02	106,055K	108.176	1.06	1,554,791	1.648	1.20	1,475,624	1.771	1.20	1,519,510	1.823	-	-	-	1.20	1,519,510	1.823
BOX METAL M2A2	-	-	-	10.38	15,859	0.165	12.49	15,051	0.188	13.06	15,499	0.202	-	-	-	13.06	15,499	0.202
<i>Subtotal: Recurring Cost</i>	-	-	<i>108.176</i>	-	-	<i>1.813</i>	-	-	<i>1.959</i>	-	-	<i>2.026</i>	-	-	-	-	-	<i>2.026</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>108.176</i>	-	-	<i>1.813</i>	-	-	<i>1.959</i>	-	-	<i>2.026</i>	-	-	-	-	-	<i>2.026</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	0.191	-	-	0.173	-	-	0.240	-	-	0.226	-	-	-	-	-	0.226
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<i>0.191</i>	-	-	<i>0.173</i>	-	-	<i>0.240</i>	-	-	<i>0.226</i>	-	-	-	-	-	<i>0.226</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.002</i>	-	-	-	-	-	<i>0.002</i>
Gross/Weapon System Cost	1.02	106,055K	108.367	1.28	1,554,791	1.986	1.49	1,475,622	2.199	1.48	1,519,510	2.253	-	-	-	1.48	1,519,510	2.253

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08000 / CTG, .50 Cal, All Types	Item Number / Title [DODIC]: E72192 / CTG, .50 CAL SINGLE ROUND, (DDI), M2A1 F/M2 & M107 [AB48]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	101,949	109,158	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.232	0.291	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.232	0.291	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.232	0.291	-	-	-	-

(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)	2.28	2.67	-	-	-	-

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	2.20	101,949	0.224	2.48	109,158	0.271	-	-	-	-	-	-	-	-	-	-	-	-
BOX METAL M2A2	-	-	-	10.38	1,113	0.012	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.224	-	-	0.282	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	0.224	-	-	0.282	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.008	-	-	0.008	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.008	-	-	0.008	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	2.28	101,949	0.232	2.67	109,158	0.291	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition	P-1 Line Item Number / Title: E08900 / CTG, 20mm, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	401.081	-	-	7.000	1.077	8.077	7.000	7.000	7.000	-	-	430.158
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	401.081	-	-	7.000	1.077	8.077	7.000	7.000	7.000	-	-	430.158
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	401.081	-	-	7.000	1.077	8.077	7.000	7.000	7.000	-	-	430.158

(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 budget line includes 20MM ALL TYPES:

(E08909) The 20MM Multi-Purpose Tracer - Self-Destruct (MPT-SD) cartridge is an improved, fuzeless, pyrotechnically initiated 20mm High Explosive cartridge. The projectile consists of a heavy walled steel body charged with an explosive mix and an incendiary mix. The M940 is currently being employed as a force protection munition in the M61 cannon of the Land Based Phalanx Weapon System (LPWS) for Counter-Rocket, Artillery and Mortar (C-RAM). It is effective against light armor at 1,000 meters and against airborne and light surface targets at 2,000 meters. The projectile self destructs at 2,300 meters, minimizing collateral surface damage when engaging airborne targets. The M940 replaced the M246 High Explosive Incendiary-Tracer, Self Destroying (HEI-T-SD) as the primary air defense cartridge. This item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition **P-1 Line Item Number / Title:**
E08900 / CTG, 20mm, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E08909 / CTG 20MM MPT-SD M940 w/MK7 Link [AB07]	P-5a, P-21	A	- / 401.081	- / -	- / -	188,692 / 7.000	31,409 / 1.077	220,101 / 8.077
P-40	Total Gross/Weapon System Cost			- / 401.081	- / -	- / -	- / 7.000	- / 1.077	- / 8.077

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

(E08909) The 20MM Multi-Purpose Tracer - Self-Destruct (MPT-SD) cartridge is a training standard item used in both training and combat. FY 2017 Base procurement dollars in the amount of \$7.000 million supports the procurement of .189 million M940 cartridges. The FY 2017 OCO includes \$1.077 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative (ERI). The ERI procurement includes .031 million MPT-SD M940 w/MK7 Link cartridges.

TYPE CLASSIFICATION DATE: 1989

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08900 / CTG, 20mm, All Types
		Item Number / Title [DODIC]: E08909 / CTG 20MM MPT-SD M940 w/ MK7 Link [AB07]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 <i>(Units in Each)</i>	-	-	-	188,692	31,409	220,101
Gross/Weapon System Cost <i>(\$ in Millions)</i>	401.081	-	-	7.000	1.077	8.077
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	401.081	-	-	7.000	1.077	8.077
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	401.081	-	-	7.000	1.077	8.077

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	37.10	34.29	36.70

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	401.081	-	-	-	-	-	-	34.29	188,692	6.472	34.29	31,409	1.077	34.29	220,101	7.549
<i>Subtotal: Recurring Cost</i>	-	-	401.081	-	-	-	-	-	-	-	-	6.470	-	-	1.077	-	-	7.547
<i>Subtotal: Hardware Cost</i>	-	-	401.081	-	-	-	-	-	-	-	-	6.470	-	-	1.077	-	-	7.547
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.045	-	-	-	-	-	0.045
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.045	-	-	-	-	-	0.045
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.485	-	-	-	-	-	0.485
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.485	-	-	-	-	-	0.485
Gross/Weapon System Cost	-	-	401.081	-	-	-	-	-	-	37.10	188,692	7.000	34.29	31,409	1.077	36.70	220,101	8.077

(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: E08900 / CTG, 20mm, All Types					Item Number / Title [DODIC]: E08909 / CTG 20MM MPT-SD M940 w/ MK7 Link [AB07]				
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
COMPLETE ROUND ^(†)		2017	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	110,050	34.29	Y		
COMPLETE ROUND ^(†)		2017	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	110,051	34.29	Y		

^(†) indicates the presence of a P-21

Remarks:

This item is part of a combined 20mm, 25mm, 30mm contract FY 2013 - FY 2017. Quantity split is determined in year of execution between two contractors: General Dynamics Ordnance and Tactical Systems, Marion IL and Alliant Techsystems Operations, Plymouth MN.

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army													Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: E08900 / CTG, 20mm, All Types										Item Number / Title [DODIC]: E08909 / CTG 20MM MPT-SD M940 w/ MK7 Link [AB07]													

Cost Elements <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	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							
COMPLETE ROUND																																					
	1	2017	ARMY	110.050	-	110.050																							9.170	9.170	9.170	9.170	9.170	9.170	9.170	9.170	45.860
	2	2017	ARMY	110.051	-	110.051																							9.170	9.170	9.170	9.170	9.170	9.170	9.170	9.170	45.861
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: E08900 / CTG, 20mm, All Types										Item Number / Title [DODIC]: E08909 / CTG 20MM MPT-SD M940 w/ MK7 Link [AB07]									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019										Fiscal Year 2020										BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G
COMPLETE ROUND																														
	1	2017	ARMY	110.050	64.190	45.860	9.170	9.170	9.170	9.170	9.180																		-	
	2	2017	ARMY	110.051	64.190	45.861	9.170	9.170	9.170	9.170	9.181																		-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08900 / CTG, 20mm, All Types
		Item Number / Title [DODIC]: E08909 / CTG 20MM MPT-SD M940 w/ MK7 Link [AB07]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 ORD & TAC - MARION, IL	10,000	70,000	210,000	6	6	12	18	6	6	12	18
2	ALLIANT TECHSYS ARMAMENT SYS - PLYMOUTH, MN	10,000	70,000	210,000	6	6	12	18	6	6	12	18

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

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

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition **P-1 Line Item Number / Title:**
E08200 / CTG, 25MM, All Types

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

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>)	707.344	8.181	8.305	7.753	28.534	36.287	11.216	14.662	15.739	20.500	-	822.234
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	707.344	8.181	8.305	7.753	28.534	36.287	11.216	14.662	15.739	20.500	-	822.234
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	707.344	8.181	8.305	7.753	28.534	36.287	11.216	14.662	15.739	20.500	-	822.234

(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 budget line includes 25MM ALL TYPES:

(E08203) 25MM M793 Target Practice - Tracer Cartridge is a ballistically matched training round that simulates the M792 25mm High Explosive Incendiary - Tracer Cartridge and the MK210 High Explosive Incendiary - Tracer Cartridge. The M793 supports gunnery training for the Army's Bradley Fighting Vehicles, the United States Marine Corps Light Armored Vehicles, and the Navy's MK38 Deck Gun. The M793 is a percussion primed round. It is packed for the Army and USMC in linked belts of 30 cartridges per PA125 Container. It is packed for the Navy in linked belts of 55 cartridges in the CNU405 Container. The M28 metal link is used to belt M793 cartridges. This item is Code A, approved for service use.

(E08209) 25MM M794 is an inert training device. It physically mimics 25mm M792, M793, MK210, PGU-23 and PGU-25 ammunition. It is used for training of proper handling and loading of ammunition and for non-firing system training and checkout of 25mm weapons prior to exposing soldiers to live ammunition. This item is Code A, approved for service use.

(E92500) 25MM XM1083 High Explosive Air Burst(HEAB)The 25MM High Explosive Air Burst (HEAB), XM1083 is a programmable ammunition that is fired from the Individual Counter Defilade Weapon System. The XM1083 HEAB features a mid body fuze with front and aft warheads that can be programmed to airburst at a designated range to defeat defilade targets. The Individual Counter Defilade Weapon System dramatically increases lethality, range, and capability through the use of a family of low-velocity 25mm ammunition. This item is code B, not approved for service use.

(E08201) 25mm HEI-T M792 is a High Explosive Incendiary Tracer (HEI-T) cartridge, fired from the M242 Bushmaster automatic cannon mounted on the Army's Bradley Fighting Vehicles (BFV) and the United States Marine Corps Light Armored Vehicles. The M792 provides lethality against structures and vehicles. The defeat mechanism of the M792 is an explosively loaded, naturally fragmenting warhead with incendiary charge. This item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition **P-1 Line Item Number / Title:**
E08200 / CTG, 25MM, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E08201 / CTG 25MM HEI-T M792 [A975]	P-5a, P-21	A	8,131,000 / 253.515	- / -	- / -	- / -	333,809 / 28.534	333,809 / 28.534
P-5	E08203 / CTG 25MM TP-T M793 [A976]	P-5a, P-21	A	20,690,591 / 440.354	211,560 / 5.531	254,570 / 8.305	216,824 / 7.555	- / -	216,824 / 7.555
P-5	E08209 / CTG 25MM DUMMY M794 [A967]		A	382,000 / 8.968	93,494 / 2.650	- / -	- / -	- / -	- / -
P-5	E92500 / CTG, 25MM, XM1083 High Explosive Air Burst (HEAB) [AB69]		B	41,958 / 4.507	- / -	- / -	2,981 / 0.198	- / -	2,981 / 0.198
P-40	Total Gross/Weapon System Cost			- / 707.344	- / 8.181	- / 8.305	- / 7.753	- / 28.534	- / 36.287

*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:

FY 2017 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$7.753 million supports the procurement of .220 million 25mm cartridges and FY 2017 OCO includes \$28.534 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurement includes .334 million 25mm HEI-T M792 cartridges.

(E08203) CTG 25MM TP-T M793 - This is a training unique item not used in combat. The FY 2017 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$7.555 million supports the procurement of .217 million M793 cartridges.

TYPE CLASSIFICATION DATE: 1979

(E08209) CTG 25MM DUMMY M794 - This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1979

(E92500) The 25mm XM1083 High Explosive Air Burst(HEAB) This is a training standard item. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$.198 million supports the procurement of .003 million cartridges.

TYPE CLASSIFICATION DATE: Pending

(E08201) 25mm HEI-T M792 This is a war reserve item used in combat. The FY 2017 OCO includes \$28.534 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurement includes .334 million 25mm HEI-T M792 cartridges.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08201 / CTG 25MM HEI-T M792 [A975]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	8,131,000	-	-	-	333,809	333,809
Gross/Weapon System Cost (\$ in Millions)	253.515	-	-	-	28.534	28.534
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	253.515	-	-	-	28.534	28.534
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	253.515	-	-	-	28.534	28.534

(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)	31.18	-	-	-	85.48	85.48

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	30.94	8,131,000	251.551	-	-	-	-	-	-	-	-	-	73.75	333,809	24.618	73.75	333,809	24.618
Container PA125 ^(†)	68.67	3,000	0.206	-	-	-	-	-	-	-	-	-	81.14	11,282	0.915	81.14	11,282	0.915
<i>Subtotal: Recurring Cost</i>	-	-	251.779	-	-	-	-	-	-	-	-	-	-	-	25.534	-	-	25.534
<i>Subtotal: Hardware Cost</i>	-	-	251.779	-	-	-	-	-	-	-	-	-	-	-	25.534	-	-	25.534
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.379	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	1.000
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	0.379	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	1.000
Support - Production Engineering Cost																		
Production Engineering	-	-	1.357	-	-	-	-	-	-	-	-	-	-	-	2.001	-	-	2.001
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	1.357	-	-	-	-	-	-	-	-	-	-	-	2.001	-	-	2.001
Gross/Weapon System Cost	31.18	8,131,000	253.515	-	-	-	-	-	-	-	-	-	85.48	333,809	28.534	85.48	333,809	28.534

(†) indicates the presence of a P-5a

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08201 / CTG 25MM HEI-T M792 [A975]
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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
LOAD, ASSEMBLE, PACK (LAP) ^(†)	✓	2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	333,809	73.75	Y		
Container PA125	✓	2017	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Nov 2017	11,282	81.14	Y		

^(†) indicates the presence of a P-21

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08201 / CTG 25MM HEI-T M792 [A975]
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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																					
LOAD, ASSEMBLE, PACK (LAP)																																																				
Prior Years Deliveries: 8131000																																																				
✓	1	2017	ARMY	333.809	-	333.809							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.817	27.817	27.817	27.817	27.817	27.817	27.817	27.817	139.090							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td><td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td> </tr> </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 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08201 / CTG 25MM HEI-T M792 [A975]
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LOAD, ASSEMBLE, PACK (LAP)																															
Prior Years Deliveries: 8131000																															
✓	1	2017	ARMY	333.809	194.719	139.090	27.817	27.817	27.817	27.817	27.822																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types
		Item Number / Title [DODIC]: E08201 / CTG 25MM HEI-T M792 [A975]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	1,000	50,000	150,000	6	6	12	18	6	6	12	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08203 / CTG 25MM TP-T M793 [A976]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	20,690,591	211,560	254,570	216,824	-	216,824
Gross/Weapon System Cost (\$ in Millions)	440.354	5.531	8.305	7.555	-	7.555
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	440.354	5.531	8.305	7.555	-	7.555
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	440.354	5.531	8.305	7.555	-	7.555

(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)	21.28	26.14	32.62	34.84	-	34.84

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	21.28	20,690,591	440.354	21.90	211,560	4.633	27.32	254,570	6.955	28.17	216,824	6.109	-	-	-	28.17	216,824	6.109
CONTAINER PA125 ^(†)	-	-	-	61.72	7,248	0.447	69.21	8,722	0.604	81.14	7,328	0.595	-	-	-	81.14	7,328	0.595
<i>Subtotal: Recurring Cost</i>	-	-	440.296	-	-	5.081	-	-	7.559	-	-	6.703	-	-	-	-	-	6.703
<i>Subtotal: Hardware Cost</i>	-	-	440.296	-	-	5.081	-	-	7.559	-	-	6.703	-	-	-	-	-	6.703
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.163	-	-	0.229	-	-	-	-	-	0.229
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.163	-	-	0.229	-	-	-	-	-	0.229
Support - Production Engineering Cost																		
Production Engineering	-	-	0.058	-	-	0.448	-	-	0.580	-	-	0.620	-	-	-	-	-	0.620
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.058	-	-	0.448	-	-	0.580	-	-	0.620	-	-	-	-	-	0.620
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.003	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.003	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
Gross/Weapon System Cost	21.28	20,690,591	440.354	26.14	211,560	5.531	32.62	254,570	8.305	34.84	216,824	7.555	-	-	-	34.84	216,824	7.555

^(†) indicates the presence of a P-5a

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08203 / CTG 25MM TP-T M793 [A976]
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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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Feb 2016	105,780	21.90	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Jan 2016	105,780	21.90	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	127,285	27.32	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	127,285	27.32	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	108,412	28.17	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	108,412	28.17	Y		
CONTAINER PA125		2015	CONCO INC. / LOUISVILLE, KY	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2015	7,248	61.72	Y		
CONTAINER PA125		2016	CONCO INC. / LOUISVILLE, KY	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Nov 2016	8,722	69.21	Y		
CONTAINER PA125		2017	TO BE SELECTED / TBS03	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Nov 2017	7,328	81.14	Y		

^(†) indicates the presence of a P-21

Remarks:

This item is part of a combined 20mm, 25mm, 30mm contract FY 2013 - FY 2017. Quantity split is determined in year of execution between two contractors: General Dynamics Ordnance and Tactical Systems, Marion, IL and Alliant Techsystems Operations, Plymouth, MN. Type Classification Date: 1979

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08203 / CTG 25MM TP-T M793 [A976]
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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
LOAD, ASSEMBLE, PACK (LAP)																															
Prior Years Deliveries: 20690591																															
	1	2015	ARMY	105.780	-	105.780																							-		
	2	2015	ARMY	105.780	-	105.780																							-		
	3	2016	ARMY	127.285	-	127.285																							127.285		
	4	2016	ARMY	127.285	-	127.285																							127.285		
	3	2017	ARMY	108.412	-	108.412																							108.412		
	4	2017	ARMY	108.412	-	108.412																							108.412		

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08203 / CTG 25MM TP-T M793 [A976]
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Cost Elements <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	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
LOAD, ASSEMBLE, PACK (LAP)																														
Prior Years Deliveries: 20690591																														
	1	2015	ARMY	105.780	105.780	-																							-	
	2	2015	ARMY	105.780	105.780	-																							-	
	3	2016	ARMY	127.285	-	127.285	-	-	-	-	-	-	10.608	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	-	
	4	2016	ARMY	127.285	-	127.285	-	-	-	-	-	-	10.608	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	10.607	-	
	3	2017	ARMY	108.412	-	108.412							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	9.038	9.034	9.034	45.170
	4	2017	ARMY	108.412	-	108.412							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	9.038	9.034	9.034	45.170
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30 **P-1 Line Item Number / Title:** E08200 / CTG, 25MM, All Types **Item Number / Title [DODIC]:** E08203 / CTG 25MM TP-T M793 [A976]

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			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 20690591																																	
	1	2015	ARMY	105.780	105.780	-																							-				
	2	2015	ARMY	105.780	105.780	-																							-				
	3	2016	ARMY	127.285	127.285	-																							-				
	4	2016	ARMY	127.285	127.285	-																							-				
	3	2017	ARMY	108.412	63.242	45.170	9.034	9.034	9.034	9.034	9.034																		-				
	4	2017	ARMY	108.412	63.242	45.170	9.034	9.034	9.034	9.034	9.034																		-				
							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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types
		Item Number / Title [DODIC]: E08203 / CTG 25MM TP-T M793 [A976]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 ORD & TAC - MARION, IL	20,000	100,000	150,000	6	6	12	18	4	4	12	16
2	ALLIANT TECHSYS ARMAMENT SYS - PLYMOUTH, MN	80,000	100,000	150,000	6	6	12	18	6	6	12	18
3	TO BE SELECTED - TBS02	20,000	100,000	150,000	6	6	12	18	4	4	12	16
4	TO BE SELECTED - TBS01	80,000	100,000	150,000	6	6	12	18	6	6	12	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types	Item Number / Title [DODIC]: E08209 / CTG 25MM DUMMY M794 [A967]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	382,000	93,494	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8.968	2.650	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8.968	2.650	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8.968	2.650	-	-	-	-

(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)	23.48	28.34	-	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	22.65	382,000	8.653	22.47	93,494	2.101	-	-	-	-	-	-	-	-	-	-	-	-
Container PA125	-	-	-	61.72	3,160	0.195	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	8.652	-	-	2.296	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	8.652	-	-	2.296	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.254	-	-	0.132	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.254	-	-	0.132	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.062	-	-	0.219	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	0.062	-	-	0.219	-	-	-	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	23.48	382,000	8.968	28.34	93,494	2.650	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: E08200 / CTG, 25MM, All Types
		Item Number / Title [DODIC]: E92500 / CTG, 25MM, XM1083 High Explosive Air Burst (HEAB) [AB69]

ID Code (A=Service Ready, B=Not Service Ready) : B	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 (<i>Units in Each</i>)	41,958	-	-	2,981	-	2,981
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.507	-	-	0.198	-	0.198
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.507	-	-	0.198	-	0.198
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.507	-	-	0.198	-	0.198

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	107.42	-	-	66.42	-	66.42

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	103.01	41,958	4.322	-	-	-	-	-	-	62.64	2,981	0.187	-	-	-	62.64	2,981	0.187
<i>Subtotal: Recurring Cost</i>	-	-	4.322	-	-	-	-	-	-	-	-	0.187	-	-	-	-	-	0.187
<i>Subtotal: Hardware Cost</i>	-	-	4.322	-	-	-	-	-	-	-	-	0.187	-	-	-	-	-	0.187
Support - Production Engineering Cost																		
Production Engineering	-	-	0.181	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	0.008
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.181	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	0.008
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.004	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.004	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
Gross/Weapon System Cost	107.42	41,958	4.507	-	-	-	-	-	-	66.42	2,981	0.198	-	-	-	66.42	2,981	0.198

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	1,208.029	87.667	34.330	47.000	20.000	67.000	57.500	56.000	56.500	57.120	-	1,624.146
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,208.029	87.667	34.330	47.000	20.000	67.000	57.500	56.000	56.500	57.120	-	1,624.146
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,208.029	87.667	34.330	47.000	20.000	67.000	57.500	56.000	56.500	57.120	-	1,624.146

(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 budget line includes 30MM ALL TYPES:

(E06000)CTG, 30mm M848 is an inert training device. It physically mimics the M788 and M789 cartridges. It is used for training of proper handling and loading of ammunition and for non-firing system training and checkout of the 30mm M230 weapon prior to exposing soldiers to live ammunition. This item is Code A, approved for service use.

(E09900)CTG,30mm M789 High Explosive - Dual Purpose Cartridge is the only qualified combat cartridge for use in the Apache Helicopter's M230 Chain Gun. It is also used by SOCOM, fired from the MH-60 Blackhawk helicopter. The M789 cartridge consists of a projectile containing explosive, a shaped charge liner, a M759 point-detonating fuze, aluminum cartridge case, propellant and a PA520 electric primer. The shaped charge allows the M789 to defeat light armor, and the steel projectile body provides an anti-personnel capability. M789 cartridges are packed in Bulk Ammunition Strips (BAS), 110 cartridges per M592 container. This item is Code A, approved for service use

(E10100)CTG,30mm M788 30mm Target Practice cartridge is the only qualified training cartridge for use in the Apache and Blackhawk Helicopter's M230 Chain Gun. The M788 consists of an inert projectile, propellant utilizes a PA520 electric primer and a lightweight aluminum cartridge case. M788 cartridges are packed in Bulk Ammunition Strips (BAS), 110 cartridges per M592 container. This item is Code A, approved for service use.

(E09191) 30x173mm MK317 is a Target Practice Discarding Sabot with Tracer (TP-T) cartridge. The MK317 cartridge consists of an inert projectile, molded plastic sabot, a pusher base, a tracer, propellant, an M36A2 percussion primer, and an aluminum cartridge case. The MK317 cartridges are packed 30 cartridges per M592 ammunition container. This item is Code B, not approved for service use.

(E07306)30x173mm MK239 Target Practice with Tracer (TP-T) cartridge is a Navy qualified training cartridge that is ballistically matched to the MK238 and MK266 High Explosive Incendiary with Tracer (HEI-T) cartridges. The MK239 cartridge consists of an inert projectile, a glass-reinforced nylon rotating band, a tracer, propellant, an M36A2 percussion primer, and an aluminum cartridge case. The MK239 cartridges are packed 30 cartridges per M592 ammunition container. This item is Code B, not approved for Army use.

(E09292)30x173mm MK258 Armor Piercing Fin Stabilized Discarding Sabot with Tracer (APFSDS-T) cartridge is a Navy qualified tactical cartridge consisting of a high-density inert tungsten alloy long-rod penetrator sub-projectile held in a three-petal aluminum sabot, a plastic nose cap and obturator, a tracer, propellant, and DNAG 8235 percussion primer. The MK258 cartridges are packed 30 cartridges per M592 ammunition container. This item is code B, not approved for Army use.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
ID Code (A=Service Ready, B=Not Service Ready):	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>(E07406) 30x173mm MK266 High Explosive Incendiary with Tracer (HEI-T) cartridge is a Navy qualified tactical cartridge consisting of a steel projectile body assembly crimped into an aluminum cartridge case, PBXN-5 explosive, a zirconium pellet, ATK151-LD fuze, a tracer, AFP-001 propellant, and an M36A2 percussion primer. The MK266 cartridges are packed 30 cartridges per M592 container. This item is code B, not approved for Army use.</p>		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition

P-1 Line Item Number / Title:
ER8120 / CTG, 30MM, ALL TYPES

ID Code (A=Service Ready, B=Not Service Ready): **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	E06000 / CTG 30MM DUMMY M848 [B133]		A	41,700 / 2.666	- / -	24,738 / 0.637	- / -	- / -	- / -
P-5	E07306 / CTG, 30MM, TP-T, Mk239, single		B	- / -	- / -	- / -	55,191 / 4.000	- / -	55,191 / 4.000
P-5	E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238	P-5a, P-21	B	- / -	- / -	- / -	48,439 / 6.000	- / -	48,439 / 6.000
P-5	E09191 / CTG, 30MM, TPFSDS-T, Mk317 (sabot trnr), single		B	- / -	- / -	- / -	13,914 / 2.000	- / -	13,914 / 2.000
P-5	E09292 / CTG, 30MM, APFSDS-T, Mk258, single	P-5a, P-21	B	- / -	- / -	- / -	19,560 / 13.000	- / -	19,560 / 13.000
P-5	E09900 / CTG 30MM HEDP M789 [B129]	P-5a, P-21	A	1,921,290K / 884.867	765,112 / 65.652	77,568 / 10.033	- / -	170,138 / 20.000	170,138 / 20.000
P-5	E10100 / CTG 30MM TP M788 [B118]	P-5a, P-21	A	948,372K / 320.496	1,096,218 / 22.015	1,027,226 / 23.660	916,650 / 22.000	- / -	916,650 / 22.000
P-40	Total Gross/Weapon System Cost			- / 1,208.029	- / 87.667	- / 34.330	- / 47.000	- / 20.000	- / 67.000

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2017 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$47.000 million supports the procurement of 1.054 million cartridges.
The FY 2017 OCO procurement dollars in the amount of \$20.000 million supports the procurement of .170 million cartridges.

(E06000) CTG,30MM DUMMY M848 - This is a training unique item not used in combat. The procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1991

(E09900) CTG, 30mm HEDP M789 - This is a training standard item used in both training and combat. Funds are required to replenish munitions expended in combat operations by Apache helicopters in OFS-Afghanistan theater. The FY 2017 procurement request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2017 OCO dollars in the amount of \$20.000 million supports the procurement of .170 million M789 cartridges.

TYPE CLASSIFICATION DATE: 1962

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
ID Code (A=Service Ready, B=Not Service Ready):	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>(E10100) CTG, 30mm TP M788 - This is a training unique item not used in combat. The FY 2017 procurement request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 procurement dollars in the amount of \$22.000 million supports the procurement of .917 million M788 cartridges.</p> <p>TYPE CLASSIFICATION DATE: 1982</p> <p>(E09191) The 30x173mm MK317 - This is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 procurement dollars in the amount of \$2.000 million supports the procurement of .014 million MK317 cartridges.</p> <p>TYPE CLASSIFICATION DATE: PENDING</p> <p>(E07306) The 30x173mm MK239 - This is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 procurement dollars in the amount of \$4.000 million supports the procurement of .055 million MK239 cartridges.</p> <p>TYPE CLASSIFICATION DATE: PENDING</p> <p>(E09292) The 30x173mm MK258 - This is a training standard item used in both training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 procurement dollars in the amount of \$13.000 million supports the procurement of .020 million MK258 cartridges.</p> <p>TYPE CLASSIFICATION DATE: PENDING</p> <p>(E07406) The 30x173mm MK266 - This is a training standard item used in both training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 procurement dollars in the amount of \$6.000 million supports the procurement of .048 million MK266 cartridges.</p> <p>TYPE CLASSIFICATION DATE: PENDING</p>		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
		Item Number / Title [DODIC]: E06000 / CTG 30MM DUMMY M848 [B133]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 <i>(Units in Each)</i>	41,700	-	24,738	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	2.666	-	0.637	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	2.666	-	0.637	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	2.666	-	0.637	-	-	-

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	25.75	-	-	-

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 Cost																		
Recurring Cost																		
Complete Round	57.12	41,700	2,382	-	-	-	24.58	24,738	0.608	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2,382	-	-	-	-	-	0.608	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	2,382	-	-	-	-	-	0.608	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.280	-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.280	-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.004	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.004	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	41,700	2,666	-	-	-	25.75	24,738	0.637	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E07306 / CTG, 30MM, TP-T, Mk239, single

ID Code (A=Service Ready, B=Not Service Ready) : B	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 <i>(Units in Each)</i>	-	-	-	55,191	-	55,191
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	4.000	-	4.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	4.000	-	4.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	4.000	-	4.000

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	72.48	-	72.48

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 Cost																		
Recurring Cost																		
Complete Round	-	-	-	-	-	-	-	-	-	60.00	55,191	3.311	-	-	-	60.00	55,191	3.311
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.311	-	-	-	-	-	3.311
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.311	-	-	-	-	-	3.311
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.679	-	-	-	-	-	0.679
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.679	-	-	-	-	-	0.679
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	72.48	55,191	4.000	-	-	-	72.48	55,191	4.000

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238

ID Code (A=Service Ready, B=Not Service Ready) : B	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 <i>(Units in Each)</i>	-	-	-	48,439	-	48,439
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	6.000	-	6.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	6.000	-	6.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	6.000	-	6.000

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	123.87	-	123.87

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	108.00	48,439	5.231	-	-	-	108.00	48,439	5.231
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.231	-	-	-	-	-	5.231
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.231	-	-	-	-	-	5.231
Support Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	0.759	-	-	-	-	-	0.759
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
<i>Subtotal: Support Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.769	-	-	-	-	-	0.769
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	123.87	48,439	6.000	-	-	-	123.87	48,439	6.000

(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES					Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238				
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
COMPLETE ROUND ^(†)		2017	TO BE SLECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	48,439	108.00	N		

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30								P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES								Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238											

O C O		M F R #	FY	SERVICE	PROC QTY	ACCEP PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Fiscal Year 2017														Fiscal Year 2018										B A L A N C E
							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		

COMPLETE ROUND																																												
1	2017	ARMY	48.439	-	48.439						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.035	4.035	4.035	4.035	4.035	4.035	4.035	20.194

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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238	

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

COMPLETE ROUND																																	
1	2017	ARMY	48.439	28.245	20.194	4.035	4.035	4.035	4.035	4.054																							-

						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
		Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SLECTED - TBS01	68,000	85,000	150,000	6	6	12	18	6	6	12	18

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

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

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
		Item Number / Title [DODIC]: E09191 / CTG, 30MM, TPFSDS-T, Mk317 (sabot trnr), single

ID Code (A=Service Ready, B=Not Service Ready) : B	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 <i>(Units in Each)</i>	-	-	-	13,914	-	13,914
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	2.000	-	2.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	2.000	-	2.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	2.000	-	2.000

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	143.74	-	143.74

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 Cost																		
Recurring Cost																		
Load Assembly Pack (LAP)	-	-	-	-	-	-	-	-	-	89.00	13,914	1.238	-	-	-	89.00	13,914	1.238
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.238	-	-	-	-	-	1.238
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.238	-	-	-	-	-	1.238
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.752	-	-	-	-	-	0.752
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.752	-	-	-	-	-	0.752
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	143.74	13,914	2.000	-	-	-	143.74	13,914	2.000

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E09292 / CTG, 30MM, APFSDS-T, Mk258, single

ID Code (A=Service Ready, B=Not Service Ready) : B	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 (<i>Units in Each</i>)	-	-	-	19,560	-	19,560
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	13.000	-	13.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	13.000	-	13.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	13.000	-	13.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	664.62	-	664.62

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	611.00	19,560	11,951	-	-	-	611.00	19,560	11,951
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	11,951	-	-	-	-	-	11,951
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	11,951	-	-	-	-	-	11,951
Support Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	1.039	-	-	-	-	-	1.039
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
<i>Subtotal: Support Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.049	-	-	-	-	-	1.049
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	664.62	19,560	13,000	-	-	-	664.62	19,560	13,000

(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES				Item Number / Title [DODIC]: E09292 / CTG, 30MM, APFSDS-T, Mk258, single					
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
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	19,560	611.00	N		

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army																										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:										
2034A / 01 / 30										ER8120 / CTG, 30MM, ALL TYPES										E09292 / CTG, 30MM, APFSDS-T, Mk258, single										
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
COMPLETE ROUND																														
	1	2017	ARMY	19.560	-	19.560																							8.150	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES										Item Number / Title [DODIC]: E09292 / CTG, 30MM, APFSDS-T, Mk258, single									

Cost Elements <i>(Units in Thousands)</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

COMPLETE ROUND																																				
1	2017	ARMY		19.560	11.410	8.150	1.630	1.630	1.630	1.630	1.630																									-

							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
Item Number / Title [DODIC]: E09292 / CTG, 30MM, APFSDS-T, Mk258, single		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	24,000	30,000	65,000	6	6	12	18	6	6	12	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E09900 / CTG 30MM HEDP M789 [B129]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	1,921,290K	765,112	77,568	-	170,138	170,138
Gross/Weapon System Cost (<i>\$ in Millions</i>)	884.867	65.652	10.033	-	20.000	20.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	884.867	65.652	10.033	-	20.000	20.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	884.867	65.652	10.033	-	20.000	20.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	0.46	85.81	129.34	-	117.55	117.55

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	0.46	1,921,290K	884.867	82.19	765,112	62.887	105.31	77,568	8.169	-	-	-	108.86	170,138	18.521	108.86	170,138	18.521
<i>Subtotal: Recurring Cost</i>	-	-	883.793	-	-	62.885	-	-	8.169	-	-	-	-	-	18.521	-	-	18.521
<i>Subtotal: Hardware Cost</i>	-	-	883.793	-	-	62.885	-	-	8.169	-	-	-	-	-	18.521	-	-	18.521
Support - Production Engineering Cost																		
Production Engineering	-	-	1.074	-	-	2.757	-	-	1.853	-	-	-	-	-	1.468	-	-	1.468
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	1.074	-	-	2.757	-	-	1.853	-	-	-	-	-	1.468	-	-	1.468
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.010	-	-	0.011	-	-	-	-	-	0.011	-	-	0.011
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.010	-	-	0.011	-	-	-	-	-	0.011	-	-	0.011
Gross/Weapon System Cost	0.46	1,921,290K	884.867	85.81	765,112	65.652	129.34	77,568	10.033	-	-	-	117.55	170,138	20.000	117.55	170,138	20.000

(†) indicates the presence of a P-5a

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E09900 / CTG 30MM HEDP M789 [B129]
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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
COMPLETE ROUND ^(†)		2015	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2016	382,556	82.20	Y		
COMPLETE ROUND ^(†)		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Oct 2016	382,556	82.20	Y		
COMPLETE ROUND ^(†)		2016	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Aug 2017	38,784	105.31	Y		
COMPLETE ROUND ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Aug 2017	38,784	105.31	Y		
COMPLETE ROUND ^(†)	✓	2017	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	85,069	108.86	Y		
COMPLETE ROUND ^(†)	✓	2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	85,069	108.86	Y		

^(†) indicates the presence of a P-21

Remarks:

This item is part of a combined 20mm, 25mm, 30mm contract FY 2013 - FY 2017. Quantity split is determined in year of execution between two contractors: General Dynamics Ordnance and Tactical Systems, Marion, IL and Alliant Techsystems Operations, Plymouth, MN. This is a training standard item used in training and combat. FY 2015 and FY 2016 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals. Type Classification Date: 1962

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30 **P-1 Line Item Number / Title:** ER8120 / CTG, 30MM, ALL TYPES **Item Number / Title [DODIC]:** E09900 / CTG 30MM HEDP M789 [B129]

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		S E P
COMPLETE ROUND																															
Prior Years Deliveries: 1921290000																															
	1	2015	ARMY	382.556	-	382.556																							382.556		
	2	2015	ARMY	382.556	-	382.556																							382.556		
	3	2016	ARMY	38.784	-	38.784																							38.784		
	4	2016	ARMY	38.784	-	38.784																							38.784		
✓	3	2017	ARMY	85.069	-	85.069																							85.069		
✓	4	2017	ARMY	85.069	-	85.069																							85.069		

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E09900 / CTG 30MM HEDP M789 [B129]
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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
COMPLETE ROUND																															
Prior Years Deliveries: 1921290000																															
	1	2015	ARMY	382.556	-	382.556	-	10.071	94.156	85.424	40.477	40.476	40.476	40.476	31.000															-	
	2	2015	ARMY	382.556	-	382.556	21.567	25.000	40.000	65.000	53.568	35.484	35.484	35.484	35.484	35.485														-	
	3	2016	ARMY	38.784	-	38.784	-	-	-	-	-	-	-	-	-	-	6.464	6.464	6.464	6.464	6.464	6.464	6.464							-	
	4	2016	ARMY	38.784	-	38.784	-	-	-	-	-	-	-	-	-	-	6.464	6.464	6.464	6.464	6.464	6.464	6.464							-	
✓	3	2017	ARMY	85.069	-	85.069						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.445		
✓	4	2017	ARMY	85.069	-	85.069						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.445		

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30 **P-1 Line Item Number / Title:** ER8120 / CTG, 30MM, ALL TYPES **Item Number / Title [DODIC]:** E09900 / CTG 30MM HEDP M789 [B129]

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2019												Fiscal Year 2020												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP 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
COMPLETE ROUND																															
Prior Years Deliveries: 1921290000																															
	1	2015	ARMY	382.556	382.556	-																									
	2	2015	ARMY	382.556	382.556	-																									
	3	2016	ARMY	38.784	38.784	-																									
	4	2016	ARMY	38.784	38.784	-																									
✓	3	2017	ARMY	85.069	49.624	35.445	7.089	7.089	7.089	7.089	7.089																				
✓	4	2017	ARMY	85.069	49.624	35.445	7.089	7.089	7.089	7.089	7.089																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES
		Item Number / Title [DODIC]: E09900 / CTG 30MM HEDP M789 [B129]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYS ARMAMENT SYS - PLYMOUTH, MN	68,000	85,000	150,000	6	6	12	18	6	6	12	18
2	GENERAL DYNAMICS ORD & TAC - MARION, IL	24,000	30,000	65,000	6	6	12	18	6	6	12	18
3	TO BE SELECTED - TBS02	24,000	30,000	50,000	6	6	12	18	6	6	12	18
4	TO BE SELECTED - TBS01	68,000	85,000	150,000	6	6	12	18	6	6	12	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E10100 / CTG 30MM TP M788 [B118]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	948,372K	1,096,218	1,027,226	916,650	-	916,650
Gross/Weapon System Cost (\$ in Millions)	320.496	22.015	23.660	22.000	-	22.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	320.496	22.015	23.660	22.000	-	22.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	320.496	22.015	23.660	22.000	-	22.000

(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)	0.34	20.08	23.03	24.00	-	24.00

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	0.33	948,372K	312.963	18.54	1,096,218	20.324	21.41	1,027,226	21.993	21.98	916,650	20.148	-	-	-	21.98	916,650	20.148
Subtotal: Recurring Cost	-	-	312.963	-	-	20.324	-	-	21.993	-	-	20.148	-	-	-	-	-	20.148
Subtotal: Hardware Cost	-	-	312.963	-	-	20.324	-	-	21.993	-	-	20.148	-	-	-	-	-	20.148
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	-	-	-	0.211	-	-	-	-	-	0.211
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	-	-	-	0.211	-	-	-	-	-	0.211
Support - Production Engineering Cost																		
Production Engineering	-	-	7.533	-	-	1.581	-	-	1.653	-	-	1.625	-	-	-	-	-	1.625
Subtotal: Support - Production Engineering Cost	-	-	7.533	-	-	1.581	-	-	1.653	-	-	1.625	-	-	-	-	-	1.625
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.010	-	-	0.014	-	-	0.016	-	-	-	-	-	0.016
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.010	-	-	0.014	-	-	0.016	-	-	-	-	-	0.016
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.34	948,372K	320.496	20.08	1,096,218	22.015	23.03	1,027,226	23.660	24.00	916,650	22.000	-	-	-	24.00	916,650	22.000

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E10100 / CTG 30MM TP M788 [B118]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E10100 / CTG 30MM TP M788 [B118]
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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
COMPLETE ROUND ^(†)		2015	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2015	438,487	18.54	Y		
COMPLETE ROUND ^(†)		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2015	657,731	18.54	Y		
COMPLETE ROUND ^(†)		2016	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	513,613	21.41	Y		
COMPLETE ROUND ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	513,613	21.41	Y		
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	458,325	21.98	Y		
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	458,325	21.98	Y		

^(†) indicates the presence of a P-21

Remarks:

This item is part of a combined 20mm, 25mm, 30mm contract FY 2013 - FY 2017. Quantity split is determined in year of execution between two contractors: General Dynamics Ordnance and Tactical Systems, Marion, IL and Alliant Techsystems Operations, Plymouth, MN. This is a training unique item not used in combat. FY 2015, FY 2016 and FY 2017 procurements support annual training and build at depot level in accordance with the Army's procurement goals. Type Classification Date: 1982

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30 **P-1 Line Item Number / Title:** ER8120 / CTG, 30MM, ALL TYPES **Item Number / Title [DODIC]:** E10100 / CTG 30MM TP M788 [B118]

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		S E P
COMPLETE ROUND																															
Prior Years Deliveries: 948372000																															
	1	2015	ARMY	438.487	-	438.487																									
	2	2015	ARMY	657.731	-	657.731																									
	3	2016	ARMY	513.613	-	513.613																									
	4	2016	ARMY	513.613	-	513.613																									
	3	2017	ARMY	458.325	-	458.325																									
	4	2017	ARMY	458.325	-	458.325																									

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E10100 / CTG 30MM TP M788 [B118]
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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					
COMPLETE ROUND																																			
Prior Years Deliveries: 948372000																																			
	1	2015	ARMY	438.487	438.487	-																							-						
	2	2015	ARMY	657.731	657.731	-																							-						
	3	2016	ARMY	513.613	-	513.613	-	-	-	-	-	42.802	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	-							
	4	2016	ARMY	513.613	-	513.613	-	-	-	-	-	42.802	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	-							
	3	2017	ARMY	458.325	-	458.325						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.202	38.193	38.193	38.193	38.193	38.193	38.193	190.965
	4	2017	ARMY	458.325	-	458.325						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.202	38.193	38.193	38.193	38.193	38.193	38.193	190.965
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30 **P-1 Line Item Number / Title:** ER8120 / CTG, 30MM, ALL TYPES **Item Number / Title [DODIC]:** E10100 / CTG 30MM TP M788 [B118]

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2019												Fiscal Year 2020												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
COMPLETE ROUND																															
Prior Years Deliveries: 948372000																															
1		2015	ARMY	438.487	438.487	-																									
2		2015	ARMY	657.731	657.731	-																									
3		2016	ARMY	513.613	513.613	-																									
4		2016	ARMY	513.613	513.613	-																									
3		2017	ARMY	458.325	267.360	190.965	38.193	38.193	38.193	38.193	38.193																				
4		2017	ARMY	458.325	267.360	190.965	38.193	38.193	38.193	38.193	38.193																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E10100 / CTG 30MM TP M788 [B118]
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYS ARMAMENT SYS - PLYMOUTH, MN	96,000	120,000	200,000	6	6	12	18	6	6	12	18
2	GENERAL DYNAMICS ORD & TAC - MARION, IL	96,000	120,000	200,000	6	6	12	18	6	6	12	18
3	TO BE SELECTED - TBS02	96,000	120,000	200,000	6	6	12	18	6	6	12	18
4	TO BE SELECTED - TBS01	96,000	120,000	200,000	6	6	12	18	6	6	12	18

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

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

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition **P-1 Line Item Number / Title:**
ER8001 / CTG, 40MM, All Types

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

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>)	2,262.944	49.084	72.972	118.178	7.423	125.601	119.189	93.000	103.229	104.166	-	2,930.185
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,262.944	49.084	72.972	118.178	7.423	125.601	119.189	93.000	103.229	104.166	-	2,930.185
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,262.944	49.084	72.972	118.178	7.423	125.601	119.189	93.000	103.229	104.166	-	2,930.185

(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 budget line includes 40MM ALL TYPES:

(E11800) CTG,40mm M430A1 is a High-Explosive Dual Purpose cartridge (HEDP), and is fired from a MK19 Grenade Machine Gun at a max range of 2,200 meters. It is capable of penetrating three inches of steel armor and inflicting personnel casualties in the target area. This item is Code A, approved for service use.

(E12502) CTG,40mm M385A1 practice cartridge is a fixed round of ammunition consisting of a one-piece solid aluminum projectile body with copper rotating band and is fired from a MK19 Grenade Machine Gun at a max range of 2,200 meters. The cartridge is used as training ammunition. This item is Code A, approved for service use.

(E12601) CTG,40mm M433 is a High Explosive Dual Purpose impact type round designed to penetrate lightly armored targets and perform an anti-personnel mission, and is compatible with the M203, M320, and M79 Grenade Launchers. Upon impact, the detonator triggers the spitback shaped charge and produces a jet blast that detonates the high explosive bursting charge. Detonation of the bursting charge forms an armor-piercing jet of molten metal and fragmentation of the projectile body. This item is Code A, approved for service use.

(E74200) CTG,40mm Practice M781 is a training cartridge for the M203, M320, and M79 Grenade Launchers. It is a fixed round of ammunition consisting of zinc-alloy projectile body with a rotating band and cartridge case assembly. A hollow polystyrene ogive is filled with high visibility yellow-orange dye. A .38 caliber blank cartridge is press-fitted into the base of the cartridge case and provides gas pressure needed to propel projectile through the launcher barrel. This item is Code A, approved for service use.

(E74315) CTG,40mm Practice M918/M385A1 Mixed Belt cartridge configuration for the MK19 Grenade Machine Gun is a high velocity training projectile with realistic signature effects providing sufficient flash, smoke and sound upon impact to be seen/heard out to 1,200 meters. In addition to providing audible/visual signature for day or night firing, the mixed belt for MK19 Grenade Machine Gun will minimize hazards to troops in the training area. This item is Code A, approved for service use.

(E05611) CTG,40mm M918E1 High Velocity Day Night Thermal cartridge is a training cartridge for the MK19 Grenade Machine Gun. This is a fixed round of ammunition consisting of a projectile assembly and cartridge case assembly. The projectile ogive is filled with a signature material that provides a signature upon impact that can be seen, day or night with unaided eye, thermal and night vision weapon sights. The cartridge does not contain any fuzing or explosives, eliminating unexploded ordnance issues on the training ranges due to non-functioning training ammunition. This item is code B, not approved for service use.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E05610) CTG,40mm M781E1 Low Velocity Day Night Thermal cartridge is a training cartridge for the M203, M320 and M79 Grenade Launchers. This is a fixed round of ammunition consisting of a projectile assembly and cartridge case assembly. The projectile ogive is filled with a signature material that provides a signature upon impact that can be seen, day or night with unaided eye, thermal and night vision weapon sights. The cartridge does not contain any fuzing or explosives, eliminating unexploded ordnance issues on the training ranges due to non-functioning training ammunition. This item is code B, not approved for service use.</p> <p>(E71700) CTG,40mm Dummy M922 is an inert round. It physically mimics the M430A1 cartridge. It is used to check weapon function and for crew training. This cartridge is used as a drill round to train users in handling ammunition and loading the MK19 series automatic grenade launcher. This item is Code A, approved for service use.</p>		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition **P-1 Line Item Number / Title:**
ER8001 / CTG, 40MM, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E05610 / CTG, 40MM TP-DAY/NITE/THER,LO VEL M781E1, f/M203GL	P-5a, P-21	B	- / -	- / -	- / -	994,613 / 24.000	- / -	994,613 / 24.000
P-5	E05611 / CTG, 40MM TP-DAY/NITE/THER,HI VEL,M918E1 f/MK19GMG	P-5a, P-21	B	- / -	- / -	- / -	2,796,792 / 94.178	- / -	2,796,792 / 94.178
P-5	E11800 / CTG 40MM HEDP M430A1 series F/MK19 MG [B542]	P-5a, P-21	A	56,410,000 / 715.174	40,602 / 5.913	27,051 / 2.802	- / -	153,202 / 7.423	153,202 / 7.423
P-5	E12502 / CTG 40MM PRACTICE M385A1 [B576]	P-5a, P-21	A	3,228,000 / 50.479	100,931 / 2.000	105,086 / 2.170	- / -	- / -	- / -
P-5	E12601 / CTG 40MM HEDP M433 f/M203 Gren Launcher [B546]	P-5a, P-21	A	156,790K / 527.014	- / -	60,100 / 5.000	- / -	- / -	- / -
P-5	E71700 / CTG 40MM DUMMY M922A1 [B472]		A	91,000 / 1.221	24,485 / 0.493	- / -	- / -	- / -	- / -
P-5	E74200 / CTG 40MM PRACTICE M781 f/M203 Gren Launcher [B519]		A	46,701,000 / 161.331	934,460 / 4.317	- / -	- / -	- / -	- / -
P-5	E74315 / CTG 40MM PRAC, M918/M385A1 [BA30]	P-5a, P-21	A	29,803,676 / 807.725	1,276,886 / 36.361	2,240,840 / 63.000	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 2,262.944	- / 49.084	- / 72.972	- / 118.178	- / 7.423	- / 125.601

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2017 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$118.178 million supports procurement of 3.792 million cartridges and the FY 2017 OCO dollars in the amount of \$7.423 million supports the procurement of .153 million M430A1 cartridges.

(E05610) CTG, 40MM, M781E1 Low Velocity Day Night Thermal - This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$24.000 million supports the procurement of .995 million M781E1 cartridges.

Type Classification Date: Pending

(E05611) CTG, 40MM, M918E1 High Velocity Day Night Thermal - This is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$94.178 million supports the procurement of 2.797 million M918E1 cartridges.

Type Classification Date: Pending

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E11800) CTG 40MM HEDP M430A1 F/MK19 MG - This is a training standard item used in both training and combat. FY 2017 OCO dollars in the amount of \$7.423 million supports the procurement of .153 million M430A1 cartridges. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.</p> <p>TYPE CLASSIFICATION DATE: 1971</p> <p>(E12502) CTG 40MM PRACTICE M385A1 - This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.</p> <p>TYPE CLASSIFICATION DATE: 1987</p> <p>(E12601) CTG 40MM HEDP M433 - This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.</p> <p>TYPE CLASSIFICATION DATE: 1971</p> <p>(E74200) CTG 40MM PRACTICE M781 f/M203 Grenade Launcher - This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.</p> <p>TYPE CLASSIFICATION DATE: 1978</p> <p>(E74315) CTG 40MM PRACTICE, M918/M385A1 - This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.</p> <p>TYPE CLASSIFICATION DATE: 1985</p> <p>(E71700) CTG 40MM DUMMY M922 - This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.</p> <p>TYPE CLASSIFICATION DATE: 1987</p>		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types	Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781E1, f/M203GL

ID Code (A=Service Ready, B=Not Service Ready) : B	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 <i>(Units in Each)</i>	-	-	-	994,613	-	994,613
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	24.000	-	24.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	24.000	-	24.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	24.000	-	24.000

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	24.13	-	24.13

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	23.11	994,613	22.986	-	-	-	23.11	994,613	22.986
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	22.986	-	-	-	-	-	22.986
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	22.986	-	-	-	-	-	22.986
Support Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	1.009	-	-	-	-	-	1.009
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
<i>Subtotal: Support Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.014	-	-	-	-	-	1.014
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	24.13	994,613	24.000	-	-	-	24.13	994,613	24.000

(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types				Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781E1, f/M203GL					
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
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	994,613	23.11	N		

^(†) indicates the presence of a P-21

Remarks:

CTG 40MM LOW VELOCITY DAY NIGHT THERMAL F/M20GL - This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY2017 Base procurement dollars in the amount of \$24.000 million supports the procurement of .995 million M781E1 cartridges.
Type Classification Date: Pending

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army																							Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781E1, f/M203GL																	
Cost Elements <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	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						
COMPLETE ROUND																																					
1	2017	ARMY	994.613	-	994.613							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82.884	82.885	82.885	82.884	82.885	82.884	82.885	414.421

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781E1, f/M203GL									

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 #	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 8	B A L 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

COMPLETE ROUND																																				
1	2017	ARMY	994.613	580.192	414.421	82.885	82.884	82.884	82.884	82.884																										-
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781E1, f/M203GL		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	20,000	320,000	800,000	6	6	12	18	6	6	12	18

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

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

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types	Item Number / Title [DODIC]: E05611 / CTG, 40MM TP-DAY/NITE/ THER,HI VEL,M918E1 f/MK19GMG

ID Code (A=Service Ready, B=Not Service Ready) : B	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 <i>(Units in Each)</i>	-	-	-	2,796,792	-	2,796,792
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	94.178	-	94.178
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	94.178	-	94.178
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	94.178	-	94.178

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	33.67	-	33.67

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	32.54	2,796,792	91.018	-	-	-	32.54	2,796,792	91.018
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	91.008	-	-	-	-	-	91.008
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	91.008	-	-	-	-	-	91.008
Support Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	3.155	-	-	-	-	-	3.155
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
<i>Subtotal: Support Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.160	-	-	-	-	-	3.160
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	33.67	2,796,792	94.178	-	-	-	33.67	2,796,792	94.178

(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types				Item Number / Title [DODIC]: E05611 / CTG, 40MM TP-DAY/NITE/ THER,HI VEL,M918E1 f/MK19GMG					
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
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	2,796,792	32.54	N		

^(†) indicates the presence of a P-21

Remarks:

This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. Type Classification Date: Pending

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E05611 / CTG, 40MM TP-DAY/NITE/ THER,HI VEL,M918E1 f/MK19GMG									

Cost Elements <i>(Units in Millions, * = < 500)</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	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

COMPLETE ROUND																																				
1	2017	ARMY		2.797	-	2.797							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.234	.234	.234	.234	.234	.234	.234	.234	1.162

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
Item Number / Title [DODIC]: E05611 / CTG, 40MM TP-DAY/NITE/ THER,HI VEL,M918E1 f/MK19GMG		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	50,000	320,000	800,000	6	6	12	18	6	6	12	18

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

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

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types	Item Number / Title [DODIC]: E11800 / CTG 40MM HEDP M430A1 series F/MK19 MG [B542]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	56,410,000	40,602	27,051	-	153,202	153,202
Gross/Weapon System Cost (<i>\$ in Millions</i>)	715.174	5.913	2.802	-	7.423	7.423
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	715.174	5.913	2.802	-	7.423	7.423
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	715.174	5.913	2.802	-	7.423	7.423

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	12.68	145.63	103.58	-	48.45	48.45

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	12.61	56,410,000	711.468	46.55	40,602	1.890	47.55	27,051	1.286	-	-	-	48.45	153,202	7.423	48.45	153,202	7.423
<i>Subtotal: Recurring Cost</i>	-	-	711.330	-	-	1.890	-	-	1.286	-	-	-	-	-	7.423	-	-	7.423
<i>Subtotal: Hardware Cost</i>	-	-	711.330	-	-	1.890	-	-	1.286	-	-	-	-	-	7.423	-	-	7.423
Support - Acceptance Testing Cost																		
First Article Test	-	-	1.111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	1.111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	2.342	-	-	0.556	-	-	1.508	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	2.342	-	-	0.556	-	-	1.508	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.028	-	-	0.011	-	-	0.008	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.028	-	-	0.011	-	-	0.008	-	-	-	-	-	-	-	-	-
Support - Study & Analysis Cost																		
Study & Analysis	-	-	0.363	-	-	3.456	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	0.363	-	-	3.456	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types	Item Number / Title [DODIC]: E11800 / CTG 40MM HEDP M430A1 series F/MK19 MG [B542]
ID Code (A=Service Ready, B=Not Service Ready) : A		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	12.68	56,410,000	715.174	145.63	40,602	5.913	103.58	27,051	2.802	-	-	-	48.45	153,202	7.423	48.45	153,202	7.423

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types				Item Number / Title [DODIC]: E11800 / CTG 40MM HEDP M430A1 series F/MK19 MG [B542]				

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
COMPLETE ROUND ^(†)		2015	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2016	Dec 2018	40,602	46.55	Y		
COMPLETE ROUND ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2016	Jun 2019	27,051	47.55	Y		
COMPLETE ROUND ^(†)	✓	2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Jul 2019	153,202	48.45	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E11800 / CTG 40MM HEDP M430A1 series F/MK19 MG [B542]									

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

COMPLETE ROUND																													
Prior Years Deliveries: 56410000																													
	1	2015	ARMY	40.602	-	40.602																							40.602
	1	2016	ARMY	27.051	-	27.051																							27.051
	✓	1	2017	ARMY	153.202	-	153.202																						153.202

							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E11800 / CTG 40MM HEDP M430A1 series F/MK19 MG [B542]									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2018													Fiscal Year 2019													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																																			
Prior Years Deliveries: 56410000																																			
	1	2015	ARMY	40.602	-	40.602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	1	2016	ARMY	27.051	-	27.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.051	-		
✓	1	2017	ARMY	153.202	-	153.202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.776	12.766	12.766	114.894

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
Item Number / Title [DODIC]: E11800 / CTG 40MM HEDP M430A1 series F/MK19 MG [B542]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	20,000	175,000	275,000	6	6	30	36	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-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
		Item Number / Title [DODIC]: E12502 / CTG 40MM PRACTICE M385A1 [B576]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	3,228,000	100,931	105,086	-	-	-
Gross/Weapon System Cost (\$ in Millions)	50.479	2.000	2.170	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	50.479	2.000	2.170	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	50.479	2.000	2.170	-	-	-

(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)	15.64	19.82	20.65	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	14.95	3,228,000	48.259	14.53	100,931	1.467	14.07	105,086	1.479	-	-	-	-	-	-	-	-	-
PROJ BODY 40MM M385A1 ^(†)	4.55	331,445	1.508	4.12	104,403	0.430	4.52	108,701	0.491	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	49.767	-	-	1.897	-	-	1.970	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	49.767	-	-	1.897	-	-	1.970	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.685	-	-	0.102	-	-	0.197	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.685	-	-	0.102	-	-	0.197	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.027	-	-	0.001	-	-	0.003	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.027	-	-	0.001	-	-	0.003	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	15.64	3,228,000	50.479	19.82	100,931	2.000	20.65	105,086	2.170	-	-	-	-	-	-	-	-	-

^(†) indicates the presence of a P-5a

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types	Item Number / Title [DODIC]: E12502 / CTG 40MM PRACTICE M385A1 [B576]
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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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2016	Sep 2018	100,931	14.53	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2016	Mar 2019	105,086	14.07	Y		
PROJ BODY 40MM M385A1		2015	GTI SYSTEMS, INC / AUBURNDALE, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Feb 2018	104,403	4.12	Y		
PROJ BODY 40MM M385A1		2016	GTI SYSTEMS, INC / AUBURNDALE, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Aug 2018	108,701	4.52	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E12502 / CTG 40MM PRACTICE M385A1 [B576]									

Cost Elements <i>(Units in Thousands)</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					
LOAD, ASSEMBLE, PACK (LAP)																																			
Prior Years Deliveries: 3228000																																			
1	2015	ARMY		100.931	-	100.931																							100.931						
1	2015	AF (‡)		96.840	-	96.840																							96.840						
1	2015	NAVSEA (‡)		49.984	-	49.984																							49.984						
1	2015	Total		247.755	-	247.755																							247.755						
1	2016	ARMY		105.086	-	105.086																							105.086						
1	2016	NSOF (‡)		23.222	-	23.222																							23.222						
1	2016	AF (‡)		106.707	-	106.707																							106.707						
1	2016	Total		235.015	-	235.015																							235.015						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E12502 / CTG 40MM PRACTICE M385A1 [B576]									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2018													Fiscal Year 2019												BALANCE																										
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019																																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P																									
LOAD, ASSEMBLE, PACK (LAP)																																																								
Prior Years Deliveries: 3228000																																																								
1	2015	ARMY	100.931	-	100.931	-	-	-	-	-	-	-	-	-	-	-	-	16.821	16.821	16.821	16.821	16.821	16.821	16.826							-																									
1	2015	AF (‡)	96.840	-	96.840	-	-	-	-	-	-	-	-	-	-	-	-	16.140	16.140	16.140	16.140	16.140	16.140	16.140							-																									
1	2015	NAVSEA (‡)	49.984	-	49.984	-	-	-	-	-	-	-	-	-	-	-	-	8.330	8.330	8.330	8.330	8.330	8.330	8.334							-																									
1	2015	Total	247.755	-	247.755	-	-	-	-	-	-	-	-	-	-	-	-	41.291	41.291	41.291	41.291	41.291	41.291	41.300							-																									
1	2016	ARMY	105.086	-	105.086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.514	17.514	17.514	17.514	17.514	17.516	-																									
1	2016	NSOF (‡)	23.222	-	23.222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.870	3.870	3.870	3.870	3.870	3.872	-																									
1	2016	AF (‡)	106.707	-	106.707	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.784	17.784	17.784	17.784	17.784	17.787	-																									
1	2016	Total	235.015	-	235.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.168	39.168	39.168	39.168	39.168	39.175	-																									
<table style="width:100%; border-collapse: collapse;"> <tr> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td colspan="5"></td> </tr> </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 Army				Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types			Item Number / Title [DODIC]: E12502 / CTG 40MM PRACTICE M385A1 [B576]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	50,000	320,000	800,000	6	6	27	33	6	6	25	31

(‡) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
		Item Number / Title [DODIC]: E12601 / CTG 40MM HEDP M433 f/ M203 Gren Launcher [B546]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	156,790K	-	60,100	-	-	-
Gross/Weapon System Cost (\$ in Millions)	527.014	-	5.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	527.014	-	5.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	527.014	-	5.000	-	-	-

(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)	3.36	-	83.19	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	2.86	156,790K	448.419	-	-	-	67.92	60,100	4.082	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	448.419	-	-	-	-	-	4.082	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	448.419	-	-	-	-	-	4.082	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.183	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.183	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	77.383	-	-	-	-	-	0.723	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	77.383	-	-	-	-	-	0.723	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	1.212	-	-	-	-	-	0.012	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	1.212	-	-	-	-	-	0.012	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	3.36	156,790K	527.014	-	-	-	83.19	60,100	5.000	-	-	-	-	-	-	-	-	-

^(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types				Item Number / Title [DODIC]: E12601 / CTG 40MM HEDP M433 f/ M203 Gren Launcher [B546]					
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
COMPLETE ROUND ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2016	Jan 2018	60,100	67.92	Y		

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E12601 / CTG 40MM HEDP M433 f/ M203 Gren Launcher [B546]									

Cost Elements <i>(Units in Thousands)</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
COMPLETE ROUND																															
Prior Years Deliveries: 156790000																															
1	2016	ARMY		60.100	-	60.100																								60.100	
							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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E12601 / CTG 40MM HEDP M433 f/ M203 Gren Launcher [B546]									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2018															Fiscal Year 2019															BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018															Calendar Year 2019															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
COMPLETE ROUND																																					
Prior Years Deliveries: 156790000																																					
1		2016	ARMY	60.100	-	60.100	-	-	-	5.012	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	5.008	-							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
Item Number / Title [DODIC]: E12601 / CTG 40MM HEDP M433 f/ M203 Gren Launcher [B546]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	200,000	274,000	685,000	6	6	19	25	6	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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types	Item Number / Title [DODIC]: E71700 / CTG 40MM DUMMY M922A1 [B472]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	91,000	24,485	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1.221	0.493	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1.221	0.493	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1.221	0.493	-	-	-	-

(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)	13.42	20.13	-	-	-	-

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 Cost																		
Recurring Cost																		
Complete Round	12.05	91,000	1.097	14.74	24,485	0.361	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1.097</i>	-	-	<i>0.361</i>	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	1.097	-	-	0.361	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.024	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	<i>0.024</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.122	-	-	0.104	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<i>0.122</i>	-	-	<i>0.104</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.002	-	-	0.004	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	<i>0.002</i>	-	-	<i>0.004</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	13.42	91,000	1.221	20.13	24,485	0.493	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
		Item Number / Title [DODIC]: E74200 / CTG 40MM PRACTICE M781 f/ M203 Gren Launcher [B519]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	46,701,000	934,460	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	161.331	4.317	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	161.331	4.317	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	161.331	4.317	-	-	-	-

(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)	3.45	4.62	-	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	3.42	46,701,000	159.717	4.16	934,460	3.887	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	159.717	-	-	3.887	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	159.717	-	-	3.887	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.012	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.012	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	1.000	-	-	0.412	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	1.000	-	-	0.412	-	-	-	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.614	-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.614	-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	3.45	46,701,000	161.331	4.62	934,460	4.317	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
		Item Number / Title [DODIC]: E74315 / CTG 40MM PRAC, M918/ M385A1 [BA30]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	29,803,676	1,276,886	2,240,840	-	-	-
Gross/Weapon System Cost (\$ in Millions)	807.725	36.361	63.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	807.725	36.361	63.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	807.725	36.361	63.000	-	-	-

(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)	27.10	28.48	28.11	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	26.91	29,803,676	802.017	8.57	1,276,886	10.943	13.58	2,240,840	30.431	-	-	-	-	-	-	-	-	-
PROJ ASSY 40MM M918 ^(†)	-	-	-	15.80	895,416	14.148	16.86	1,571,389	26.494	-	-	-	-	-	-	-	-	-
PROJ BODY 40MM M385A1 ^(†)	-	-	-	5.02	412,753	2.073	4.52	724,352	3.274	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>802.017</i>	-	-	<i>27.163</i>	-	-	<i>60.198</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	<i>802.017</i>	-	-	<i>27.163</i>	-	-	<i>60.198</i>	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.130	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	<i>0.130</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	5.682	-	-	9.055	-	-	2.797	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<i>5.682</i>	-	-	<i>9.055</i>	-	-	<i>2.797</i>	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.026	-	-	0.013	-	-	0.004	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	<i>0.026</i>	-	-	<i>0.013</i>	-	-	<i>0.004</i>	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types	Item Number / Title [DODIC]: E74315 / CTG 40MM PRAC, M918/ M385A1 [BA30]
ID Code (A=Service Ready, B=Not Service Ready) : A		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	27.10	29,803,676	807.725	28.48	1,276,886	36.361	28.11	2,240,840	63.000	-	-	-	-	-	-	-	-	-

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types				Item Number / Title [DODIC]: E74315 / CTG 40MM PRAC, M918/ M385A1 [BA30]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2016	Feb 2019	1,276,886	8.57	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2016	Aug 2019	2,240,840	13.58	Y		
PROJ ASSY 40MM M918		2015	GTI SYSTEMS, INC / AUBURNDALE, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Jul 2018	895,416	15.80	Y		
PROJ ASSY 40MM M918		2016	GTI SYSTEMS, INC / AUBURNDALE, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Jan 2019	1,571,389	16.86	Y		
PROJ BODY 40MM M385A1		2015	GTI SYSTEMS, INC / AUBURNDALE, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Jul 2018	412,753	5.02	Y		
PROJ BODY 40MM M385A1		2016	GTI SYSTEMS, INC / AUBURNDALE, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Jan 2019	724,352	4.52	Y		

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E74315 / CTG 40MM PRAC, M918/ M385A1 [BA30]				

Cost Elements <i>(Units in Millions, * = < 500)</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

LOAD, ASSEMBLE, PACK (LAP)

Prior Years Deliveries: 29803676

1	2015	ARMY	1.277	-	1.277										A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.277
1	2016	ARMY	2.241	-	2.241										A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.241
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E74315 / CTG 40MM PRAC, M918/ M385A1 [BA30]				

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
LOAD, ASSEMBLE, PACK (LAP)																															
Prior Years Deliveries: 29803676																															
	1	2015	ARMY	1.277	-	1.277	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.213	.213	.213	.213	.213	.213		-		
	1	2016	ARMY	2.241	-	2.241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.373	.373	1.494		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types										Item Number / Title [DODIC]: E74315 / CTG 40MM PRAC, M918/ M385A1 [BA30]									

Cost Elements <i>(Units in Millions, * = < 500)</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					

LOAD, ASSEMBLE, PACK (LAP)

Prior Years Deliveries: 29803676																																
1	2015	ARMY	1.277	1.277	-																											-
1	2016	ARMY	2.241	.747	1.494	.373	.373	.373	.373																							-
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30		P-1 Line Item Number / Title: ER8001 / CTG, 40MM, All Types
Item Number / Title [DODIC]: E74315 / CTG 40MM PRAC, M918/ M385A1 [BA30]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	20,000	320,000	800,000	6	6	32	38	6	6	30	36

"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 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	365.925	51.649	54.598	69.784	10.000	79.784	73.017	59.770	69.789	60.437	-	814.969
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	365.925	51.649	54.598	69.784	10.000	79.784	73.017	59.770	69.789	60.437	-	814.969
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	365.925	51.649	54.598	69.784	10.000	79.784	73.017	59.770	69.789	60.437	-	814.969

(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:

(E89600)60MM Mortar, All Types

This line includes 60mm Mortar Ammunition, All Types.

The 60mm Mortar cartridges are designed for use with the M224A1 Lightweight Company Mortar System (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The short minimum range of the M224 makes the 60mm mortar ammunition well suited for close protective fires against an assaulting enemy, for block-to-block fighting in cities, and combat over close terrain with restricted visibility.

(E72199)CTG,60MM MORTAR HE EnFrag M1061 (IM) W/M734A1 MOF

The M1061, 60mm High Explosive Enhanced Fragmentation (EF) cartridge with multi-option fuze (Range 70 meter minimum to 3,400 meter maximum) is used against personnel and a higher category of materiel target sets providing both fragmentation and blast effect. This round uses the insensitive main charge explosive PBNX-110. Lethality is maintained by an enhanced fragmentation warhead. The M1061 EF uses the highly reliable and countermeasure resistant M734A1 multi-option fuze. When the fuze is set in the proximity mode, it functions at a height over the target that is optimized for lethality.

The M1061 is Code A, approved for service use.

(E92900)CTG, 60MM MORTAR HE M768 W/PD FUZE

The 60mm High Explosive Cartridges are Insensitive Munitions (IM) enhanced, HE rounds. The M786 High Explosive cartridge (Range 70 meter minimum to 3,400 meter maximum) is used with the new M783 dual safety, point detonating/delay fuze, tail fin assembly, and high fragmentation steel (HF-1) shell body loaded with approximately 2lbs. of an IM explosive. This round is used primarily in training because it is significantly less expensive than the M720A1, the preferred war fighting round. However, the M768 is lethal and can be used in combat.

This item is Code A, approved for service use.

(E92200)CTG,60MM Mortar FRPC M769 SERIES W/PRACTICE FUZE

The M769 is a low-cost, full range, practice round that will replace a percentage of the standard HE rounds used in 60mm mortar training. The M769 FRPC (Range 70 meter minimum to 3,500 meter maximum) has been designed to provide the user with realistic training at a fraction of the cost. It is identical in shape, size and weight to the M720/M720A1 HE cartridges. The flash, bang and smoke signature provided by the M775 fuze is channeled to exhaust holes in the rear of the cartridge through the use of a center vent tube.

This item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E98600)CTG,60MM Mortar, WP SMOKE M722 SERIES W/PD FUZE The M722A1 60mm Smoke cartridge is designed as a spotting/marketing round. The steel projectile is bulk loaded with white phosphorous. When the fuze functions, it detonates the M85 burster, which ruptures the projectile and disperses the white phosphorus. The M722A1 WP Smoke ((Range 200 meter minimum to 3,200 meter maximum) replaced the M745 mechanical point-detonating fuze with the reliable, safe, and cost effective electronic M783 Point Detonating (PD) and Delay (DLY) fuze. This item is Code A, approved for service use.</p> <p>(E85700)CTG,60MM MORTAR,ILLUM IR M767 SERIES W/MTSQ FUZE The M767 cartridge is a fin stabilized, mortar cartridge that consists of a M776 Mechanical Time Superquick (MTSQ) fuze, a thin wall steel body tube and aluminum tail cone that contains the payload (parachute and canister), and a fin assembly that contains the ignition cartridge and propelling charges. The payload is base ejected and upon ignition produces infrared (IR) illumination. The advantage of the infrared over conventional illumination is that there is minimal visible light. This reduces the possibility of exposing forward friendly troop positions while also allowing covert adjustment of fire at greater observation distances through use of passive Night Vision Devices (NVD). The M721/M767 Illumination Cartridges (Range 300 meter minimum to 3,175 meter maximum) are ballistically similar to the M720A1 HE Cartridge, allowing a gun to illuminate and fire on the same target without adjustments. This item is Code A, approved for service use.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Number / Title:
E89600 / 60MM Mortar, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E72199 / CTG, MORTAR, 60MM HE ENFRAG M1061 SERIES W/MOFM [BA42]	P-5a, P-21	A	- / 19.523	- / -	2,605 / 3.700	9,696 / 15.156	3,597 / 5.000	13,293 / 20.156
P-5	E85700 / CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE [BA04]	P-5a, P-21	A	82,124 / 44.634	- / -	- / -	12,527 / 8.208	- / -	12,527 / 8.208
P-5	E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]	P-5a, P-21	A	- / 120.902	67,920 / 10.882	120,569 / 21.000	130,435 / 23.420	- / -	130,435 / 23.420
P-5	E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]	P-5a, P-21	A	- / 161.911	73,778 / 30.041	54,746 / 29.898	40,859 / 23.000	9,869 / 5.000	50,728 / 28.000
P-5	E98600 / Ctg, Mortar,60MM WP SMOKE M722 SERIES W/PD FUZE [BA14]	P-5a, P-21	A	- / 18.955	22,499 / 10.726	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 365.925	- / 51.649	- / 54.598	- / 69.784	- / 10.000	- / 79.784

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2017 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$69.784 million supports production of 193,517 cartridges.
 FY 2017 OCO procurement dollars in the amount of \$10.000 million supports production of 13,466 cartridges. Funds are required to replenish munitions expended in combat operations in Operation Freedom's Sentinel (OFS) Afghanistan.

E72199 - CTG,60MM MORTAR,HE ENFRAG XM1061(IM)W/M734A1 MOF
 This is a war reserve item used in combat. FY 2017 Request builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$15.156 million supports production of 9,696 cartridges. FY 2017 OCO procurement dollars in the amount of \$5.000 million supports production of 3,597 cartridges.
 TYPE CLASSIFICATION DATE: 2013

E92200 - CTG,60MM Mortar, FRPC M769 SERIES W/PRACTICE FUZE
 This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$23.420 million supports production of 130,435 cartridges.
 TYPE CLASSIFICATION used in combat. DATE: 2001

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>E92900 - CTG,60MM MORTAR,HE M768 SERIES W/PD FUZE This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$23.000 million supports production of 40,859 cartridges. FY 2017 OCO procurement dollars in the amount of \$5.000 million supports production of 9,869 cartridges. Funds are required to replenish munitions expended in combat operations in Operation Freedom's Sentinel (OFS) Afghanistan. TYPE CLASSIFICATION DATE: 2001</p> <p>E98600 - CTG,60MM Mortar, WP SMOKE M722 SERIES W/PD FUZE This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. TYPE CLASSIFICATION DATE: MARCH 2004</p> <p>E85700 - CTG,60MM MORTAR,ILLUM IR M767 SERIES W/MTSQ FUZE This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army procurement goals. FY 2017 Base procurement dollars in the amount of \$8.208 million supports production of 12,527 cartridges. TYPE CLASSIFICATION DATE: DECEMBER 1999</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E72199 / CTG, MORTAR, 60MM HE ENFRAG M1061 SERIES W/MOFM [BA42]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	2,605	9,696	3,597	13,293
Gross/Weapon System Cost (\$ in Millions)	19.523	-	3.700	15.156	5.000	20.156
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	19.523	-	3.700	15.156	5.000	20.156
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	19.523	-	3.700	15.156	5.000	20.156

(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)	-	-	1,420.35	1,563.12	1,390.05	1,516.29

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	19.523	-	-	-	900.13	2,605	2.345	917.70	9,696	8.898	917.70	3,597	3.301	917.70	13,293	12.199
FUZE MOFM, M734A1 ^(†)	-	-	-	-	-	-	334.33	2,683	0.897	340.86	9,986	3.404	340.86	3,705	1.263	340.86	13,691	4.667
M702 IGNITION CARTRIDGE ^(†)	-	-	-	-	-	-	16.74	2,683	0.045	17.06	10,180	0.174	17.06	3,777	0.064	17.06	13,957	0.238
PROPELLANT CHARGE, M236 ^(†)	-	-	-	-	-	-	10.78	10,733	0.116	14.80	40,723	0.603	14.80	15,107	0.224	14.80	55,830	0.826
FIN ASSEMBLY M27 ^(†)	-	-	-	-	-	-	10.00	2,683	0.027	7.39	9,986	0.074	7.39	3,705	0.027	7.39	13,691	0.101
<i>Subtotal: Recurring Cost</i>	-	-	19.523	-	-	-	-	-	3.429	-	-	13.152	-	-	4.879	-	-	18.031
Subtotal: Hardware Cost	-	-	19.523	-	-	-	-	-	3.429	-	-	13.152	-	-	4.879	-	-	18.031
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.120	-	-	0.088	-	-	0.120	-	-	0.208
First Article Test	-	-	-	-	-	-	-	-	-	-	-	0.400	-	-	-	-	-	0.400
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.120	-	-	0.488	-	-	0.120	-	-	0.608
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.150	-	-	1.515	-	-	0.001	-	-	1.516

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E72199 / CTG, MORTAR, 60MM HE ENFRAG M1061 SERIES W/MOFM [BA42]

ID Code (A=Service Ready, B=Not Service Ready) : A	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: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.150	-	-	1.515	-	-	0.001	-	-	1.516
Gross/Weapon System Cost	-	-	19.523	-	-	-	1,420.35	2,605	3.700	1,563.12	9,696	15.156	1,390.05	3,597	5.000	1,516.29	13,293	20.156

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types				Item Number / Title [DODIC]: E72199 / CTG, MORTAR, 60MM HE ENFRAG M1061 SERIES W/MOFM [BA42]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jun 2017	Jun 2019	2,605	900.13	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jun 2017	Jun 2019	13,293	917.70	Y		
FUZE MOFM, M734A1		2016	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Jun 2016	Feb 2018	2,683	334.33	Y		
FUZE MOFM, M734A1		2017	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Oct 2018	13,691	340.86	Y		
M702 IGNITION CARTRIDGE		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	2,683	16.74	Y		
M702 IGNITION CARTRIDGE		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	13,957	17.06	Y		
PROPELLANT CHARGE, M236		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	10,733	10.78	Y		
PROPELLANT CHARGE, M236		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	55,830	14.80	Y		
FIN ASSEMBLY M27		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	2,683	10.00	Y		
FIN ASSEMBLY M27		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	13,691	7.39	Y		

^(†) indicates the presence of a P-21

Remarks:

Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: NAMMO POCAL INC., Scranton, PA; Day and Zimmerman, Camden AR and American Ordnance, Middletown, IA. M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. M236 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA; and General Dynamics, Marion, IL.

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Exhibit P-21, Production Schedule: PB 2017 Army			Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	
Item Number / Title [DODIC]: E72199 / CTG, MORTAR, 60MM HE ENFRAG M1061 SERIES W/MOFM [BA42]			

Cost Elements <i>(Units in Thousands)</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			
LOAD, ASSEMBLE, PACK (LAP)																																	
	1	2016	ARMY	2.605	-	2.605														A - - - -													2.605
	1	2017	ARMY	13.293	-	13.293														A - - - -													13.293
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types										Item Number / Title [DODIC]: E72199 / CTG, MORTAR, 60MM HE ENFRAG M1061 SERIES W/MOFM [BA42]									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2018													Fiscal Year 2019													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
	1	2016	ARMY	2.605	-	2.605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.605			-	
	1	2017	ARMY	13.293	-	13.293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.204	6.089		-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
		Item Number / Title [DODIC]: E72199 / CTG, MORTAR, 60MM HE ENFRAG M1061 SERIES W/MOFM [BA42]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	10,000	10,000	30,000	6	6	24	30	6	6	24	30

"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
		Item Number / Title [DODIC]: E85700 / CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE [BA04]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	82,124	-	-	12,527	-	12,527
Gross/Weapon System Cost (\$ in Millions)	44.634	-	-	8.208	-	8.208
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	44.634	-	-	8.208	-	8.208
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	44.634	-	-	8.208	-	8.208

(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)	543.50	-	-	655.22	-	655.22

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	44.634	-	-	-	-	-	-	101.77	12,527	1.275	-	-	-	101.77	12,527	1.275
FUZE MTSQ, M776 ^(†)	-	-	-	-	-	-	-	-	-	204.20	12,902	2.635	-	-	-	204.20	12,902	2.635
BODY TUBE, 60MM ILLUM ^(†)	-	-	-	-	-	-	-	-	-	26.84	12,902	0.346	-	-	-	26.84	12,902	0.346
TAIL CONE, 60MM ILLUM ^(†)	-	-	-	-	-	-	-	-	-	20.15	12,902	0.260	-	-	-	20.15	12,902	0.260
M702 IGNITION CARTRIDGE ^(†)	-	-	-	-	-	-	-	-	-	17.06	12,902	0.220	-	-	-	17.06	12,902	0.220
PROPELLANT CHARGE, M235 ^(†)	-	-	-	-	-	-	-	-	-	12.67	51,611	0.654	-	-	-	12.67	51,611	0.654
FIN ASSEMBLY M27 ^(†)	-	-	-	-	-	-	-	-	-	7.39	12,902	0.095	-	-	-	7.39	12,902	0.095
IR ILLUM CANNISTER, 60MM ^(†)	-	-	-	-	-	-	-	-	-	111.42	12,902	1.438	-	-	-	111.42	12,902	1.438
PARACHUTE, 60MM ^(†)	-	-	-	-	-	-	-	-	-	19.19	12,902	0.248	-	-	-	19.19	12,902	0.248
FIBER CONTAINER PA 175, 60MM ^(†)	-	-	-	-	-	-	-	-	-	4.49	12,902	0.058	-	-	-	4.49	12,902	0.058

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E85700 / CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE [BA04]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)
METAL CONTAINER PA191, 60MM ^(t)	-	-	-	-	-	-	-	-	-	45.28	1,503	0.068	-	-	-	45.28	1,503	0.068
<i>Subtotal: Recurring Cost</i>	-	-	44.634	-	-	-	-	-	-	-	-	7.296	-	-	-	-	-	7.296
<i>Subtotal: Hardware Cost</i>	-	-	44.634	-	-	-	-	-	-	-	-	7.296	-	-	-	-	-	7.296
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.090	-	-	-	-	-	0.090
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.090	-	-	-	-	-	0.090
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.821	-	-	-	-	-	0.821
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.821	-	-	-	-	-	0.821
Gross/Weapon System Cost	543.50	82,124	44.634	-	-	-	-	-	-	655.22	12,527	8.208	-	-	-	655.22	12,527	8.208

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types				Item Number / Title [DODIC]: E85700 / CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE [BA04]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2019	12,527	101.77	Y		
FUZE MTSQ, M776		2017	JUNGHANS MICROTEC GMBH / DUNNINGEN, GERMANY	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Nov 2018	12,902	204.20	Y		
BODY TUBE, 60MM ILLUM		2017	TO BE SELECTED / TBS01	C / IDDQ	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	12,902	26.84	Y		
TAIL CONE, 60MM ILLUM		2017	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	12,902	20.15	Y		
M702 IGNITION CARTRIDGE		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	12,902	17.06	Y		
PROPELLANT CHARGE, M235		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	51,611	12.67	Y		
FIN ASSEMBLY M27		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	12,902	7.39	Y		
IR ILLUM CANNISTER, 60MM		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	12,902	111.42	Y		
PARACHUTE, 60MM		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	12,902	19.19	Y		
FIBER CONTAINER PA 175, 60MM		2017	TO BE SELECTED / TBS01	C / IDDQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	12,902	4.49	Y		
METAL CONTAINER PA191, 60MM		2017	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	1,503	45.28	Y		

(†) indicates the presence of a P-21

Remarks:

M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. 60MM Parachutes: IDIQ awarded (Aug 10) to multiple contractors. Requirements will be competed among the following contractors: Yoland, Jamaica, NY; NAA, Roxboro, NC. 60MM Illum Body Tubes and Tail Cones: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico, Wilkes Barre, PA and Lewis Engineering, Marshall, TX. Ignition Cartridges: IDIQ awarded (June 12) to multiple contractors. Requirements will be competed among the following contractors: NAMMO POCAL INC., Scranton, PA; Day and Zimmerman, Camden, AR and American Ordnance, Middleton, IA. M235 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA and General Dynamics, Marion, IL.

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Exhibit P-21, Production Schedule: PB 2017 Army												Date: February 2016											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E85700 / CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE [BA04]											

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

LOAD, ASSEMBLE, PACK (LAP)																													
1	2017	ARMY	12.527	-	12.527																								12.527

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
		Item Number / Title [DODIC]: E85700 / CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE [BA04]

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			

LOAD, ASSEMBLE, PACK (LAP)																													
1	2017	ARMY		12.527	-	12.527	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
		Item Number / Title [DODIC]: E85700 / CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE [BA04]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	20,000	20,000	32,000	6	6	24	30	6	3	24	27

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	67,920	120,569	130,435	-	130,435
Gross/Weapon System Cost (\$ in Millions)	120.902	10.882	21.000	23.420	-	23.420
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	120.902	10.882	21.000	23.420	-	23.420
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	120.902	10.882	21.000	23.420	-	23.420

(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)	-	160.22	174.17	179.55	-	179.55

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (LAP) ^(†)	-	-	120.902	16.35	67,920	1.110	18.96	120,569	2.286	17.60	130,435	2.296	-	-	-	17.60	130,435	2.296
Fuze Practice, M775 ^(†)	-	-	-	18.45	69,958	1.291	19.37	124,186	2.405	19.74	134,348	2.652	-	-	-	19.74	134,348	2.652
Shell Body, 60MM FRPC ^(†)	-	-	-	35.19	69,958	2.462	38.93	124,186	4.835	39.68	134,348	5.331	-	-	-	39.68	134,348	5.331
M702 Ignition Cartridge ^(†)	-	-	-	13.80	69,958	0.965	16.74	124,186	2.079	17.06	134,348	2.292	-	-	-	17.06	134,348	2.292
Propellant Charge, M235 ^(†)	-	-	-	9.05	279,830	2.532	10.55	496,744	5.241	12.67	537,392	6.809	-	-	-	12.67	537,392	6.809
Fin Assembly M27 ^(†)	-	-	-	6.79	69,958	0.475	10.00	124,186	1.242	7.39	134,348	0.993	-	-	-	7.39	134,348	0.993
Subtotal: Recurring Cost	-	-	120.902	-	-	8.836	-	-	18.087	-	-	20.372	-	-	-	-	-	20.372
Subtotal: Hardware Cost	-	-	120.902	-	-	8.836	-	-	18.087	-	-	20.372	-	-	-	-	-	20.372
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.500	-	-	0.812	-	-	0.905	-	-	-	-	-	0.905
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.500	-	-	0.812	-	-	0.905	-	-	-	-	-	0.905
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.547	-	-	2.100	-	-	2.142	-	-	-	-	-	2.142

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]

ID Code (A=Service Ready, B=Not Service Ready) : A	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: Support - Production Engineering Cost</i>	-	-	-	-	-	1.547	-	-	2.100	-	-	2.142	-	-	-	-	-	2.142
Gross/Weapon System Cost	-	-	120.902	160.22	67,920	10.882	174.17	120,569	21.000	179.55	130,435	23.420	-	-	-	179.55	130,435	23.420

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types				Item Number / Title [DODIC]: E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]					

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
Load, Assemble, Pack (LAP) ^(†)		2015	DAY & ZIMMERMANN LONE STAR / CAMDEN, AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Feb 2017	67,920	16.35	Y		
Load, Assemble, Pack (LAP) ^(†)		2016	DAY & ZIMMERMANN LONE STAR / CAMDEN, AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Dec 2015	Dec 2017	120,569	18.96	Y		
Load, Assemble, Pack (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	130,435	17.60	Y		
Fuze Practice, M775		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	69,958	18.45	Y		
Fuze Practice, M775		2016	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	124,186	19.37	Y		
Fuze Practice, M775		2017	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	134,348	19.74	Y		
Shell Body, 60MM FRPC		2015	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	69,958	35.19	Y		
Shell Body, 60MM FRPC		2016	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	124,186	38.93	Y		
Shell Body, 60MM FRPC		2017	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	134,348	39.68	Y		
M702 Ignition Cartridge		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	69,958	13.80	Y		
M702 Ignition Cartridge		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	124,186	16.74	Y		
M702 Ignition Cartridge		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	134,348	17.06	Y		
Propellant Charge, M235		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	279,830	9.05	Y		
Propellant Charge, M235		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	496,744	10.55	Y		
Propellant Charge, M235		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	537,392	12.67	Y		
Fin Assembly M27		2015	GAYSTON CORPORATION / MIAMISBURG, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	69,958	6.79	Y		
Fin Assembly M27		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	124,186	10.00	Y		
Fin Assembly M27		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	134,348	7.39	Y		

^(†) indicates the presence of a P-21

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]

Remarks:
FRPC LAP: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Parsons, KS; Chemring Ordnance, Perry FL. M27 FINS: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: NAMMO POCAL INC., Scranton, PA and American Ordnance, Middletown, IA.

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
		Item Number / Title [DODIC]: E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]

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	S E P			
Load, Assemble, Pack (LAP)																																	
1	2015	ARMY	67.920	-	67.920																								67.920				
1	2015	MC (†)	54.093	-	54.093																								54.093				
1	2015	Total	122.013	-	122.013																								122.013				
1	2016	ARMY	120.569	-	120.569																								120.569				
1	2016	MC (†)	11.005	-	11.005																								11.005				
1	2016	Total	131.574	-	131.574																								131.574				
2	2017	ARMY	130.435	-	130.435																								130.435				
2	2017	MC (†)	11.369	-	11.369																								11.369				
2	2017	Total	141.804	-	141.804																								141.804				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army														Date: February 2016										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types								Item Number / Title [DODIC]: E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]										

Cost Elements <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	
Load, Assemble, Pack (LAP)																																
1	2015	ARMY	67.920	-	67.920	-	-	-	-	4.000	4.000	4.000	6.000	6.000	6.000	6.000	5.907	12.000	12.000	2.013												-
1	2015	MC (†)	54.093	-	54.093	-	-	-	-	8.000	8.000	8.000	6.000	6.000	6.000	6.000	6.093	-	-	-											-	
1	2015	Total	122.013	-	122.013	-	-	-	-	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	2.013											-	
1	2016	ARMY	120.569	-	120.569	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.987	6.995	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	13.587	
1	2016	MC (†)	11.005	-	11.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.000	5.005	-	-	-	-	-	-	-	-	-		
1	2016	Total	131.574	-	131.574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.987	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	13.587	
2	2017	ARMY	130.435	-	130.435																										130.435	
2	2017	MC (†)	11.369	-	11.369																										11.369	
2	2017	Total	141.804	-	141.804																										141.804	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
Item Number / Title [DODIC]: E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]		

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			
Load, Assemble, Pack (LAP)																																	
1	2015	ARMY	67.920	67.920	-																								-				
1	2015	MC (†)	54.093	54.093	-																								-				
1	2015	Total	122.013	122.013	-																								-				
1	2016	ARMY	120.569	106.982	13.587	13.587																							-				
1	2016	MC (†)	11.005	11.005	-	-																							-				
1	2016	Total	131.574	117.987	13.587	13.587																							-				
2	2017	ARMY	130.435	-	130.435	-	-	-	-	-	-	.631	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	9.804	-					
2	2017	MC (†)	11.369	-	11.369	-	-	-	-	-	-	11.369	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2	2017	Total	141.804	-	141.804	-	-	-	-	-	-	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	9.804	-						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
Item Number / Title [DODIC]: E92200 / CTG, Mortar, 60MM FRTR M769 SERIES W/PRACTICE FUZE [BA15]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	DAY & ZIMMERMANN LONE STAR - CAMDEN, AR	10,000	12,000	24,000	6	6	24	30	6	6	24	30
2	TO BE SELECTED - TBS01	10,000	12,000	24,000	6	6	24	30	6	6	24	30

(‡) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
		Item Number / Title [DODIC]: E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	73,778	54,746	40,859	9,869	50,728
Gross/Weapon System Cost (\$ in Millions)	161.911	30.041	29.898	23.000	5.000	28.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	161.911	30.041	29.898	23.000	5.000	28.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	161.911	30.041	29.898	23.000	5.000	28.000

(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)	-	407.18	546.12	562.91	506.64	551.96

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	161.911	48.04	73,778	3.544	56.10	54,746	3.071	57.19	40,859	2.337	57.19	9,869	0.564	57.19	50,728	2.901
SHELL BODY (HF1), 60MM HE ^(†)	-	-	-	38.99	75,991	2.963	40.33	56,388	2.274	41.11	42,084	1.730	41.11	10,165	0.418	41.11	52,249	2.148
FIN ASSEMBLY M27 ^(†)	-	-	-	6.97	75,991	0.530	10.00	56,388	0.564	7.39	42,084	0.311	7.39	10,165	0.075	7.39	52,249	0.386
M702 IGNITION CARTRIDGE ^(†)	-	-	-	13.80	75,991	1.049	16.74	56,388	0.944	17.06	42,084	0.718	17.06	10,165	0.173	17.06	52,249	0.891
PROPELLANT CHARGE, M235 ^(†)	-	-	-	9.05	303,966	2.751	10.55	225,554	2.380	12.67	168,339	2.133	12.67	40,660	0.515	12.67	208,999	2.648
FUZE POINT DETONATOR M783 ^(†)	-	-	-	148.09	75,991	11.254	250.00	56,388	14.097	229.39	42,084	9.654	229.39	10,165	2.332	229.39	52,249	11.985
*PBXW-14 BULK EXPLOSIVE ^(†)	-	-	-	81.78	4,279	0.350	-	-	-	-	-	-	-	-	-	-	-	-
PBXW-14 BULK EXPLOSIVE ^(†)	-	-	-	-	-	-	83.42	3,284	0.274	85.04	2,451	0.208	85.04	592	0.050	85.04	3,043	0.259
*EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	23.33	125,423	2.926	-	-	-	-	-	-	-	-	-	-	-	-
EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	-	-	-	22.74	164,238	3.735	27.00	122,577	3.310	27.00	29,607	0.799	27.00	152,184	4.109

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]
ID Code (A=Service Ready, B=Not Service Ready) : A		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>	-	-	161.911	-	-	25.366	-	-	27.339	-	-	20.400	-	-	4.927	-	-	25.328
<i>Subtotal: Hardware Cost</i>	-	-	161.911	-	-	25.366	-	-	27.339	-	-	20.400	-	-	4.927	-	-	25.328
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.463	-	-	0.370	-	-	0.298	-	-	0.074	-	-	0.372
First Article Test	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.663	-	-	0.370	-	-	0.298	-	-	0.074	-	-	0.372
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-3.276	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	-3.276	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	2.127	-	-	2.189	-	-	2.301	-	-	-	-	-	2.301
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	2.127	-	-	2.189	-	-	2.301	-	-	-	-	-	2.301
Support - Recapitalization Cost																		
Recapitalization	-	-	-	-	-	5.160	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Recapitalization Cost</i>	-	-	-	-	-	5.160	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	161.911	407.18	73,778	30.041	546.12	54,746	29.898	562.91	40,859	23.000	506.64	9,869	5.000	551.96	50,728	28.000

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types					Item Number / Title [DODIC]: E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	GEN DYNAMICS ORD & TAC SYS - / LE GARDEUR, CANADA	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2015	May 2017	73,778	48.04	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	May 2018	54,746	56.10	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	50,728	57.19	Y		
SHELL BODY (HF1), 60MM HE		2015	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	May 2015	Nov 2016	75,991	38.99	Y		
SHELL BODY (HF1), 60MM HE		2016	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	56,388	40.33	Y		
SHELL BODY (HF1), 60MM HE		2017	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	52,249	41.11	Y		
FIN ASSEMBLY M27		2015	FLEXIBLE CONCEPTS, INC. / ELKHART, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	75,991	6.97	Y		
FIN ASSEMBLY M27		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	56,388	10.00	Y		
FIN ASSEMBLY M27		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	52,249	7.39	Y		
M702 IGNITION CARTRIDGE		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2015	Nov 2016	75,991	13.80	Y		
M702 IGNITION CARTRIDGE		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	56,388	16.74	Y		
M702 IGNITION CARTRIDGE		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	52,249	17.06	Y		
PROPELLANT CHARGE, M235		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	303,966	9.05	Y		
PROPELLANT CHARGE, M235		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	225,554	10.55	Y		
PROPELLANT CHARGE, M235		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	208,999	12.67	Y		
FUZE POINT DETONATOR M783		2015	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	75,991	148.09	Y		
FUZE POINT DETONATOR M783		2016	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Jun 2016	Dec 2017	56,388	250.00	Y		
FUZE POINT DETONATOR M783		2017	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	52,249	229.39	Y		
*PBXW-14 BULK EXPLOSIVE		2015	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	PICATINNY ARSENAL, NJ	Sep 2015	Sep 2015	4,279	81.78			

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types				Item Number / Title [DODIC]: E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]				

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
PBXW-14 BULK EXPLOSIVE		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	3,284	83.42	Y		
PBXW-14 BULK EXPLOSIVE		2017	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	3,043	85.04	Y		
*EXPLOSIVE FILL IMX-104		2015	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	125,423	23.33			
EXPLOSIVE FILL IMX-104		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	164,238	22.74	Y		
EXPLOSIVE FILL IMX-104		2017	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	152,184	27.00	Y		

(†) indicates the presence of a P-21

Remarks:

HE LAP: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; Day and Zimmerman, Parsons, KS; General Dynamics, LeGardeur, Canada; American Ordnance, Middletown, IA. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: NAMMO POCAL INC., Scranton, PA; American Ordnance, Middletown, IA; and DZI Lonestar LLC., Texarkana, TX. HE Shell Bodes: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico Industries, Wilkes Barre, PA; Modern Industries, Erie, PA; T&A Screw Products, Terryville, CT. Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA; and General Dynamics, Marion IL. Fins: IDIQ awarded (Jul 12) to multiple contractors. Requirements will be competed among the following contractors: Gayston Corp., Springboro, OH and T&A Screw Products, Terryville, CT.

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]
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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																					
LOAD, ASSEMBLE, PACK (LAP)																																																			
1		2015	ARMY	73.778	-	73.778																								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73.778
2		2016	ARMY	54.746	-	54.746																																													54.746
2		2017	ARMY	50.728	-	50.728																																													50.728
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army													Date: February 2016												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]													

Cost Elements <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 #	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 6	B A L 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								
LOAD, ASSEMBLE, PACK (LAP)																																						
	1	2015	ARMY	73.778	-	73.778	-	-	-	-	-	-	-	-	-	12.000	12.000	9.760	10.000	10.000	10.000	10.018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	2016	ARMY	54.746	-	54.746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.000	12.000	12.000	12.000	6.746	-
	2	2017	ARMY	50.728	-	50.728	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.728
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army																	Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types										Item Number / Title [DODIC]: E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]										

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					
LOAD, ASSEMBLE, PACK (LAP)																																			
	1	2015	ARMY	73.778	73.778	-																								-					
	2	2016	ARMY	54.746	54.746	-																								-					
	2	2017	ARMY	50.728	-	50.728	-	-	-	-	-	12.051	12.000	12.000	12.000	2.677															-				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
Item Number / Title [DODIC]: E92900 / CTG MORTAR 60MM HE M768 SERIES W/PD FUZE [BA45]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	GEN DYNAMICS ORD & TAC SYS - - LE GARDEUR, CANADA	6,000	12,000	30,000	6	6	24	30	6	6	24	30
2	TO BE SELECTED - TBS01	6,000	12,000	30,000	6	6	24	30	6	6	24	30

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E98600 / Ctg, Mortar,60MM WP SMOKE M722 SERIES W/PD FUZE [BA14]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	22,499	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	18.955	10.726	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	18.955	10.726	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	18.955	10.726	-	-	-	-

(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)	-	476.73	-	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	18.955	88.30	22,499	1.987	-	-	-	-	-	-	-	-	-	-	-	-
FUZE POINT DETONATOR M783 ^(†)	-	-	-	148.09	23,174	3.432	-	-	-	-	-	-	-	-	-	-	-	-
SHELL BODY, 60MM SMOKE ^(†)	-	-	-	38.79	23,174	0.899	-	-	-	-	-	-	-	-	-	-	-	-
M702 IGNITION CARTRIDGE ^(†)	-	-	-	13.80	23,174	0.320	-	-	-	-	-	-	-	-	-	-	-	-
CHG PROP 60MM M204 ^(†)	-	-	-	9.82	92,696	0.910	-	-	-	-	-	-	-	-	-	-	-	-
FIN ASSEMBLY M27 ^(†)	-	-	-	6.97	23,174	0.162	-	-	-	-	-	-	-	-	-	-	-	-
FIBER CONTAINER PA 189, 60MM SMK ^(†)	-	-	-	4.20	23,174	0.097	-	-	-	-	-	-	-	-	-	-	-	-
METAL CONTAINER PA191, 60MM ^(†)	-	-	-	43.54	2,812	0.122	-	-	-	-	-	-	-	-	-	-	-	-
BURSTER HOUSING M216, 60MM SMK ^(†)	-	-	-	15.55	23,174	0.360	-	-	-	-	-	-	-	-	-	-	-	-
BURSTER ASSEMBLY, M85 ^(†)	-	-	-	17.57	23,174	0.407	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E98600 / Ctg, Mortar,60MM WP SMOKE M722 SERIES W/PD FUZE [BA14]
ID Code (A=Service Ready, B=Not Service Ready) : A		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>	-	-	18.955	-	-	8.696	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	18.955	-	-	8.696	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.350	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	0.180	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.530	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	18.955	476.73	22,499	10.726	-	-	-	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types				Item Number / Title [DODIC]: E98600 / Ctg, Mortar, 60MM WP SMOKE M722 SERIES W/PD FUZE [BA14]					

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	22,499	88.30	Y		
FUZE POINT DETONATOR M783		2015	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	23,174	148.09	Y		
SHELL BODY, 60MM SMOKE		2015	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	23,174	38.79	Y		
M702 IGNITION CARTRIDGE		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2015	Nov 2016	23,174	13.80	Y		
CHG PROP 60MM M204		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2015	Jan 2017	92,696	9.82	Y		
FIN ASSEMBLY M27		2015	FLEXIBLE CONCEPTS, INC. / ELKHART, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	23,174	6.97	Y		
FIBER CONTAINER PA 189, 60MM SMK		2015	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	23,174	4.20	Y		
METAL CONTAINER PA191, 60MM		2015	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL, NJ	Aug 2015	Mar 2017	2,812	43.54	Y		
BURSTER HOUSING M216, 60MM SMK		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	23,174	15.55	Y		
BURSTER ASSEMBLY, M85		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	23,174	17.57	Y		

(†) indicates the presence of a P-21

Remarks:
M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. Ignition Cartridges: IDIQ awarded (June 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA; Day and Zimmerman, Camden, AR and American Ordnance, Middleton, IA. M204 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA and General Dynamics, Marion, IL.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types										Item Number / Title [DODIC]: E98600 / Ctg, Mortar,60MM WP SMOKE M722 SERIES W/PD FUZE [BA14]									

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

LOAD, ASSEMBLE, PACK (LAP)																																			
1	2015	ARMY	22.499	-	22.499																														22.499

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types										Item Number / Title [DODIC]: E98600 / Ctg, Mortar,60MM WP SMOKE M722 SERIES W/PD FUZE [BA14]									

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

LOAD, ASSEMBLE, PACK (LAP)																																			
1	2015	ARMY		22.499	-	22.499	-	-	-	-	-	-	22.499																						-

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E89600 / 60MM Mortar, All Types
		Item Number / Title [DODIC]: E98600 / Ctg, Mortar,60MM WP SMOKE M722 SERIES W/PD FUZE [BA14]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	20,000	20,000	32,000	6	6	24	30	6	4	24	28

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	676.062	42.433	47.500	36.125	2.677	38.802	49.471	41.165	53.878	55.002	-	1,004.313
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	676.062	42.433	47.500	36.125	2.677	38.802	49.471	41.165	53.878	55.002	-	1,004.313
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	676.062	42.433	47.500	36.125	2.677	38.802	49.471	41.165	53.878	55.002	-	1,004.313

(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 budget line includes 81mm Mortar Ammunition, All Types.
The 81mm Mortar cartridges are designed for use with the M252 Mortar Weapon System used by the Stryker Brigade Combat Teams as well as light infantry battalions including Airborne, Air Assault and Ranger.

(E18403)CTG, MORTAR, 81MM HE M821 W/MOFM

The 81mm High Explosive (HE) Cartridges are Insensitive Munitions (IM) enhanced, HE rounds. The 81mm HE Cartridges consist of a fuze, a threaded plastic fuze adapter, a High Fragmentation (HF)-1 steel projectile body loaded with approximately 3lbs. of IMX-104 explosive, a plastic obturating ring, a M24 Fin, the M220 Propelling Charges, and a M299 Ignition Cartridge. The M821A2 HE (Range 70 meter minimum to 5,859 meter maximum) also incorporates the highly reliable and countermeasure resistant M734A1 multi-option fuze. When the fuze is set in the proximity mode, it functions at a height over the target that is optimized for lethality.

IM features of this cartridge reduce the vulnerability to unplanned stimuli, e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat.

These items are Code A, approved for service use.

(E18404)CTG, MORTAR, 81MM HE M889 SERIES W/PD FUZE

The 81mm High Explosive Cartridges are Insensitive Munitions (IM) enhanced, HE rounds. The 81mm HE Cartridges consist of a fuze, a threaded plastic fuze adapter, a HF-1 steel projectile body loaded with approximately 3lbs. of IMX-104 explosive, a plastic obturating ring, a M24 Fin, the M220 Propelling Charges, and a M299 Ignition Cartridge. The M889A2 HE (Range 70 meter minimum to 5,859 meter maximum) is used with the new M783 dual safety, point detonating/delay fuze. This round is used primarily in training because it is significantly less expensive than the M821A2, the preferred war fighting round. However, the M889A2 is lethal and can be used in combat.

IM features of this cartridge reduce the vulnerability to unplanned stimuli, e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat.

These items are Code A, approved for service use.

(E69600)CTG, MORTAR, 81MM FRPC M879 SERIES W/PRACTICE FUZE

The M879 is a low-cost, full range, practice round that will replace a percentage of the standard HE rounds used in 81mm mortar training. The M879 FRPC (Range 70 meter minimum to 5,800 meter maximum) has been designed to provide the user with realistic training at a fraction of the cost. It is identical in shape, size and weight to the M889A2/M821A2 HE cartridges. The flash, bang and smoke signature provided by the M751 fuze is channeled to exhaust holes in the rear of the cartridge through the use of a center vent tube.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>This item is Code A, approved for service use.</p> <p>(E76100)CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE The M853A1 cartridge is a fin stabilized, mortar cartridge that consists of a M772 Mechanical Time Super Quick (MTSQ) fuze, a thin wall aluminum body tube and aluminum tail cone that contains the payload (parachute and canister), and a fin assembly that contains the ignition cartridge and propelling charges. The payload is base ejected and upon ignition produces visible light illumination. This visible light illumination allows for monitoring of enemy activities and adjustment of fire at greater observation distances during night operations. It also provides a means for day/night signaling. It is particularly useful in combined operations with allies who may not have night vision devices (NVDs). This round illuminates to the full range of the HE round, which allows adjustment of fire at any distance out to the maximum range. The M853A1 (Range 300 meter minimum and 5,050 maximum) is range-matched to the 81mm High Explosive (HE) and smoke cartridges. This item is Code A, approved for service use.</p> <p>(E76200)CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE The M819 Cartridge is a fin stabilized thin wall steel body tube containing 28 pelletized red phosphorous (RP) wedges; it uses the highly reliable M772 Mechanical Time Super Quick (MTSQ) fuze. After a set time delay, the RP wedges are ejected and dispersed on the target to quickly produce an obscuring smoke screen. A full screen can be developed with 3 rounds as opposed to 15 rounds with the M375 series WP cartridge that is used to create smoke screens to cover movement of troops and/or disrupt visibility of enemy forces. This cartridge was modified to include Gas Absorbent Modules (GAMS) that absorb the phosphine gas emitted by the RP to keep the round stable. The M819 (Range 300 meter minimum and 4,900 maximum) is range-matched to the 81mm High Explosive (HE) and Illum cartridges. This item is code A, approved for service use.</p>		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Number / Title:
E76000 / 81MM Mortar, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E18403 / CTG, MORTAR, 81MM HE M821 SERIES W/MOFM [CA61]	P-5a, P-21	A	- / 274.634	- / 0.919	23,156 / 17.122	- / -	- / -	- / -
P-5	E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]	P-5a, P-21	A	- / 91.714	9,758 / 6.634	8,610 / 5.734	18,724 / 12.600	4,420 / 2.677	23,144 / 15.277
P-5	E69600 / CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACT FUZE [C875]	P-5a, P-21	A	- / 129.849	75,876 / 14.012	44,566 / 10.000	76,116 / 17.300	- / -	76,116 / 17.300
P-5	E76100 / CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE [C871]	P-5a, P-21	A	- / 104.097	16,895 / 12.529	11,224 / 8.600	- / -	- / -	- / -
P-5	E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]	P-5a, P-21	A	- / 75.766	11,662 / 8.339	8,379 / 6.044	8,131 / 6.225	- / -	8,131 / 6.225
P-40	Total Gross/Weapon System Cost			- / 676.062	- / 42.433	- / 47.500	- / 36.125	- / 2.677	- / 38.802

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$36.125 million supports production of 102,971 cartridges.
 FY 2017 OCO procurement dollars in the amount of \$2.677 million supports 4,420 cartridges.

E18403 - CTG, MORTAR, 81MM HE M821 SERIES W/MOFM

This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.
 TYPE CLASSIFICATION DATE: June 1996

E18404 - CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE

This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$12.600 million supports production of 18,724 cartridges. FY 2017 OCO includes \$2.677 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurement supports production of 4,420 cartridges.
 TYPE CLASSIFICATION DATE: July 2009

E69600 - CTG, MORTAR, 81MM FRPC M879 SERIES W/PRACTICE FUZE

This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$17.300 million supports production of 76,116 cartridges.
 TYPE CLASSIFICATION DATE: August 1986

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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	

E76100 - CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE
This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.
TYPE CLASSIFICATION DATE: December 1986

E76200 - CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE
This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement in the amount of \$6.225 million supports production of 8,131 cartridges.
TYPE CLASSIFICATION DATE: December 1986

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E18403 / CTG, MORTAR, 81MM HE M821 SERIES W/MOFM [CA61]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	23,156	-	-	-
Gross/Weapon System Cost (\$ in Millions)	274.634	0.919	17.122	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	274.634	0.919	17.122	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	274.634	0.919	17.122	-	-	-

(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)	-	-	739.42	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	274.634	-	-	-	82.69	23,156	1.915	-	-	-	-	-	-	-	-	-
FUZE MOFM, M734A1 ^(†)	-	-	-	-	-	-	334.33	23,851	7.974	-	-	-	-	-	-	-	-	-
SHELL BODY, 81MM HE ^(†)	-	-	-	-	-	-	51.50	23,851	1.228	-	-	-	-	-	-	-	-	-
IGN CTG M299 ^(†)	-	-	-	-	-	-	17.36	23,851	0.414	-	-	-	-	-	-	-	-	-
CHG PROP 81MM M220 ^(†)	-	-	-	-	-	-	12.94	95,403	1.235	-	-	-	-	-	-	-	-	-
FIN MORTAR CTG M24 F/81MM ^(†)	-	-	-	-	-	-	16.13	23,851	0.385	-	-	-	-	-	-	-	-	-
PBXW-14 BULK EXPLOSIVE ^(†)	-	-	-	-	-	-	83.42	2,779	0.232	-	-	-	-	-	-	-	-	-
EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	-	-	-	22.74	97,256	2.212	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	274.634	-	-	-	-	-	15.594	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	274.634	-	-	-	-	-	15.594	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.215	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E18403 / CTG, MORTAR, 81MM HE M821 SERIES W/MOFM [CA61]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.215	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.919	-	-	1.312	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.919	-	-	1.312	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	274.634	-	-	0.919	739.42	23,156	17.122	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types					Item Number / Title [DODIC]: E18403 / CTG, MORTAR, 81MM HE M821 SERIES W/MOFM [CA61]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(t)		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2018	23,156	82.69	Y		
FUZE MOFM, M734A1		2016	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Nov 2017	23,851	334.33	Y		
SHELL BODY, 81MM HE		2016	TO BE SELECTED / TBS02	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	23,851	51.50	Y		
IGN CTG M299		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2016	Sep 2017	23,851	17.36	Y		
CHG PROP 81MM M220		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2016	Sep 2017	95,403	12.94	Y		
FIN MORTAR CTG M24 F/81MM		2016	TO BE SELECTED / TBS02	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	23,851	16.13	Y		
PBXW-14 BULK EXPLOSIVE		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Nov 2017	2,779	83.42	Y		
EXPLOSIVE FILL IMX-104		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Nov 2017	97,256	22.74	Y		

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

Remarks:
 Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: NAMMO POCAL INC., Scranton, PA; DZI Lonestar LLC., Texarkana, TX. and American Ordnance, Middletown, IA. HE LAP: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; Day and Zimmerman, Parsons, KS; General Dynamics, LeGardeur, Canada; American Ordnance, Middletown, IA. HE Shell Bodies: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico Industries, Wilkes Barre, PA; Modern Industries, Erie, PA; T&A Screw Products, Terryville, CT. Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: General Dynamics, Marion, IL; Day and Zimmerman, Camden, AR and American Ordnance, Middletown, IA. Fins: IDIQ awarded (Sep 11) to multiple contractors. Requirements will be competed among the following contractors: Flexible Concepts INC. Elkhart, IN and Gayston Corp., Springboro, OH.

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Exhibit P-21, Production Schedule: PB 2017 Army																		Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33											P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types											Item Number / Title [DODIC]: E18403 / CTG, MORTAR, 81MM HE M821 SERIES W/MOFM [CA61]										

Cost Elements <i>(Units in Thousands)</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					

LOAD, ASSEMBLE, PACK (LAP)																																
1	2016	ARMY		23.156		-	23.156						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.156

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types										Item Number / Title [DODIC]: E18403 / CTG, MORTAR, 81MM HE M821 SERIES W/MOFM [CA61]									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

LOAD, ASSEMBLE, PACK (LAP)																																			
1	2016	ARMY		23.156	-	23.156	-	-	-	-	-	12.000	11.156																						-

							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
		Item Number / Title [DODIC]: E18403 / CTG, MORTAR, 81MM HE M821 SERIES W/MOFM [CA61]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	6,000	12,000	30,000	6	6	24	30	6	6	24	30

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army											Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]							
ID Code (A=Service Ready, B=Not Service Ready) : A											MDAP/MAIS Code:							
Resource Summary				Prior Years		FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO		FY 2017 Total	
Procurement Quantity (<i>Units in Each</i>)				-		9,758			8,610			18,724			4,420		23,144	
Gross/Weapon System Cost (<i>\$ in Millions</i>)				91.714		6.634			5.734			12.600			2.677		15.277	
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-			-			-			-		-	
Net Procurement (P-1) (<i>\$ in Millions</i>)				91.714		6.634			5.734			12.600			2.677		15.277	
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-			-			-			-		-	
Total Obligation Authority (<i>\$ in Millions</i>)				91.714		6.634			5.734			12.600			2.677		15.277	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (<i>\$ in Millions</i>)				-		-			-			-			-		-	
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		679.85			665.97			672.93			605.66		660.08	

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	91.714	76.12	9,758	0.743	82.69	8,610	0.712	84.13	18,724	1.575	84.13	4,420	0.372	84.13	23,144	1.947
FUZE POINT DETONATOR M783 ^(†)	-	-	-	148.09	10,051	1.488	250.00	8,868	2.217	229.39	19,285	4.424	229.39	4,553	1.044	229.39	23,838	5.468
SHELL BODY, 81MM HE ^(†)	-	-	-	50.49	10,051	0.507	51.50	8,868	0.457	52.50	19,285	1.012	52.50	4,553	0.239	52.50	23,838	1.251
IGN CTG M299 ^(†)	-	-	-	14.35	10,051	0.144	17.36	8,868	0.154	17.70	19,285	0.341	17.70	4,553	0.081	17.70	23,838	0.422
CHG PROP 81MM M220 ^(†)	-	-	-	9.97	40,203	0.401	12.94	35,473	0.459	15.47	77,143	1.193	15.47	18,210	0.282	15.47	95,353	1.475
FIN MORTAR CTG M24 F/81MM ^(†)	-	-	-	14.95	10,051	0.150	16.13	8,868	0.143	16.43	19,285	0.317	16.43	4,553	0.075	16.43	23,838	0.392
PBXW-14 BULK EXPLOSIVE ^(†)	-	-	-	81.83	1,132	0.093	83.42	1,033	0.086	85.04	2,247	0.191	85.04	530	0.045	85.04	2,777	0.236
EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	-	-	-	22.74	36,162	0.822	27.00	78,640	2.123	27.00	18,564	0.501	27.00	97,204	2.625
*EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	23.33	31,714	0.740	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	91.714	-	-	4.267	-	-	5.050	-	-	11.177	-	-	2.639	-	-	13.816
<i>Subtotal: Hardware Cost</i>	-	-	91.714	-	-	4.267	-	-	5.050	-	-	11.177	-	-	2.639	-	-	13.816
Support - Acceptance Testing Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]
ID Code (A=Service Ready, B=Not Service Ready) : A		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)
Acceptance Test	-	-	-	-	-	0.110	-	-	0.110	-	-	0.165	-	-	0.038	-	-	0.203
First Article Test	-	-	-	-	-	0.023	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.133	-	-	0.110	-	-	0.165	-	-	0.038	-	-	0.203
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-0.740	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	-0.740	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Qualification Test	-	-	-	-	-	0.026	-	-	-	-	-	-	-	-	-	-	-	-
Insensitive Munitions	-	-	-	-	-	0.059	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	0.085	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.578	-	-	0.574	-	-	1.259	-	-	-	-	-	1.259
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.578	-	-	0.574	-	-	1.259	-	-	-	-	-	1.259
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	2.312	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	2.312	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	91.714	679.85	9,758	6.634	665.97	8,610	5.734	672.93	18,724	12.600	605.66	4,420	2.677	660.08	23,144	15.277

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types					Item Number / Title [DODIC]: E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	GEN DYNAMICS ORD & TAC SYS - / LE GARDEUR, CANADA	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2015	May 2017	9,758	76.12	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	May 2018	8,610	82.69	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	23,144	84.13	Y		
FUZE POINT DETONATOR M783		2015	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	10,051	148.09	Y		
FUZE POINT DETONATOR M783		2016	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Jun 2016	Feb 2018	8,868	250.00	Y		
FUZE POINT DETONATOR M783		2017	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Oct 2018	23,838	229.39	Y		
SHELL BODY, 81MM HE		2015	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	May 2015	Nov 2016	10,051	50.49	Y		
SHELL BODY, 81MM HE		2016	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	8,868	51.50	Y		
SHELL BODY, 81MM HE		2017	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	23,838	52.50	Y		
IGN CTG M299		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2015	Nov 2016	10,051	14.35	Y		
IGN CTG M299		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	8,868	17.36	Y		
IGN CTG M299		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	23,838	17.70	Y		
CHG PROP 81MM M220		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2015	Jan 2017	40,203	9.97	Y		
CHG PROP 81MM M220		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	35,473	12.94	Y		
CHG PROP 81MM M220		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	95,353	15.47	Y		
FIN MORTAR CTG M24 F/81MM		2015	GAYSTON CORPORATION / MIAMISBURG, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2015	Dec 2016	10,051	14.95	Y		
FIN MORTAR CTG M24 F/81MM		2016	TO BE SELECTED / TBS02	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	8,868	16.13	Y		
FIN MORTAR CTG M24 F/81MM		2017	TO BE SELECTED / TBS02	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	23,838	16.43	Y		
PBXW-14 BULK EXPLOSIVE		2015	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Mar 2017	1,132	81.83	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types				Item Number / Title [DODIC]: E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]					

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
PBXW-14 BULK EXPLOSIVE		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	1,033	83.42	Y		
PBXW-14 BULK EXPLOSIVE		2017	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	2,777	85.04	Y		
EXPLOSIVE FILL IMX-104		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	36,162	22.74	Y		
EXPLOSIVE FILL IMX-104		2017	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	97,204	27.00	Y		
*EXPLOSIVE FILL IMX-104		2015	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	31,714	23.33			

(†) indicates the presence of a P-21

Remarks:

HE LAP: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; Day and Zimmerman, Parsons, KS; General Dynamics, LeGardeur, Canada; American Ordnance, Middletown, IA. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA; American Ordnance, Middletown, IA; and DZI Lonestar LLC., Texarkana, TX. HE Shell Bodes: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico Industries, Wilkes Barre, PA; Modern Industries, Erie, PA; T&A Screw Products, Terryville, CT. M220 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA; and General Dynamics, Marion IL. Fins: IDIQ awarded (Jul 12) to multiple contractors. Requirements will be competed among the following contractors: Gayston Corp., Springboro, OH and T&A Screw Products, Terryville, CT.

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Exhibit P-21, Production Schedule: PB 2017 Army										Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types										Item Number / Title [DODIC]: E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]				

Cost Elements (Units in Thousands)						Fiscal Year 2015													Fiscal Year 2016													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
	1	2015	ARMY	9.758	-	9.758																											9.758
	2	2016	ARMY	8.610	-	8.610																											8.610
	2	2017	ARMY	23.144	-	23.144																											23.144
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types										Item Number / Title [DODIC]: E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]									

Cost Elements <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	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
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	9.758	-	9.758	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	2	2016	ARMY	8.610	-	8.610	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.610		
	2	2017	ARMY	23.144	-	23.144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.144		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019													Fiscal Year 2020													BALANCE							
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									
LOAD, ASSEMBLE, PACK (LAP)																																							
	1	2015	ARMY	9.758	9.758	-																																	
	2	2016	ARMY	8.610	8.610	-																																	
	2	2017	ARMY	23.144	-	23.144	-	-	-	-	-	10.420	12.724																										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
		Item Number / Title [DODIC]: E18404 / CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE [CA63]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	GEN DYNAMICS ORD & TAC SYS - - LE GARDEUR, CANADA	6,000	12,000	30,000	6	6	24	30	6	6	24	30
2	TO BE SELECTED - TBS01	6,000	12,000	30,000	6	6	24	30	6	6	24	30

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E69600 / CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACT FUZE [C875]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	75,876	44,566	76,116	-	76,116
Gross/Weapon System Cost (\$ in Millions)	129.849	14.012	10.000	17.300	-	17.300
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	129.849	14.012	10.000	17.300	-	17.300
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	129.849	14.012	10.000	17.300	-	17.300

(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)	-	-	-	227.28	-	227.28

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	129.849	37.31	75,876	2.831	39.98	44,566	1.782	37.83	76,116	2.879	-	-	-	37.83	76,116	2.879
FUZE PRACTICE, M751 ^(†)	-	-	-	18.52	78,152	1.447	24.26	45,903	1.114	19.74	78,399	1.548	-	-	-	19.74	78,399	1.548
SHELL BODY, 81MM FRPC ^(†)	-	-	-	42.29	78,152	3.305	41.84	45,903	1.921	43.42	78,399	3.404	-	-	-	43.42	78,399	3.404
IGN CTG M299 ^(†)	-	-	-	14.35	78,152	1.121	17.36	45,903	0.797	17.70	78,399	1.388	-	-	-	17.70	78,399	1.388
CHG PROP 81MM M220 ^(†)	-	-	-	9.97	312,609	3.117	12.94	183,612	2.376	15.47	313,597	4.851	-	-	-	15.47	313,597	4.851
FIN MORTAR CTG M24 F/81MM ^(†)	-	-	-	14.95	78,152	1.168	16.13	45,903	0.740	16.43	78,399	1.288	-	-	-	16.43	78,399	1.288
<i>Subtotal: Recurring Cost</i>	-	-	<i>129.849</i>	-	-	<i>12.990</i>	-	-	<i>8.729</i>	-	-	<i>15.358</i>	-	-	-	-	-	<i>15.358</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>129.849</i>	-	-	<i>12.990</i>	-	-	<i>8.729</i>	-	-	<i>15.358</i>	-	-	-	-	-	<i>15.358</i>
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.193	-	-	0.270	-	-	0.442	-	-	-	-	-	0.442
First Article Test	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	<i>0.243</i>	-	-	<i>0.270</i>	-	-	<i>0.442</i>	-	-	-	-	-	<i>0.442</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.780	-	-	1.000	-	-	1.500	-	-	-	-	-	1.500

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E69600 / CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACT FUZE [C875]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Production Engineering Cost</i>	-	-	-	-	-	0.780	-	-	1.000	-	-	1.500	-	-	-	-	-	1.500
Gross/Weapon System Cost	-	-	129.849	-	75,876	14.012	-	44,566	10.000	227.28	76,116	17.300	-	-	-	227.28	76,116	17.300

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types				Item Number / Title [DODIC]: E69600 / CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACT FUZE [C875]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	DAY & ZIMMERMANN LONE STAR / CAMDEN, AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2015	Apr 2017	75,876	37.31	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2018	44,566	39.98	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	76,116	37.83	Y		
FUZE PRACTICE, M751		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	78,152	18.52	Y		
FUZE PRACTICE, M751		2016	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	45,903	24.26	Y		
FUZE PRACTICE, M751		2017	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2017	Sep 2018	78,399	19.74	Y		
SHELL BODY, 81MM FRPC		2015	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	78,152	42.29	Y		
SHELL BODY, 81MM FRPC		2016	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	45,903	41.84	Y		
SHELL BODY, 81MM FRPC		2017	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	78,399	43.42	Y		
IGN CTG M299		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2015	Nov 2016	78,152	14.35	Y		
IGN CTG M299		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	45,903	17.36	Y		
IGN CTG M299		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	78,399	17.70	Y		
CHG PROP 81MM M220		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2015	Jan 2017	312,609	9.97	Y		
CHG PROP 81MM M220		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	183,612	12.94	Y		
CHG PROP 81MM M220		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	313,597	15.47	Y		
FIN MORTAR CTG M24 F/81MM		2015	GAYSTON CORPORATION / MIAMISBURG, OH	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2015	Dec 2015	78,152	14.95	Y		
FIN MORTAR CTG M24 F/81MM		2016	TO BE SELECTED / TBS02	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	45,903	16.13	Y		
FIN MORTAR CTG M24 F/81MM		2017	TO BE SELECTED / TBS02	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	78,399	16.43	Y		

^(†) indicates the presence of a P-21

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E69600 / CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACT FUZE [C875]

Remarks:
 FRPC LAP: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; Pocal Industries, Scranton, PA; Day and Zimmerman, Parsons, KS; Chemring Ordnance, Perry, FL. FRPC Shell Bodes: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico Industries, Wilkes Barre, PA; Modern Industries, Erie, PA. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: NAMMO POCAL INC., Scranton, PA; DZI Lonestar LLC., Texarkana, TX and American Ordnance, Middletown, IA. M220 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA; and General Dynamics, Marion, IL. Fins: IDIQ awarded (Jul 12) to multiple contractors. Requirements will be competed among the following contractors: Gayston Corp., Springboro, OH and T&A Screw Machine INC., Waterbury, CT.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types										Item Number / Title [DODIC]: E69600 / CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACT FUZE [C875]									

Cost Elements <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	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			
LOAD, ASSEMBLE, PACK (LAP)																																		
	1	2015	ARMY	75.876	-	75.876	-	-	-	-	-	-	-	12.000	12.000	12.000	12.000	12.000	15.876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	2016	ARMY	44.566	-	44.566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.000	12.000	12.000	8.566	-	-	-	-	-	-	-	-
	2	2017	ARMY	76.116	-	76.116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76.116
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
Item Number / Title [DODIC]: E69600 / CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACT FUZE [C875]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	DAY & ZIMMERMANN LONE STAR - CAMDEN, AR	10,000	12,000	24,000	6	6	24	30	6	6	24	30
2	TO BE SELECTED - TBS01	10,000	12,000	24,000	6	6	24	30	6	6	24	30

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E76100 / CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE [C871]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	16,895	11,224	-	-	-
Gross/Weapon System Cost (\$ in Millions)	104.097	12.529	8.600	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	104.097	12.529	8.600	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	104.097	12.529	8.600	-	-	-

(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)	-	741.58	766.22	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	104.097	85.75	16,895	1.449	102.91	11,224	1.155	-	-	-	-	-	-	-	-	-
FUZE MTSQ, M772 ^(†)	-	-	-	205.00	17,402	3.567	201.51	11,561	2.330	-	-	-	-	-	-	-	-	-
BODY TUBE, 81MM ILLUM ^(†)	-	-	-	29.47	17,402	0.513	27.63	11,561	0.319	-	-	-	-	-	-	-	-	-
TAIL CONE, 81MM ILLUM ^(†)	-	-	-	14.67	17,402	0.255	22.90	11,561	0.265	-	-	-	-	-	-	-	-	-
IGN CTG M752 ^(†)	-	-	-	19.69	17,402	0.343	20.08	11,561	0.232	-	-	-	-	-	-	-	-	-
CHG PROP 81MM M219 ^(†)	-	-	-	10.67	69,607	0.743	12.94	46,243	0.598	-	-	-	-	-	-	-	-	-
FIN MORTAR CTG M28 F/81MM M819 RP ^(†)	-	-	-	16.10	17,402	0.280	19.52	11,561	0.226	-	-	-	-	-	-	-	-	-
ILLUM CANDLE VL F/81MM M853A1 ^(†)	-	-	-	151.04	17,402	2.628	156.53	11,561	1.810	-	-	-	-	-	-	-	-	-
PARACHUTE, 81MM ^(†)	-	-	-	25.85	17,402	0.450	31.72	11,561	0.367	-	-	-	-	-	-	-	-	-
FIBER CONTAINER PA 162, 81MM ^(†)	-	-	-	5.74	17,402	0.100	5.85	11,561	0.068	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E76100 / CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE [C871]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)
METAL CONTAINER PA 157, 81MM ^(†)	-	-	-	51.23	5,913	0.303	52.25	3,928	0.205	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	104.097	-	-	10.631	-	-	7.574	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	104.097	-	-	10.631	-	-	7.574	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.205	-	-	0.164	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.205	-	-	0.164	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.693	-	-	0.861	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	1.693	-	-	0.861	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	104.097	741.58	16,895	12.529	766.22	11,224	8.600	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
2034A / 01 / 33			E76000 / 81MM Mortar, All Types					E76100 / CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE [C871]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Jul 2017	16,895	85.75	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2016	Jul 2018	11,224	102.91	Y		
FUZE MTSQ, M772		2015	JUNGHANS MICROTEC GMBH / DUNNINGEN, GERMANY	PO	OTHER	May 2015	Dec 2016	17,402	205.00	Y		
FUZE MTSQ, M772		2016	JUNGHANS MICROTEC GMBH / DUNNINGEN, GERMANY	PO	OTHER	Mar 2016	Sep 2017	11,561	201.51	Y		
BODY TUBE, 81MM ILLUM		2015	LEWIS ENGINEERING COMPANY / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	17,402	29.47	Y		
BODY TUBE, 81MM ILLUM		2016	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	11,561	27.63	Y		
TAIL CONE, 81MM ILLUM		2015	LEWIS ENGINEERING COMPANY / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	17,402	14.67	Y		
TAIL CONE, 81MM ILLUM		2016	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	11,561	22.90	Y		
IGN CTG M752		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2015	Feb 2017	17,402	19.69	Y		
IGN CTG M752		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	11,561	20.08	Y		
CHG PROP 81MM M219		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2015	Jan 2017	69,607	10.67	Y		
CHG PROP 81MM M219		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	46,243	12.94	Y		
FIN MORTAR CTG M28 F/81MM M819 RP		2015	FLEXIBLE CONCEPTS, INC. / ELKHART, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2015	Nov 2016	17,402	16.10	Y		
FIN MORTAR CTG M28 F/81MM M819 RP		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	11,561	19.52	Y		
ILLUM CANDLE VL F/81MM M853A1		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Dec 2016	17,402	151.04	Y		
ILLUM CANDLE VL F/81MM M853A1		2016	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2016	Sep 2017	11,561	156.53	Y		
PARACHUTE, 81MM		2015	YOLAND CORPORATION / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2015	Aug 2016	17,402	25.85	Y		
PARACHUTE, 81MM		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	11,561	31.72	Y		
FIBER CONTAINER PA 162, 81MM		2015	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	17,402	5.74	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types				Item Number / Title [DODIC]: E76100 / CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE [C871]				

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
FIBER CONTAINER PA 162, 81MM		2016	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	C / IDIQ	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	11,561	5.85	Y		
METAL CONTAINER PA 157, 81MM		2015	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL, NJ	Aug 2015	Mar 2016	5,913	51.23	Y		
METAL CONTAINER PA 157, 81MM		2016	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	3,928	52.25	Y		

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

Remarks:

81MM Illum Body Tubes and Tail Cones: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico, Wilkes Barre, PA and Lewis Engineering, Marshall, TX. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: NAMMO POCAL INC., Scranton, PA ;DZI Lonestar, LLC., Texarka, TX and American Ordnance, Middletown, IA. M28 Fin: IDIQ awarded (Sept 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston Corporation, Springboro, OH and Flexible Concepts, Elkhart, IN. M219 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA and General Dynamics, Marion, IL. 81MM Parachutes: IDIQ awarded (Aug 10) to multiple contractors. Requirements will be competed among the following contractors: North American Aerodynamics INC., Roxboro, NC and Yoland Corp. Jamaica, NY.

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
		Item Number / Title [DODIC]: E76100 / CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE [C871]

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		S E P
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	16.895	-	16.895																								16.895	
	1	2016	ARMY	11.224	-	11.224																								11.224	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types										Item Number / Title [DODIC]: E76100 / CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE [C871]									

Cost Elements <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	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
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	16.895	-	16.895	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	1	2016	ARMY	11.224	-	11.224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.224	-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
Item Number / Title [DODIC]: E76100 / CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE [C871]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	12,000	16,000	28,800	6	6	28	34	6	4	28	32

"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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	11,662	8,379	8,131	-	8,131
Gross/Weapon System Cost (\$ in Millions)	75.766	8.339	6.044	6.225	-	6.225
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	75.766	8.339	6.044	6.225	-	6.225
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	75.766	8.339	6.044	6.225	-	6.225

(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)	-	715.06	721.33	765.59	-	765.59

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	75.766	149.21	11,662	1.740	181.76	8,379	1.523	202.85	8,131	1.649	-	-	-	202.85	8,131	1.649
BODY TUBE, 81MM RP SMK ^(†)	-	-	-	24.37	12,012	0.293	38.82	8,630	0.335	30.58	8,374	0.256	-	-	-	30.58	8,374	0.256
FUZE MTSQ, M772 ^(†)	-	-	-	205.00	12,012	2.462	201.51	8,630	1.739	213.07	8,374	1.784	-	-	-	213.07	8,374	1.784
IGN CTG M752 ^(†)	-	-	-	19.69	12,012	0.237	20.08	8,630	0.173	20.47	8,374	0.171	-	-	-	20.47	8,374	0.171
PROPELLANT CHARGE, M218 ^(†)	-	-	-	10.67	48,047	0.513	12.94	34,521	0.447	14.93	33,499	0.500	-	-	-	14.93	33,499	0.500
FIN MORTAR CTG M28 F/81MM M819 RP ^(†)	-	-	-	16.10	12,012	0.193	19.52	8,630	0.168	19.90	8,374	0.167	-	-	-	19.90	8,374	0.167
TAIL CONE, 81MM SMOKE ^(†)	-	-	-	22.29	12,012	0.268	29.89	8,630	0.258	25.48	8,374	0.213	-	-	-	25.48	8,374	0.213
GAMS ^(†)	-	-	-	10.18	24,257	0.247	10.39	17,261	0.179	10.58	16,749	0.177	-	-	-	10.58	16,749	0.177
RED PHOSPHOROUS PELLETT ^(†)	-	-	-	13.00	34,986	0.455	12.82	25,137	0.322	13.19	28,458	0.375	-	-	-	13.19	28,458	0.375
FIBER CONTAINER PA 162, 81MM ^(†)	-	-	-	5.74	12,012	0.069	5.85	8,630	0.050	6.37	8,374	0.053	-	-	-	6.37	8,374	0.053

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)
METAL CONTAINER PA 157, 81MM ^(†)	-	-	-	51.23	4,082	0.209	52.25	2,933	0.153	57.52	2,845	0.164	-	-	-	57.52	2,845	0.164
<i>Subtotal: Recurring Cost</i>	-	-	75.766	-	-	6.685	-	-	5.349	-	-	5.511	-	-	-	-	-	5.511
<i>Subtotal: Hardware Cost</i>	-	-	75.766	-	-	6.685	-	-	5.349	-	-	5.511	-	-	-	-	-	5.511
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.141	-	-	0.089	-	-	0.089	-	-	-	-	-	0.089
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.141	-	-	0.089	-	-	0.089	-	-	-	-	-	0.089
Support - Product Improvement Cost																		
Production Qualification Test	-	-	-	-	-	0.401	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	0.401	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.111	-	-	0.607	-	-	0.626	-	-	-	-	-	0.626
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	1.111	-	-	0.607	-	-	0.626	-	-	-	-	-	0.626
Gross/Weapon System Cost	-	-	75.766	715.06	11,662	8.339	721.33	8,379	6.044	765.59	8,131	6.225	-	-	-	765.59	8,131	6.225

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types				Item Number / Title [DODIC]: E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]					
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2018	11,662	149.21	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Jan 2016	Oct 2018	8,379	181.76	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jan 2019	8,131	202.85	Y		
BODY TUBE, 81MM RP SMK		2015	LEWIS ENGINEERING COMPANY / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	12,012	24.37	Y		
BODY TUBE, 81MM RP SMK		2016	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	8,630	38.82	Y		
BODY TUBE, 81MM RP SMK		2017	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	8,374	30.58	Y		
FUZE MTSQ, M772		2015	JUNGHANS MICROTEC GMBH / DUNNINGEN, GERMANY	PO	OTHER	May 2015	Feb 2017	12,012	205.00	Y		
FUZE MTSQ, M772		2016	JUNGHANS MICROTEC GMBH / DUNNINGEN, GERMANY	PO	OTHER	Feb 2016	Oct 2017	8,630	201.51	Y		
FUZE MTSQ, M772		2017	JUNGHANS MICROTEC GMBH / DUNNINGEN, GERMANY	PO	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	8,374	213.07	Y		
IGN CTG M752		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2015	Nov 2016	12,012	19.69	Y		
IGN CTG M752		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	8,630	20.08	Y		
IGN CTG M752		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	8,374	20.47	Y		
PROPELLANT CHARGE, M218		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2015	Dec 2016	48,047	10.67	Y		
PROPELLANT CHARGE, M218		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	34,521	12.94	Y		
PROPELLANT CHARGE, M218		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	33,499	14.93	Y		
FIN MORTAR CTG M28 F/81MM M819 RP		2015	FLEXIBLE CONCEPTS, INC. / ELKHART, IN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2015	Nov 2016	12,012	16.10	Y		
FIN MORTAR CTG M28 F/81MM M819 RP		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	8,630	19.52	Y		
FIN MORTAR CTG M28 F/81MM M819 RP		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	8,374	19.90	Y		
TAIL CONE, 81MM SMOKE		2015	LEWIS ENGINEERING COMPANY / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	12,012	22.29	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types				Item Number / Title [DODIC]: E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]				

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
TAIL CONE, 81MM SMOKE		2016	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	8,630	29.89	Y		
TAIL CONE, 81MM SMOKE		2017	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	8,374	25.48	Y		
GAMS		2015	DESIGN WEST TECHNOLOGIES, / TUSTIN, CA	C / FFP	PICATINNY ARSENAL, NJ	Aug 2015	Feb 2017	24,257	10.18	Y		
GAMS		2016	DESIGN WEST TECHNOLOGIES, / TUSTIN, CA	C / FFP	PICATINNY ARSENAL, NJ	Jan 2016	Jul 2017	17,261	10.39	Y		
GAMS		2017	DESIGN WEST TECHNOLOGIES, / TUSTIN, CA	C / FFP	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	16,749	10.58	Y		
RED PHOSPHOROUS PELLET		2015	CLARIANT CORPORATION / CHARLOTTE, NC	C / FFP	ROCK ISLAND ARSENAL, IL	May 2015	Dec 2016	34,986	13.00	Y		
RED PHOSPHOROUS PELLET		2016	CLARIANT CORPORATION / CHARLOTTE, NC	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	25,137	12.82	Y		
RED PHOSPHOROUS PELLET		2017	CLARIANT CORPORATION / CHARLOTTE, NC	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	28,458	13.19	Y		
FIBER CONTAINER PA 162, 81MM		2015	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	12,012	5.74	Y		
FIBER CONTAINER PA 162, 81MM		2016	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	8,630	5.85	Y		
FIBER CONTAINER PA 162, 81MM		2017	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	8,374	6.37	Y		
METAL CONTAINER PA 157, 81MM		2015	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL, NJ	Aug 2015	Feb 2017	4,082	51.23	Y		
METAL CONTAINER PA 157, 81MM		2016	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	2,933	52.25	Y		
METAL CONTAINER PA 157, 81MM		2017	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	2,845	57.52	Y		

(†) indicates the presence of a P-21

Remarks:

Body Tubes and Tail Cones: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Lewis Engineering Co., Marshall, TX; Medico Industries Inc., Wilkes Barre, PA and Woodlawn MFG. Inc., Marshall, TX. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: NAMMO POCAL INC., Scranton, PA; DZI Lonestar LLC., Texarkana, TX and American Ordnance, Middletown, IA. Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: General Dynamics, Marion, IL; Day and Zimmerman, Camden, AR and American Ordnance, Middletown, IA. Fins: IDIQ awarded (Sep 11) to multiple contractors. Requirements will be competed among the following contractors: Flexible Concepts Inc. Elkhart, IN and Gayston Corp., Springboro, OH.

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
		Item Number / Title [DODIC]: E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]

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		S E P
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	11.662	-	11.662																								11.662	
	1	2015	MC (†)	6.719	-	6.719																								6.719	
	1	2015	Total	18.381	-	18.381																								18.381	
	1	2016	ARMY	8.379	-	8.379																								8.379	
	1	2017	ARMY	8.131	-	8.131																								8.131	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
		Item Number / Title [DODIC]: E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]

Cost Elements <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	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					
LOAD, ASSEMBLE, PACK (LAP)																																			
	1	2015	ARMY	11.662	-	11.662	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.662	-					
	1	2015	MC (†)	6.719	-	6.719	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.719	-					
	1	2015	Total	18.381	-	18.381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.381	-					
	1	2016	ARMY	8.379	-	8.379	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.379					
	1	2017	ARMY	8.131	-	8.131				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.131					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
		Item Number / Title [DODIC]: E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019													Fiscal Year 2020													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
	1	2015	ARMY	11.662	11.662	-																								-			
	1	2015	MC (†)	6.719	6.719	-																								-			
	1	2015	Total	18.381	18.381	-																								-			
	1	2016	ARMY	8.379	-	8.379	8.379																							-			
	1	2017	ARMY	8.131	-	8.131	-	-	-	-	8.131																			-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E76000 / 81MM Mortar, All Types
		Item Number / Title [DODIC]: E76200 / CTG, MORTAR, 81MM RP SMOKE M819 SERIES W/MTSQ FUZE [C870]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	16,000	16,000	28,000	6	6	24	30	6	4	24	28

(‡) 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).

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition	P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	916.330	39.365	71.372	69.133	-	69.133	83.328	69.823	99.832	115.346	-	1,464.529
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	916.330	39.365	71.372	69.133	-	69.133	83.328	69.823	99.832	115.346	-	1,464.529
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	916.330	39.365	71.372	69.133	-	69.133	83.328	69.823	99.832	115.346	-	1,464.529

(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 budget line item includes 120MM Mortars, All Types.
The 120mm Mortar Cartridges are designed for use with the M120, 120mm Towed Mortar System and the M121 Carrier Mortar System as well as use with the Brigade Combat Team Mortar System.

(E25502)CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE

The M933A1 120mm High Explosive (HE) cartridge with the M783 Point Detonating/ Delay (PD/DLY) Fuze is used against personnel, bunker and light materiel targets. It consists of a Steel Shell Body with Composition B fill, and aluminum M31 Fin Assembly. The propulsion system utilizes the M1020 Ignition Cartridge and four horseshoe-shaped, water-resistant M234 Propelling Charges. The M933A1 HE (Range 200 meter minimum to 7,200 meter maximum) is used with the new M783 dual safety, point detonating/delay fuze. This round is used primarily in training because it is significantly less expensive than the M934A1, the preferred war fighting round. However, the M933A1 is lethal and can be used in combat.

This item is Code A, approved for service use.

(E25507)CTG, MORTAR, 120MM FRPC M931 SERIES W/PRACT FUZE

The M931 is a low-cost, full range, practice round that will replace a percentage of the standard HE rounds used in 120mm mortar training. The M931 FRPC (Range 200 meter minimum to 7,200 meter maximum) has been designed to provide the user with realistic training for 120mm Mortar crews at a fraction of the cost. It is identical in shape, size and weight to the M933A1/M934A1 HE cartridges. The M931 is equipped with M781 PD Practice Fuze. The M781 PD Practice Fuze produces a flash, bang, and smoke signature that provides audio/visual feedback to the mortar crew and forward observer.

This item is Code A, approved for service use.

(E91300)CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM

The M929 White Phosphorous (WP) Smoke Cartridge is used to provide smoke, with some incendiary effect for various screening missions. The cartridge is filled with 5 lbs of WP. The M929 uses the highly reliable and countermeasure resistant M734A1 multi-option fuze when functions, detonates the burster, which disperses the felt pads which are soaked with WP over the target. The smoke obscuration is generated by a spontaneous reaction between the WP and oxygen. The M929 (Range 200 meter minimum and 7,200 maximum) is range-matched to the 120mm High Explosive (HE) and Illum cartridges.

This item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Number / Title:
E25500 / 120MM Mortar, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]	P-5a, P-21	A	- / 344.172	23,495 / 16.114	23,295 / 21.782	16,964 / 14.800	- / -	16,964 / 14.800
P-5	E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]	P-5a, P-21	A	- / 393.661	55,425 / 23.251	64,416 / 31.000	105,035 / 54.333	- / -	105,035 / 54.333
P-5	E91300 / CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM [CA03]	P-5a, P-21	A	- / 178.497	- / -	13,229 / 18.590	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 916.330	- / 39.365	- / 71.372	- / 69.133	- / -	- / 69.133

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$69.133 million supports production of 121,999 cartridges.

(E25502)CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE
This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement in the amount of \$14.800 million supports production of 16,964 cartridges.
TYPE CLASSIFICATION DATE: 2009

(E25507)CTG, MORTAR, 120MM FRPC M931 SERIES W/PRACT FUZE
This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$54.333 million supports production of 105,035 cartridges.
TYPE CLASSIFICATION DATE: 1996

(E91300)CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM
This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.
TYPE CLASSIFICATION DATE: 1996

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]									
ID Code (A=Service Ready, B=Not Service Ready) : A									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)				-			23,495			23,295			16,964			-			16,964		
Gross/Weapon System Cost (\$ in Millions)				344.172			16.114			21.782			14.800			-			14.800		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				344.172			16.114			21.782			14.800			-			14.800		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				344.172			16.114			21.782			14.800			-			14.800		
<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)				-			685.85			935.05			872.44			-			872.44		
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 Cost																					
Recurring Cost																					
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	344.172	122.64	23,495	2.881	156.38	23,294	3.643	127.44	16,964	2.162	-	-	-	127.44	16,964	2.162			
FUZE POINT DETONATOR M783 ^(†)	-	-	-	148.09	24,200	3.584	250.00	23,993	5.998	229.39	17,472	4.008	-	-	-	229.39	17,472	4.008			
SHELL BODY, 120MM HE ^(†)	-	-	-	93.96	24,200	2.274	103.87	23,993	2.492	105.89	17,472	1.850	-	-	-	105.89	17,472	1.850			
IGNITION CARTRIDGE, M1020 ^(†)	-	-	-	22.30	24,200	0.540	24.05	23,993	0.577	24.51	17,472	0.428	-	-	-	24.51	17,472	0.428			
PROPELLANT CHARGE, M234A1 ^(†)	-	-	-	19.79	96,799	1.916	22.67	95,972	2.176	27.71	69,891	1.937	-	-	-	27.71	69,891	1.937			
FIN ASSEMBLY, M31 ^(†)	-	-	-	40.89	24,200	0.990	40.26	23,993	0.966	45.00	17,472	0.786	-	-	-	45.00	17,472	0.786			
FUZE ADAPTER, 120MM ^(†)	-	-	-	10.91	24,200	0.264	22.75	23,993	0.546	-	-	-	-	-	-	-	-	-			
COMP B TYPE I GRADE A ^(†)	-	-	-	11.65	89,211	1.039	17.91	209,646	3.755	13.25	152,676	2.023	-	-	-	13.25	152,676	2.023			
<i>Subtotal: Recurring Cost</i>	-	-	<i>344.172</i>	-	-	<i>13.487</i>	-	-	<i>20.152</i>	-	-	<i>13.194</i>	-	-	-	-	-	<i>13.194</i>			
<i>Subtotal: Hardware Cost</i>	-	-	<i>344.172</i>	-	-	<i>13.487</i>	-	-	<i>20.152</i>	-	-	<i>13.194</i>	-	-	-	-	-	<i>13.194</i>			
Support - Acceptance Testing Cost																					

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types	Item Number / Title [DODIC]: E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]
ID Code (A=Service Ready, B=Not Service Ready) : A		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)
Acceptance Test	-	-	-	-	-	0.165	-	-	0.150	-	-	0.126	-	-	-	-	-	0.126
First Article Test	-	-	-	-	-	0.092	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.257	-	-	0.150	-	-	0.126	-	-	-	-	-	0.126
Support - Product Improvement Cost																		
In sensitive Munitions	-	-	-	-	-	0.220	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	0.220	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.839	-	-	1.479	-	-	1.480	-	-	-	-	-	1.480
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	1.839	-	-	1.479	-	-	1.480	-	-	-	-	-	1.480
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.310	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	0.310	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	344.172	685.85	23,495	16.114	935.05	23,295	21.782	872.44	16,964	14.800	-	-	-	872.44	16,964	14.800

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Feb 2018	23,495	122.64	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Apr 2016	Apr 2018	23,294	156.38	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2019	16,964	127.44	Y		
FUZE POINT DETONATOR M783		2015	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	24,200	148.09	Y		
FUZE POINT DETONATOR M783		2016	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Jun 2016	Feb 2018	23,993	250.00	Y		
FUZE POINT DETONATOR M783		2017	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Oct 2018	17,472	229.39	Y		
SHELL BODY, 120MM HE		2015	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / FFP	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	24,200	93.96	Y		
SHELL BODY, 120MM HE		2016	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / FFP	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	23,993	103.87	Y		
SHELL BODY, 120MM HE		2017	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	17,472	105.89	Y		
IGNITION CARTRIDGE, M1020		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	24,200	22.30	Y		
IGNITION CARTRIDGE, M1020		2016	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	23,993	24.05	Y		
IGNITION CARTRIDGE, M1020		2017	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	17,472	24.51	Y		
PROPELLANT CHARGE, M234A1		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2015	Jan 2017	96,799	19.79	Y		
PROPELLANT CHARGE, M234A1		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	95,972	22.67	Y		
PROPELLANT CHARGE, M234A1		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	69,891	27.71	Y		
FIN ASSEMBLY, M31		2015	MACHINING TECHNOLOGIES INC / SALISBURY, MD	C / FFP	PICATINNY ARSENAL, NJ	Jul 2015	Feb 2017	24,200	40.89	Y		
FIN ASSEMBLY, M31		2016	MACHINING TECHNOLOGIES INC / SALISBURY, MD	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	23,993	40.26	Y		
FIN ASSEMBLY, M31		2017	MACHINING TECHNOLOGIES INC / SALISBURY, MD	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	17,472	45.00	Y		
FUZE ADAPTER, 120MM		2015	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Sep 2015	Apr 2017	24,200	10.91	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types				Item Number / Title [DODIC]: E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]				

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
FUZE ADAPTER, 120MM		2016	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	23,993	22.75	Y		
COMP B TYPE I GRADE A		2015	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Mar 2016	89,211	11.65	Y		
COMP B TYPE I GRADE A		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	209,646	17.91	Y		
COMP B TYPE I GRADE A		2017	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	152,676	13.25	Y		

(†) indicates the presence of a P-21

Remarks:

M234A1 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletwon, IA; General Dynamics, Marion, IL.

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Exhibit P-21, Production Schedule: PB 2017 Army						Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types				Item Number / Title [DODIC]: E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]			

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
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	23.495	-	23.495																								23.495	
	1	2016	ARMY	23.294	-	23.294																								23.294	
	1	2017	ARMY	16.964	-	16.964																								16.964	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army														Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types														Item Number / Title [DODIC]: E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]							

Cost Elements (Units in Thousands)						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
LOAD, ASSEMBLE, PACK (LAP)																														
	1	2015	ARMY	23.495	-	23.495	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	2016	ARMY	23.294	-	23.294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	2017	ARMY	16.964	-	16.964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	23.495	23.495	-																								-	
	1	2016	ARMY	23.294	23.294	-																								-	
	1	2017	ARMY	16.964	-	16.964	-	-	-	-	-	-	8.000	8.964																-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types
Item Number / Title [DODIC]: E25502 / CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE [CA44]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	5,000	10,000	20,000	6	6	24	30	6	6	24	30

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types
		Item Number / Title [DODIC]: E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	55,425	64,416	105,035	-	105,035
Gross/Weapon System Cost (\$ in Millions)	393.661	23.251	31.000	54.333	-	54.333
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	393.661	23.251	31.000	54.333	-	54.333
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	393.661	23.251	31.000	54.333	-	54.333

(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)	-	419.50	481.25	517.28	-	517.28

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	393.661	97.91	55,425	5.427	122.39	64,416	7.884	101.95	105,035	10.708	-	-	-	101.95	105,035	10.708
FUZE PRACTICE, M781 ^(†)	-	-	-	18.59	57,088	1.061	19.37	66,348	1.285	19.74	108,097	2.134	-	-	-	19.74	108,097	2.134
SHELL BODY, 120MM FRPC ^(†)	-	-	-	90.38	57,088	5.160	98.68	66,348	6.547	150.32	108,097	16.249	-	-	-	150.32	108,097	16.249
IGNITION CARTRIDGE, M1020 ^(†)	-	-	-	22.30	57,088	1.273	24.05	66,348	1.596	24.51	108,097	2.649	-	-	-	24.51	108,097	2.649
PROPELLANT CHARGE, M234A1 ^(†)	-	-	-	19.79	228,351	4.519	22.67	265,394	6.016	27.71	432,389	11.981	-	-	-	27.71	432,389	11.981
FIN ASSEMBLY, M31 ^(†)	-	-	-	40.89	57,088	2.334	40.26	66,348	2.671	45.00	108,097	4.864	-	-	-	45.00	108,097	4.864
FUZE ADAPTER, 120MM ^(†)	-	-	-	10.31	57,088	0.589	22.75	66,348	1.509	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>393.661</i>	-	-	<i>20.363</i>	-	-	<i>27.509</i>	-	-	<i>48.587</i>	-	-	-	-	-	<i>48.587</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>393.661</i>	-	-	<i>20.363</i>	-	-	<i>27.509</i>	-	-	<i>48.587</i>	-	-	-	-	-	<i>48.587</i>
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.325	-	-	0.382	-	-	0.580	-	-	-	-	-	0.580

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types	Item Number / Title [DODIC]: E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.325	-	-	0.382	-	-	0.580	-	-	-	-	-	0.580
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	2.492	-	-	3.110	-	-	5.168	-	-	-	-	-	5.168
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	2.492	-	-	3.110	-	-	5.168	-	-	-	-	-	5.168
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.071	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.071	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	393.661	419.50	55,425	23.251	481.25	64,416	31.000	517.28	105,035	54.333	-	-	-	517.28	105,035	54.333

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Feb 2018	55,425	97.91	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jul 2016	Jul 2018	64,416	122.39	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2019	105,035	101.95	Y		
FUZE PRACTICE, M781		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	57,088	18.59	Y		
FUZE PRACTICE, M781		2016	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	66,348	19.37	Y		
FUZE PRACTICE, M781		2017	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	108,097	19.74	Y		
SHELL BODY, 120MM FRPC		2015	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / FFP	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	57,088	90.38	Y		
SHELL BODY, 120MM FRPC		2016	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / FFP	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	66,348	98.68	Y		
SHELL BODY, 120MM FRPC		2017	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	108,097	150.32	Y		
IGNITION CARTRIDGE, M1020		2015	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	57,088	22.30	Y		
IGNITION CARTRIDGE, M1020		2016	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	66,348	24.05	Y		
IGNITION CARTRIDGE, M1020		2017	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	108,097	24.51	Y		
PROPELLANT CHARGE, M234A1		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2015	Jan 2017	228,351	19.79	Y		
PROPELLANT CHARGE, M234A1		2016	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	265,394	22.67	Y		
PROPELLANT CHARGE, M234A1		2017	TO BE SELECTED / TBS02	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	432,389	27.71	Y		
FIN ASSEMBLY, M31		2015	MACHINING TECHNOLOGIES INC / SALISBURY, MD	C / FFP	PICATINNY ARSENAL, NJ	Jul 2015	Feb 2017	57,088	40.89	Y		
FIN ASSEMBLY, M31		2016	MACHINING TECHNOLOGIES INC / SALISBURY, MD	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	66,348	40.26	Y		
FIN ASSEMBLY, M31		2017	MACHINING TECHNOLOGIES INC / SALISBURY, MD	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	108,097	45.00	Y		
FUZE ADAPTER, 120MM		2015	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Sep 2015	Apr 2017	57,088	10.31	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types				Item Number / Title [DODIC]: E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]					
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
FUZE ADAPTER, 120MM		2016	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	66,348	22.75	Y		

(†) indicates the presence of a P-21

Remarks:

M234A1 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA and General Dynamics, Marion, IL.

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Exhibit P-21, Production Schedule: PB 2017 Army			Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types	
Item Number / Title [DODIC]: E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]			

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	S E P			

LOAD, ASSEMBLE, PACK (LAP)																																				
1	2015	ARMY	55.425	-	55.425																														55.425	
1	2016	ARMY	64.416	-	64.416																															64.416
1	2017	ARMY	105.035	-	105.035																															105.035
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]				

Cost Elements <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						
LOAD, ASSEMBLE, PACK (LAP)																																					
	1	2015	ARMY	55.425	-	55.425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	10.000	10.000	10.000	10.000	5.425	-	-	
	1	2016	ARMY	64.416	-	64.416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.575	10.000	10.000	39.841
	1	2017	ARMY	105.035	-	105.035																															105.035
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]									

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	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				
LOAD, ASSEMBLE, PACK (LAP)																																		
	1	2015	ARMY	55.425	55.425	-																							-					
	1	2016	ARMY	64.416	24.575	39.841	10.000	10.000	10.000	9.841																			-					
	1	2017	ARMY	105.035	-	105.035	-	-	-	-	-	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	5.035									-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types
		Item Number / Title [DODIC]: E25507 / CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE [CA09]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	5,000	10,000	20,000	6	6	24	30	6	6	24	30

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types
		Item Number / Title [DODIC]: E91300 / CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM [CA03]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	13,229	-	-	-
Gross/Weapon System Cost (\$ in Millions)	178.497	-	18.590	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	178.497	-	18.590	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	178.497	-	18.590	-	-	-

(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)	-	-	1,405.25	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	178.497	-	-	-	393.27	13,229	5.203	-	-	-	-	-	-	-	-	-
SHELL BODY, 120MM SMK ^(†)	-	-	-	-	-	-	228.52	13,626	3.114	-	-	-	-	-	-	-	-	-
BURSTER ASSEMBLY, M86 ^(†)	-	-	-	-	-	-	49.37	13,626	0.673	-	-	-	-	-	-	-	-	-
PROPELLANT CHARGE, M234A1 ^(†)	-	-	-	-	-	-	22.67	54,503	1.236	-	-	-	-	-	-	-	-	-
FUZE MOFM, M734A1 ^(†)	-	-	-	-	-	-	334.33	13,626	4.556	-	-	-	-	-	-	-	-	-
IGNITION CARTRIDGE, M1020 ^(†)	-	-	-	-	-	-	24.05	13,626	0.328	-	-	-	-	-	-	-	-	-
BURSTER HOUSING, 120MM SMOKE ^(†)	-	-	-	-	-	-	31.23	13,626	0.426	-	-	-	-	-	-	-	-	-
FIN ASSEMBLY, M31 ^(†)	-	-	-	-	-	-	40.26	13,626	0.549	-	-	-	-	-	-	-	-	-
FIBER CONTAINER PA 167, 120MM ^(†)	-	-	-	-	-	-	11.70	13,626	0.159	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types	Item Number / Title [DODIC]: E91300 / CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM [CA03]
ID Code (A=Service Ready, B=Not Service Ready) : A		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)
METAL CONTAINER PA 154, 120MM ^(t)	-	-	-	-	-	-	56.62	6,879	0.389	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	178.497	-	-	-	-	-	16.631	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	178.497	-	-	-	-	-	16.631	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.099	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.099	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	1.859	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	1.859	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	178.497	-	-	-	1,405.25	13,229	18.590	-	-	-	-	-	-	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types				Item Number / Title [DODIC]: E91300 / CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM [CA03]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Jan 2016	Jan 2018	13,229	393.27	Y		
SHELL BODY, 120MM SMK		2016	MEDICO INDUSTRIES INC. / WILKES BARRE, PA	C / FFP	PICATINNY ARSENAL, NJ	May 2016	Nov 2017	13,626	228.52	Y		
BURSTER ASSEMBLY, M86		2016	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2016	Jul 2017	13,626	49.37	Y		
PROPELLANT CHARGE, M234A1		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	54,503	22.67	Y		
FUZE MOFM, M734A1		2016	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jun 2016	Feb 2017	13,626	334.33	Y		
IGNITION CARTRIDGE, M1020		2016	NAMMO POCAL INC. / SCRANTON, PA	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	13,626	24.05	Y		
BURSTER HOUSING, 120MM SMOKE		2016	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2016	Jul 2017	13,626	31.23	Y		
FIN ASSEMBLY, M31		2016	MACHINING TECHNOLOGIES INC / SALISBURY, MD	C / FFP	PICATINNY ARSENAL, NJ	Feb 2016	Aug 2017	13,626	40.26	Y		
FIBER CONTAINER PA 167, 120MM		2016	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	13,626	11.70	Y		
METAL CONTAINER PA 154, 120MM		2016	BWAY CORPORATION / ATLANTA, GA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	6,879	56.62	Y		

^(†) indicates the presence of a P-21

Remarks:

Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: General Dynamics, Marion, IL; Day and Zimmerman, Camden, AR and American Ordnance, Middletown, IA.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E91300 / CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM [CA03]									

Cost Elements <i>(Units in Thousands)</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

LOAD, ASSEMBLE, PACK (LAP)																															
1	2016	ARMY	13.229	-	13.229				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.229

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E91300 / CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM [CA03]											

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2018												Fiscal Year 2019												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2016	ARMY	13.229	-	13.229	-	-	-	13.229																			-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33		P-1 Line Item Number / Title: E25500 / 120MM Mortar, All Types
Item Number / Title [DODIC]: E91300 / CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM [CA03]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	12,000	12,000	24,000	6	6	24	30	6	4	24	28

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	3,524.940	101.900	105.541	120.668	8.999	129.667	122.385	147.928	239.751	256.954	-	4,629.066
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,524.940	101.900	105.541	120.668	8.999	129.667	122.385	147.928	239.751	256.954	-	4,629.066
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,524.940	101.900	105.541	120.668	8.999	129.667	122.385	147.928	239.751	256.954	-	4,629.066

(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 budget line includes CARTRIDGE, TANK, 105MM and 120MM ALL TYPES:

(E22125) M724A1E1 Cartridge will replace the (E22100) M724A1 Cartridge and provide the Army with a range limited (7,000 meters, maximum) round which can be safely fired at all training sites. The Cartridge, M724A1E1, 105mm Target Practice Discarding Sabot with Tracer (TPDS-T) is used for gunnery training in the Army's 105mm Stryker Brigade Combat Team (SBCT) Mobile Gun System (MGS). This discarding sabot round is similar in external appearance and is ballistically similar out to 2,000 meters with the M900, Armor Piercing Fin Stabilized Discarding Sabot w/Tracer Cartridge. It is used as a training surrogate for the M900 Cartridge used by the MGS. The M724A1E1 Cartridge consists of a deep drawn steel cartridge case, electric primer, propellant and a projectile consisting of a sub-projectile (steel core, windshield, fin and tracer) and aluminum sabot. This item is Code A, approved for service use.

(E73201) Cartridge, 120mm, Target Practice Multi Purpose-Tracer (TPMP-T) M1002 is a target practice cartridge that simulates the size, weight, ballistics and the loader's function of setting the nose switch of the High Explosive Multi-Purpose cartridge M830A1. This round is fired from the M256 120mm smoothbore cannon on the M1A1/M1A2 Abrams Tank. The projectile is inert and composed of an aluminum body, steel nose with dummy plastic switch, aluminum tailcone, aluminum sabot, nylon obturators and tracer. The tailcone imparts spin to the projectile in flight for stabilization and provides the mechanism to limit the projectile's maximum range. The M1002 replaces the M831A1 cartridge. Tank crews will conduct live fire training with the cartridge to achieve and maintain gunnery proficiency. This item is Code A, approved for service use.

(E73400) 120mm M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is a target practice round that simulates the ballistics of the 120mm M829 Series Armor Piercing Fin-Stabilized Discarding Sabot with Tracer (APFSDS-T) round. This round is fired from the M256 120mm smoothbore cannon on the M1A1/M1A2 Abrams Tank. The projectile is inert and is composed of a steel core, aluminum fin, aluminum sabots, nylon obturator and tracer. The fin imparts spin to the projectile in flight for stabilization and provides the mechanism to limit the projectile's maximum range. Tank crews will conduct live fire training with the cartridge to achieve and maintain gunnery proficiency. This item is Code A, approved for service use.

(E78007) The 120mm M830A1 High Explosive Anti-Tank, Multi-Purpose w/Tracer,(HEAT-MP-T) cartridge is designed for use against light armor, buildings and bunkers, as well as providing self-defense capability against attack helicopters. The lethal mechanism includes a shaped-charged warhead and blast effect. This round is fired from the M256 120MM smooth-bore cannon mounted on the Abrams tank. Additionally, the M830A1 is effective against the side and rear aspects of tanks and dismantled anti-tank and automatic weapon teams (targets not suitable to kinetic energy penetrator cartridges). The fixed round utilizes a combustible cartridge case affixed to a steel stub base and loaded with granular propellant. The fin-stabilized, high chrome alloy steel projectile body contains press-loaded high explosive and a

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>precision copper liner. The fuze is armed during launch and initiated by an impact switch or proximity sensor, depending upon the operational mode selected by the ammo loader. This item is Code A, approved for service use.</p> <p>(E88106) 120mm M829E4 Armor Piercing Fin Stabilized, Discarding Sabot with Tracer (APFSDS-T) cartridge is the follow on to the M829A3 APFSDS-T cartridge. The M829E4 is the most effective anti-armor kinetic energy cartridge fired from the M256 120mm smoothbore cannon on the M1A1/M1A2 Abrams Tank. This cartridge has been designed to defeat advances in armor protection, specifically advancement in explosive reactive armor (ERA). The cartridge incorporates advancements in propulsion, using a temperature insensitive propellant, novel penetrator design, and an advanced composite sabot. The projectile system consists of a depleted uranium penetrator mated to a drag reducing windshield and flight stabilizing multi-bladed fin, all secured for launch with a composite sabot. The M829E4 captures several new technologies along with components previously used on previous APFSDS-T cartridges, but incorporates technology advancements to yield significant improvement in performance over previous fielded cartridges. This item is Code A, approved for service use.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition

P-1 Line Item Number / Title:
E22203 / Cartridges, Tank, 105MM And 120MM, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E22125 / CTG, TANK, 105MM TPDS-T M724A1E1(short rg KE trnr) [CA58]	P-5a, P-21	A	912 / 7.024	1,729 / 6.103	1,292 / 5.800	1,438 / 5.900	- / -	1,438 / 5.900
P-5	E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]	P-5a, P-21	A	173,652 / 360.355	6,632 / 26.647	4,880 / 32.500	4,880 / 38.328	- / -	4,880 / 38.328
P-5	E73400 / CTG TANK 120MM TPCSDS-T M865 [C785]		A	3,649,000 / 2,591.626	- / 27.915	- / 28.263	- / 31.900	- / -	- / 31.900
P-5	E78007 / CTG, TANK, 120MM HEAT-MP-T M830A1			- / 565.934	- / -	- / -	- / -	- / 8.999	- / 8.999
P-5	E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]	P-5a, P-21	A	- / -	4,690 / 41.235	3,673 / 38.978	3,410 / 44.540	- / -	3,410 / 44.540
P-40	Total Gross/Weapon System Cost			- / 3,524.940	- / 101.900	- / 105.541	- / 120.668	- / 8.999	- / 129.667

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$120.668 million supports the procurement of .015 million cartridges.

(E22125) M724A1E1 – This is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$5.900 million supports the procurement of .001 million M724A1E1 cartridges.

TYPE CLASSIFICATION DATE: 2014

(E73201) M1002 (TPMP-T) - This is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$38.328 million supports the procurement of .005 million M1002 cartridges.

TYPE CLASSIFICATION DATE: 2006

(E73400) M865 (TPCSDS-T) - This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goals. The FY 2017 request provides a safer round by incorporating safety initiatives such as a safer case. FY 2017 Base procurement dollars in the amount of \$31.900 million supports recapitalizing M865 cartridges.

TYPE CLASSIFICATION DATE: 1984

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E78007) M830A1 - This is a war reserve item used in combat. The FY 2017 request builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2017 OCO includes \$8.999 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. FY 2017 OCO dollars in the amount of \$8.999 million supports recapitalizing M830A1 cartridges.</p> <p>TYPE CLASSIFICATION DATE: 1993</p> <p>(E88106) M829E4 (APFSDS-T) - This is a war reserve item used in combat. The FY 2017 request builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$44.540 million supports .003 million M829E4 cartridges.</p> <p>TYPE CLASSIFICATION DATE: 2014</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E22125 / CTG, TANK, 105MM TPDS-T M724A1E1(short rg KE trnr) [CA58]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	912	1,729	1,292	1,438	-	1,438
Gross/Weapon System Cost (\$ in Millions)	7.024	6.103	5.800	5.900	-	5.900
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	7.024	6.103	5.800	5.900	-	5.900
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	7.024	6.103	5.800	5.900	-	5.900

(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)	7,701.75	3,529.79	4,489.16	4,102.92	-	4,102.92

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	6,234.00	912	5.685	2,436.00	1,729	4.212	2,875.48	1,292	3.715	2,513.00	1,438	3.614	-	-	-	2,513.00	1,438	3.614
Subtotal: Recurring Cost	-	-	5.685	-	-	4.212	-	-	3.715	-	-	3.614	-	-	-	-	-	3.614
Subtotal: Hardware Cost	-	-	5.685	-	-	4.212	-	-	3.715	-	-	3.614	-	-	-	-	-	3.614
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.060	-	-	-	-	-	0.060	-	-	0.060	-	-	-	-	-	0.060
First Article Test	-	-	0.132	-	-	-	-	-	0.103	-	-	0.108	-	-	-	-	-	0.108
Subtotal: Support - Acceptance Testing Cost	-	-	0.192	-	-	-	-	-	0.163	-	-	0.168	-	-	-	-	-	0.168
Support - Product Improvement Cost																		
Production Verification Test	-	-	-	-	-	-	-	-	0.250	-	-	0.253	-	-	-	-	-	0.253
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	-	-	-	0.250	-	-	0.253	-	-	-	-	-	0.253
Support - Production Engineering Cost																		
Production Engineering	-	-	1.147	-	-	1.656	-	-	1.672	-	-	1.865	-	-	-	-	-	1.865
Subtotal: Support - Production Engineering Cost	-	-	1.147	-	-	1.656	-	-	1.672	-	-	1.865	-	-	-	-	-	1.865
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.235	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: E22125 / CTG, TANK, 105MM TPDS-T M724A1E1(short rg KE trnr) [CA58]		

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: Support - Study & Analysis Cost</i>	-	-	-	-	-	0.235	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	7,701.75	912	7.024	3,529.79	1,729	6.103	4,489.16	1,292	5.800	4,102.92	1,438	5.900	-	-	-	4,102.92	1,438	5.900

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35			P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types					Item Number / Title [DODIC]: E22125 / CTG, TANK, 105MM TPDS-T M724A1E1(short rg KE trnr) [CA58]				
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
COMPLETE ROUND ^(†)		2015	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Sep 2015	Sep 2016	1,729	2,436.00	Y		
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Mar 2017	1,292	2,875.48	Y		
COMPLETE ROUND ^(†)		2017	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2018	1,438	2,513.00	Y		

^(†) indicates the presence of a P-21

Remarks:
FY 2015, FY 2016, and FY 2017 are an option to an existing contract awarded in FY 2014.

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Exhibit P-21, Production Schedule: PB 2017 Army																				Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E22125 / CTG, TANK, 105MM TPDS-T M724A1E1(short rg KE trnr) [CA58]															
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015														Fiscal Year 2016														B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
COMPLETE ROUND																																			
Prior Years Deliveries: 912																																			
1	2015	ARMY	1,729	-	1,729														A -	-	-	-	-	-	-	-	-	-	145	1,584					
1	2016	ARMY	1,292	-	1,292																A -	-	-	-	-	-	-	-	-	1,292					
1	2017	ARMY	1,438	-	1,438																									1,438					
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E22125 / CTG, TANK, 105MM TPDS-T M724A1E1(short rg KE trnr) [CA58]									

Cost Elements <i>(Units in Each)</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	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					
COMPLETE ROUND																																			
Prior Years Deliveries: 912																																			
1	2015	ARMY		1,729	145	1,584	144	144	144	144	144	144	144	144	144	144													-						
1	2016	ARMY		1,292	-	1,292	-	-	-	-	-	115	107	107	107	107	107	107	107	107	107								-						
1	2017	ARMY		1,438	-	1,438						A -	-	-	-	-	-	-	-	-	-	129	119	119	119	119	119	119	595						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E22125 / CTG, TANK, 105MM TPDS-T M724A1E1(short rg KE trnr) [CA58]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYS ARMAMENT SYS - PLYMOUTH, MN	1,000	2,000	3,000	7	11	12	23	6	6	12	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	173,652	6,632	4,880	4,880	-	4,880
Gross/Weapon System Cost (\$ in Millions)	360.355	26.647	32.500	38.328	-	38.328
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	360.355	26.647	32.500	38.328	-	38.328
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	360.355	26.647	32.500	38.328	-	38.328

(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)	2,075.16	4,017.94	6,659.84	7,854.10	-	7,854.10

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	360.355	2,805.00	6,632	18.603	2,896.06	4,880	14.133	2,993.00	4,880	14.606	-	-	-	2,993.00	4,880	14.606
Subtotal: Recurring Cost	-	-	360.355	-	-	18.603	-	-	14.133	-	-	14.606	-	-	-	-	-	14.606
Subtotal: Hardware Cost	-	-	360.355	-	-	18.603	-	-	14.133	-	-	14.606	-	-	-	-	-	14.606
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.842	-	-	0.873	-	-	0.621	-	-	-	-	-	0.621
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.842	-	-	0.873	-	-	0.621	-	-	-	-	-	0.621
Support - Product Improvement Cost																		
Safety	-	-	-	-	-	4.073	-	-	2.910	-	-	2.593	-	-	-	-	-	2.593
Reliability	-	-	-	-	-	-	-	-	0.893	-	-	1.209	-	-	-	-	-	1.209
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	4.073	-	-	3.803	-	-	3.802	-	-	-	-	-	3.802
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	3.121	-	-	3.251	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	3.121	-	-	3.251	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.008	-	-	0.008	-	-	0.008	-	-	-	-	-	0.008

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.008	-	-	0.008	-	-	0.008	-	-	-	-	-	0.008
Support - Recapitalization Cost																		
Recapitalization	-	-	-	-	-	-	-	-	10.432	-	-	19.291	-	-	-	-	-	19.291
<i>Subtotal: Support - Recapitalization Cost</i>	-	-	-	-	-	-	-	-	10.432	-	-	19.291	-	-	-	-	-	19.291
Gross/Weapon System Cost	2,075.16	173,652	360.355	4,017.94	6,632	26.647	6,659.84	4,880	32.500	7,854.10	4,880	38.328	-	-	-	7,854.10	4,880	38.328

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35			P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]					

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
COMPLETE ROUND ^(†)		2015	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Mar 2017	3,316	2,805.00	Y		
COMPLETE ROUND ^(†)		2015	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	3,316	2,805.00	Y		
COMPLETE ROUND ^(†)		2016	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Feb 2017	2,440	2,896.06	Y		
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Feb 2017	2,440	2,896.06	Y		
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS02	TBD	ROCK ISLAND ARSENAL, IL	Mar 2017	Feb 2018	2,440	2,993.00	Y		
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	TBD	ROCK ISLAND ARSENAL, IL	Mar 2017	Feb 2018	2,440	2,993.00	Y		

^(†) indicates the presence of a P-21

Remarks:
FY 2015 and FY 2016 hardware unit prices are an average unit price for multiple producers. FY 2015 and FY 2016 complete round is awarded as an option to the FY 2012 contract.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]									

Cost Elements <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						
COMPLETE ROUND																																					
	1	2015	ARMY	3,316	-	3,316																												3,316			
	1	2015	MC (†)	513	-	513																												513			
	1	2015	Total	3,829	-	3,829																												3,829			
	2	2015	ARMY	3,316	-	3,316																															
	2	2015	MC (†)	513	-	513																															
	2	2015	Total	3,829	-	3,829																														856	2,973
	1	2016	ARMY	2,440	-	2,440																															
	2	2016	ARMY	2,440	-	2,440																															
	3	2017	ARMY	2,440	-	2,440																															
	4	2017	ARMY	2,440	-	2,440																															

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]									

Cost Elements <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			
COMPLETE ROUND																																	
	1	2015	ARMY	3,316	-	3,316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	1	2015	MC (†)	513	-	513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	1	2015	Total	3,829	-	3,829	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	2	2015	ARMY	3,316	856	2,460	2,460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	2	2015	MC (†)	513	-	513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	2	2015	Total	3,829	856	2,973	2,460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	1	2016	ARMY	2,440	-	2,440	-	-	-	-	-	207	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203			
	2	2016	ARMY	2,440	-	2,440	-	-	-	-	-	207	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203			
	3	2017	ARMY	2,440	-	2,440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	207	203	203	203	203			
	4	2017	ARMY	2,440	-	2,440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	207	203	203	203	203			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]

Cost Elements (Units in Each)					Fiscal Year 2019													Fiscal Year 2020													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 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			
COMPLETE ROUND																																	
	1	2015	ARMY	3,316	3,316	-																							-				
	1	2015	MC (†)	513	513	-																							-				
	1	2015	Total	3,829	3,829	-																							-				
	2	2015	ARMY	3,316	3,316	-																							-				
	2	2015	MC (†)	513	513	-																							-				
	2	2015	Total	3,829	3,829	-																							-				
	1	2016	ARMY	2,440	2,440	-																							-				
	2	2016	ARMY	2,440	2,440	-																							-				
	3	2017	ARMY	2,440	1,628	812	203	203	203	203																			-				
	4	2017	ARMY	2,440	1,628	812	203	203	203	203																			-				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 ORD AND TACT - ST PETERSBURG, FL	500	11,000	33,000	6	6	11	17	6	6	11	17
2	ALLIANT TECHSYS ARMAMENT SYS - PLYMOUTH, MN	500	11,000	33,000	6	6	11	17	6	6	11	17
3	TO BE SELECTED - TBS02	500	11,000	33,000	6	6	11	17	6	6	11	17
4	TO BE SELECTED - TBS01	500	11,000	33,000	6	6	11	17	6	6	11	17

(*) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E73400 / CTG TANK 120MM TPCSDS-T M865 [C785]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	3,649,000	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,591.626	27.915	28.263	31.900	-	31.900
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,591.626	27.915	28.263	31.900	-	31.900
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,591.626	27.915	28.263	31.900	-	31.900

(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)	710.23	-	-	-	-	-

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)
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	1.202	-	-	-	-	-	1.202
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.202	-	-	-	-	-	1.202
Support - Product Improvement Cost																		
Reliability	-	-	-	-	-	2.620	-	-	0.601	-	-	1.142	-	-	-	-	-	1.142
Safety	-	-	-	-	-	2.297	-	-	2.186	-	-	1.561	-	-	-	-	-	1.561
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	4.917	-	-	2.787	-	-	2.703	-	-	-	-	-	2.703
Support - Production Engineering Cost																		
Production Engineering	-	-	2,591.626	-	-	2.363	-	-	2.847	-	-	1.276	-	-	-	-	-	1.276
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	2,591.626	-	-	2.363	-	-	2.847	-	-	1.276	-	-	-	-	-	1.276
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.010	-	-	0.010	-	-	0.009	-	-	-	-	-	0.009
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.010	-	-	0.010	-	-	0.009	-	-	-	-	-	0.009
Support - Recapitalization Cost																		
Recapitalization	-	-	-	-	-	20.625	-	-	22.619	-	-	26.710	-	-	-	-	-	26.710
<i>Subtotal: Support - Recapitalization Cost</i>	-	-	-	-	-	20.625	-	-	22.619	-	-	26.710	-	-	-	-	-	26.710
Gross/Weapon System Cost	710.23	3,649,000	2,591.626	-	-	27.915	-	-	28.263	-	-	31.900	-	-	-	-	-	31.900

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E73400 / CTG TANK 120MM TPCSDS-T M865 [C785]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E78007 / CTG, TANK, 120MM HEAT-MP-T M830A1

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 <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	565.934	-	-	-	8.999	8.999
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	565.934	-	-	-	8.999	8.999
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	565.934	-	-	-	8.999	8.999

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

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

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

Cost Elements	Prior Years			FY 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)
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.234	-	-	0.234
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.234	-	-	0.234
Support - Production Engineering Cost																		
Production Engineering	-	-	565.934	-	-	-	-	-	-	-	-	-	-	-	0.630	-	-	0.630
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	565.934	-	-	-	-	-	-	-	-	-	-	-	0.630	-	-	0.630
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	0.003
Support - Recapitalization Cost																		
Recapitalization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.132	-	-	8.132
<i>Subtotal: Support - Recapitalization Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.132	-	-	8.132
Gross/Weapon System Cost	-	-	565.934	-	-	-	-	-	-	-	-	-	-	-	8.999	-	-	8.999

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army											Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35						P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types						Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]						
ID Code (A=Service Ready, B=Not Service Ready) : A											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)				-		4,690			3,673			3,410			-		3,410	
Gross/Weapon System Cost (\$ in Millions)				-		41.235			38.978			44.540			-		44.540	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				-		41.235			38.978			44.540			-		44.540	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Total Obligation Authority (\$ in Millions)				-		41.235			38.978			44.540			-		44.540	
<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)				-		8,792.11			10,612.03			13,061.58			-		13,061.58	

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	7,534.18	4,690	35.335	9,430.86	3,673	34.640	11,200.00	3,410	38.192	-	-	-	11,200.00	3,410	38.192
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	35.335	-	-	34.640	-	-	38.192	-	-	-	-	-	38.192
Non Recurring Cost																		
NonRecurring Engineering	-	-	-	-	-	1.754	-	-	-	-	-	2.151	-	-	-	-	-	2.151
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	1.754	-	-	-	-	-	2.151	-	-	-	-	-	2.151
Subtotal: Hardware Cost	-	-	-	-	-	37.089	-	-	34.640	-	-	40.343	-	-	-	-	-	40.343
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.256	-	-	-	-	-	0.256
First Article Test	-	-	-	-	-	-	-	-	0.156	-	-	0.188	-	-	-	-	-	0.188
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.156	-	-	0.444	-	-	-	-	-	0.444
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	4.146	-	-	3.982	-	-	3.540	-	-	-	-	-	3.540
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	4.146	-	-	3.982	-	-	3.540	-	-	-	-	-	3.540
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	-	-	-	0.200	-	-	0.213	-	-	-	-	-	0.213

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Study & Analysis Cost</i>	-	-	-	-	-	-	-	-	0.200	-	-	0.213	-	-	-	-	-	0.213
Gross/Weapon System Cost	-	-	-	8,792.11	4,690	41.235	10,612.03	3,673	38.978	13,061.58	3,410	44.540	-	-	-	13,061.58	3,410	44.540

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35			P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types					Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]				
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
COMPLETE ROUND ^(†)		2015	ALLIANT TECHSYSTEMS INC. / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Sep 2015	Nov 2016	4,690	7,534.18	Y		
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYSTEMS INC. / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Jul 2016	Sep 2017	3,673	9,430.86	Y		
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	Mar 2017	May 2018	3,410	11,200.00	Y		

^(†) indicates the presence of a P-21

Remarks:
FY 2016 is an option to an existing contract awarded in FY 2015.

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]	

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													BALANCE
OC	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		

COMPLETE ROUND																															
1	2015	ARMY		4,690	-	4,690														A -	-	-	-	-	-	-	-	-	-	4,690	
1	2016	ARMY		3,673	-	3,673																						A -	-	-	3,673
2	2017	ARMY		3,410	-	3,410																								3,410	
							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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]									

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
COMPLETE ROUND																															
	1	2015	ARMY	4,690	-	4,690	-	4,690																					-		
	1	2016	ARMY	3,673	-	3,673	-	-	-	-	-	-	-	-	-	-	-	3,673												-	
	2	2017	ARMY	3,410	-	3,410											A	-	-	-	-	-	-	-	-	-	-	3,410	-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYSTEMS INC. - PLYMOUTH, MN	1,000	3,000	5,000	6	9	15	24	6	6	14	20
2	TO BE SELECTED - TBS01	1,000	3,000	5,000	6	6	15	21	6	6	14	20

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Number / Title: E15101 / Artillery Cartridges, 75MM & 105MM, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	2,732.686	40.548	62.756	64.800	-	64.800	58.900	64.500	63.000	56.758	-	3,143.948
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,732.686	40.548	62.756	64.800	-	64.800	58.900	64.500	63.000	56.758	-	3,143.948
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,732.686	40.548	62.756	64.800	-	64.800	58.900	64.500	63.000	56.758	-	3,143.948

(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:

(E15101)Artillery Cartridges, 75MM And 105MM, All Types
This budget line includes Cartridge, Artillery, 75mm & 105mm, All Types.

(E15200)CTG, ARTY, 75MM BLANK, M337A1

The 75mm M337A2 is a non-tactical blank cartridge fired from a M116 Howitzer that is used in burial, retreat ceremonies and VIP Salutes. It consists of a cartridge case containing loosely packed black powder and a press-fitted percussion primer. A fiberglass wad is inserted over the black powder and a polystyrene closing cup is cemented in place with a polyester resin adhesive. When the firing pin of the weapon strikes the primer, a flash is generated which ignites the black powder charge producing flash, smoke, and a loud report to simulate weapon firing. This item is Code A, approved for service use.

(E21501)CTG, ARTY, 105MM HE, M1 W/O FUZE

The 105mm M1 High Explosive (HE) cartridge contains a HE fill and is used primarily for training although some cartridges are expended in combat operations for fragmentation and blast. The cartridge is loaded with an M67 propellant charge, consisting of seven numbered increment bags sewn together in numerical order. Projectile function is dependent upon the fuze used and may function on impact (instantaneous or delay), above ground at a predetermined height or in proximity to the target area. Fuze function detonates the HE projectile filler resulting in projectile fragmentation and blast. Range varies from 3.5 to 11.3 kilometers, depending on the number of charge bags used. The program remanufactures/recapitalizes the remaining unserviceable cartridges through replacement of M67 Prop Charge and Primer at a reduced cost over new production to provide a cost effective training cartridge. Funding for the 105MM HE, M1 program in FY 2015 through FY 2017 is for recapitalization. This item is Code A, approved for service use.

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Number / Title:
E15101 / Artillery Cartridges, 75MM & 105MM, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E15200 / CTG, ARTY, 75MM BLANK, M337A1 [C025]	P-5a, P-21	A	- / 55.019	46,201 / 4.435	- / -	64,948 / 7.000	- / -	64,948 / 7.000
P-5	E21501 / CTG, ARTY, 105MM HE, M1 W/O FUZE [C445]		A	- / 2,677.667	- / 36.113	- / 62.756	- / 57.800	- / -	- / 57.800
P-40	Total Gross/Weapon System Cost			- / 2,732.686	- / 40.548	- / 62.756	- / 64.800	- / -	- / 64.800

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$64.800 million supports new production of 64,948 cartridges and 240,000 RECAP Cartridges.

(E15200)CTG, ARTY, 75MM BLANK, M337A1
 This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level inventory in accordance with the Army procurement goals. FY 2017 Base procurement in the amount of \$7.000 million supports production of 64,948 cartridges.
 TYPE CLASSIFICATION DATE: 1975

(E21501)CTG, ARTY, 105MM HE, M1 W/O FUZE
 This program will remanufacture/recapitalize unserviceable rounds in the inventory. This is a training standard item used in both training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army procurement goals. FY 2017 Base procurement dollars in the amount of \$57.800 million will supports production of 240,000 recapitalized cartridges.
 TYPE CLASSIFICATION DATE: 1966

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E15101 / Artillery Cartridges, 75MM & 105MM, All Types
		Item Number / Title [DODIC]: E15200 / CTG, ARTY, 75MM BLANK, M337A1 [C025]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	46,201	-	64,948	-	64,948
Gross/Weapon System Cost (\$ in Millions)	55.019	4.435	-	7.000	-	7.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	55.019	4.435	-	7.000	-	7.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	55.019	4.435	-	7.000	-	7.000

(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)	-	95.99	-	107.78	-	107.78

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	55.019	77.91	46,201	3.600	-	-	-	81.62	64,948	5.301	-	-	-	81.62	64,948	5.301
BLACK POWDER CLASS 1 ^(†)	-	-	-	-	-	-	-	-	-	15.37	64,948	0.998	-	-	-	15.37	64,948	0.998
*BLACK POWDER CLASS 1 ^(†)	-	-	-	14.82	46,201	0.685	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>55.019</i>	-	-	<i>4.284</i>	-	-	-	-	-	<i>6.299</i>	-	-	-	-	-	<i>6.299</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>55.019</i>	-	-	<i>4.284</i>	-	-	-	-	-	<i>6.299</i>	-	-	-	-	-	<i>6.299</i>
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-0.685	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	<i>-0.685</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.835	-	-	-	-	-	0.701	-	-	-	-	-	0.701
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.835</i>	-	-	-	-	-	<i>0.701</i>	-	-	-	-	-	<i>0.701</i>
Gross/Weapon System Cost	-	-	55.019	95.99	46,201	4.435	-	-	-	107.78	64,948	7.000	-	-	-	107.78	64,948	7.000

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E15101 / Artillery Cartridges, 75MM & 105MM, All Types	Item Number / Title [DODIC]: E15200 / CTG, ARTY, 75MM BLANK, M337A1 [C025]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E15101 / Artillery Cartridges, 75MM & 105MM, All Types				Item Number / Title [DODIC]: E15200 / CTG, ARTY, 75MM BLANK, M337A1 [C025]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Jan 2016	Jan 2017	46,201	77.91	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	64,948	81.62	Y		
BLACK POWDER CLASS 1		2017	GOEX POWDER, INC. / MINDEN, LA	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Jan 2018	64,948	15.37	Y		
*BLACK POWDER CLASS 1		2015	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	PICATINNY ARSENAL, NJ	Sep 2015	Sep 2015	46,201	14.82			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army											Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity:						P-1 Line Item Number / Title:											Item Number / Title [DODIC]:														
2034A / 01 / 37						E15101 / Artillery Cartridges, 75MM & 105MM, All Types											E15200 / CTG, ARTY, 75MM BLANK, M337A1 [C025]														
Cost Elements (Units in Thousands)						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	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J		J	A	S
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A		U	U	U
T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C					
LOAD, ASSEMBLE, PACK (LAP)																															
1	2015	ARMY	46.201	-	46.201																										46.201
1	2017	ARMY	64.948	-	64.948																										64.948

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E15101 / Artillery Cartridges, 75MM & 105MM, All Types	Item Number / Title [DODIC]: E15200 / CTG, ARTY, 75MM BLANK, M337A1 [C025]

Cost Elements <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	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
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	46.201	-	46.201	-	-	-	20.500	12.000	13.701																	-		
	1	2017	ARMY	64.948	-	64.948						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E15101 / Artillery Cartridges, 75MM & 105MM, All Types
		Item Number / Title [DODIC]: E15200 / CTG, ARTY, 75MM BLANK, M337A1 [C025]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	11,000	20,500	57,400	6	6	12	18	6	6	12	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E15101 / Artillery Cartridges, 75MM & 105MM, All Types	Item Number / Title [DODIC]: E21501 / CTG, ARTY, 105MM HE, M1 W/O FUZE [C445]

ID Code (A=Service Ready, B=Not Service Ready) : A				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)		2,677.667	36.113	62.756	57.800	-	57.800
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		2,677.667	36.113	62.756	57.800	-	57.800
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		2,677.667	36.113	62.756	57.800	-	57.800
<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)
Support - Recapitalization Cost																		
Recapitalization	-	-	2,677.667	-	-	36.113	-	-	62.756	-	-	57.800	-	-	-	-	-	57.800
<i>Subtotal: Support - Recapitalization Cost</i>	-	-	2,677.667	-	-	36.113	-	-	62.756	-	-	57.800	-	-	-	-	-	57.800
Gross/Weapon System Cost	-	-	2,677.667	-	-	36.113	-	-	62.756	-	-	57.800	-	-	-	-	-	57.800

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	660.881	64.023	87.995	109.515	30.348	139.863	103.862	106.909	95.401	114.302	-	1,373.236
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	660.881	64.023	87.995	109.515	30.348	139.863	103.862	106.909	95.401	114.302	-	1,373.236
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	660.881	64.023	87.995	109.515	30.348	139.863	103.862	106.909	95.401	114.302	-	1,373.236

(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:

(E89500)ARTILLERY PROJECTILE, 155MM, ALL TYPES

This budget line includes Projectiles, Artillery, 155mm, All Types.

(E21618)PROJ, ARTY, 155MM EXT RANGE MARKING RD M110A3

The 155mm Smoke White Phosphorous (WP) M110A3 Artillery Round utilizes projectile bodies generated from the current M483 Dual Purpose Improved Conventional Munition (DPICM) demilitarization program and incorporates a more producible WP Bulk-filled Canister with 15.0 lbs of WP that provides smoke spotting capability to a maximum range of 22.5 kilometers providing increased operational effectiveness and improved training.

This item is Code A, not approved for service use.

(E26904)PROJ, Arty, 155MM IR ILLUM M1123

The 155mm M1123 Infrared Illumination projectile is used with night vision devices to illuminate a designated target area to a maximum range of 17.5 kilometers. The projectile has a hollow, steel-forged body containing an illumination canister, a canister expelling charge in the nose and a drogue parachute in the base. The illumination canister contains the main parachute and lines, the illumination candle assembly and secondary expelling charge and a delay element holder. The outer shell of the canister is fitted with four longitudinal fins. The projectile uses an Electronic Time Fuze. When the fuze functions, the primary expelling charge ignites forcing the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute deploys and the canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 8 seconds igniting the candle and expelling the main parachute. With the main parachute open, the illuminate candle descends at 15 feet per second and burns for 120 seconds. The M1123 Provides Infrared battlefield illumination that is 2.4x larger in diameter than the M1066 Infrared Illuminating projectile.

This item is Code A, approved for service use.

(E26900)PROJ, ARTY, 155MM VL ILLUM M1124

The 155MM Visual Light Illumination M1124 fired from 155mm howitzers is used to illuminate the battlefield to a maximum range of 17.5 kilometers. The projectile has a hollow, steel-forged body containing an illumination canister, a canister expelling charge in the nose and a drogue parachute in the base. The illuminate canister contains the main parachute and lines, the illuminate candle assembly and secondary expelling charge and a delay element holder. The outer shell of the canister is fitted with four longitudinal fins. The projectile uses a Mechanical or Electronic Time fuze. When the fuze functions, the primary expelling charge ignites forcing the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute then deploys and the

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
ID Code (A=Service Ready, B=Not Service Ready):	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>canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 8 seconds igniting the candle and expelling the main parachute. With the main parachute open, the illumination candle descends at 15 feet per second and burns for 120 seconds producing approximately 1,000,000 candlepower. This item is Code A, approved for service use.</p> <p>(E27603)PROJ, ARTY, 155MM HE IM TRAINING M1122 The 155mm M1122 High Explosive (HE) projectile will be the primary HE round used for training. The M1122 is a lower cost HE training round. The M1122 will replace the M804A1 and M107 Projectiles for training. It utilizes M483A1 DPICM metal parts from an ongoing M483A1 demil effort, is filled with high density concrete to simulate the weight of the M795 HE Projectile, and incorporates several Insensitive Munitions (IM) technologies (IMX-101 explosive fill, PBXN-9 Supplementary Charge, Melttable Fuze Well Liner and Melttable Fuze Plug) to increase survivability and safety. The M1122 will replicate the flight characteristics of the wartime M795 HE projectile with a maximum range of 22.5 kilometers. This item is Code A, approved for service use.</p> <p>(E66800)PROJ, ARTY, 155MM HE, M795 The M795 High Explosive (HE) Projectile is the primary HE round used for warfare operations with maximum range of 22.5 kilometers. The M795 incorporates Insensitive Munitions (IM) technologies that reduces vulnerability from unplanned stimuli e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat. The 155mm M795 has a high fragmentation steel (HF1) body projectile filled with 23.8 pounds of IMX101 Explosive fill, PBXN-9 Supplementary Charge, and Melttable Fuze Plug. The projectile can use several different fuzes (impact, mechanical time, electronic time and short intrusion proximity). It is used for conventional fire support for harassment and interdiction, fragmentation and blast effect. The M795 projectile is employed against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications (C3) installations, and mechanized and armored forces. This item is Code A, approved for service use.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Number / Title:
E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES

ID Code (A=Service Ready, B=Not Service Ready): **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	E21618 / PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3 [DZ09]	P-5a, P-21	A	- / -	6,143 / 9.162	- / -	5,366 / 6.696	- / -	5,366 / 6.696
P-5	E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]	P-5a, P-21	A	- / 278.812	7,899 / 10.710	- / -	7,332 / 11.480	- / -	7,332 / 11.480
P-5	E26904 / PROJ, ARTY, 155MM IR ILLUM M1066 / M1123 [DA56]	P-5a, P-21	A	- / 38.774	9,283 / 11.963	8,334 / 12.600	- / -	- / -	- / -
P-5	E27603 / PROJ, ARTY, 155MM HE IM TRAINING M1122 [DA51]	P-5a, P-21	A	- / 38.063	20,130 / 11.277	70,832 / 40.514	125,062 / 61.839	- / -	125,062 / 61.839
P-5	E66800 / PROJ, ARTY, 155MM HE, M795 [DA54]	P-5a, P-21	A	- / 305.232	13,674 / 20.911	19,689 / 34.881	19,594 / 29.500	22,396 / 30.348	41,990 / 59.848
P-40	Total Gross/Weapon System Cost			- / 660.881	- / 64.023	- / 87.995	- / 109.515	- / 30.348	- / 139.863

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$109.515 million supports production of 157,354 projectiles.
FY 2017 OCO procurement dollars in the amount of \$10.000 million supports production of 6,193 projectiles. Funds are required to replenish munitions expended in combat operations in Operation Freedom's Sentinel (OFS) Afghanistan. The FY 2017 OCO includes \$20.348 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurements include production of 16,203 projectiles.

(E21618)PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3
This item is a training standard item used in both training and combat. FY 2017 Request supports annual training and build a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$6.696 million supports production of 5,366 projectiles.
TYPE CLASSIFICATION DATE: 1972

(E26900)PROJ, ARTY, 155MM VL ILLUM, M485 / M1124
This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$11.480 million supports production of 7,332 projectiles.
TYPE CLASSIFICATION DATE: 1970

(E26904)PROJ, ARTY, 155MM IR ILLUM M1066 / M1123
This item is a training standard item used in both training and combat. Request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
ID Code (A=Service Ready, B=Not Service Ready):	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>TYPE CLASSIFICATION: 2010</p> <p>(E27603)PROJ, ARTY, 155MM HE IM TRAINING M1122 This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$61.839 million supports production of 125,062 projectiles. TYPE CLASSIFICATION DATE: 2010</p> <p>(E66800)PROJ, ARTY, 155MM HE, M795 This is a war reserve item used in combat. FY 2017 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$29.500 million supports production of 19,594 projectiles. FY 2017 OCO procurement dollars in the amount of \$10.000 million supports production of 6,193 projectiles. Funds are required to replenish munitions expended in combat operations in Operation Freedom's Sentinel (OFS) Afghanistan. The FY 2017 OCO includes \$20.348 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurements include production of 16,203 projectiles. TYPE CLASSIFICATION DATE: 1982</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES						Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3 [DZ09]						
ID Code (A=Service Ready, B=Not Service Ready) : A									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)				-		6,143			-			5,366			-		5,366	
Gross/Weapon System Cost (\$ in Millions)				-		9.162			-			6.696			-		6.696	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				-		9.162			-			6.696			-		6.696	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Total Obligation Authority (\$ in Millions)				-		9.162			-			6.696			-		6.696	
<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)				-		1,491.45			-			1,247.86			-		1,247.86	
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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap) ^(†)	-	-	-	528.14	6,143	3.244	-	-	-	412.51	5,366	2.214	-	-	-	412.51	5,366	2.214
SMOKE CANNISTER ASSEMBLY ^(†)	-	-	-	617.33	6,327	3.906	-	-	-	493.85	5,580	2.756	-	-	-	493.85	5,580	2.756
Plug, Lifting, Melttable For Im ^(†)	-	-	-	18.53	6,327	0.117	-	-	-	19.87	5,473	0.109	-	-	-	19.87	5,473	0.109
DOWNLOAD, CLEAN AND INSPECT ^(†)	-	-	-	98.34	7,372	0.725	-	-	-	102.25	6,439	0.658	-	-	-	102.25	6,439	0.658
MODIFIED SUPPLEMENTAL CHARGE, PBXN9 ^(†)	-	-	-	40.00	6,327	0.253	-	-	-	39.56	5,419	0.214	-	-	-	39.56	5,419	0.214
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	8.245	-	-	-	-	-	5.951	-	-	-	-	-	5.951
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	8.245	-	-	-	-	-	5.951	-	-	-	-	-	5.951
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.076	-	-	-	-	-	0.075	-	-	-	-	-	0.075
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.076	-	-	-	-	-	0.075	-	-	-	-	-	0.075
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.841	-	-	-	-	-	0.670	-	-	-	-	-	0.670

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES	Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3 [DZ09]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Production Engineering Cost</i>	-	-	-	-	-	0.841	-	-	-	-	-	0.670	-	-	-	-	-	0.670
Gross/Weapon System Cost	-	-	-	1,491.45	6,143	9.162	-	-	-	1,247.86	5,366	6.696	-	-	-	1,247.86	5,366	6.696

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES				Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3 [DZ09]				

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
Load, Assemble, Pack (Lap) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Aug 2015	Aug 2017	6,143	528.14	Y		
Load, Assemble, Pack (Lap) ^(†)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2019	5,366	412.51	Y		
SMOKE CANNISTER ASSEMBLY		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Aug 2015	Feb 2017	6,327	617.33	Y		
SMOKE CANNISTER ASSEMBLY		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	5,580	493.85	Y		
Plug, Lifting, Melttable For Im		2015	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	6,327	18.53	Y		
Plug, Lifting, Melttable For Im		2017	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	5,473	19.87	Y		
DOWNLOAD, CLEAN AND INSPECT		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Aug 2015	Feb 2016	7,372	98.34	Y		
DOWNLOAD, CLEAN AND INSPECT		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	6,439	102.25	Y		
MODIFIED SUPPLEMENTAL CHARGE, PBXN9		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Aug 2015	Feb 2016	6,327	40.00	Y		
MODIFIED SUPPLEMENTAL CHARGE, PBXN9		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	5,419	39.56	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army																	Date: February 2016												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES										Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3 [DZ09]									

Cost Elements (Units in Each)						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					
Load, Assemble, Pack (Lap)																																			
	1	2015	ARMY	6,143	-	6,143													A	-	-	-	-	-	-	-	-	-	-	-	6,143				
	1	2017	ARMY	5,366	-	5,366																									5,366				

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Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES										Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3 [DZ09]									

Cost Elements <i>(Units in Each)</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	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					
Load, Assemble, Pack (Lap)																																			
	1	2015	ARMY	6,143	-	6,143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	1	2017	ARMY	5,366	-	5,366																													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army																					Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES										Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3 [DZ09]																				
Cost Elements (Units in Each)						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										
Load, Assemble, Pack (Lap)																																								
	1	2015	ARMY	6,143	6,143	-																																		
	1	2017	ARMY	5,366	-	5,366	-	-	-	-	-	-	5,366																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
		Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155MM EXT RANGE SPOTTING RD M110A3 [DZ09]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	5,000	10,000	15,000	6	6	24	30	3	6	24	30

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES	Item Number / Title [DODIC]: E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	7,899	-	7,332	-	7,332
Gross/Weapon System Cost (\$ in Millions)	278.812	10.710	-	11.480	-	11.480
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	278.812	10.710	-	11.480	-	11.480
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	278.812	10.710	-	11.480	-	11.480

(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)	-	1,355.87	-	1,565.74	-	1,565.74

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	278.812	258.84	7,899	2.045	-	-	-	298.86	7,332	2.191	-	-	-	298.86	7,332	2.191
DOWNLOAD, CLEAN AND INSPECT ^(†)	-	-	-	82.43	8,294	0.684	-	-	-	102.25	7,698	0.787	-	-	-	102.25	7,698	0.787
METAL PARTS SETS ^(†)	-	-	-	258.67	7,899	2.043	-	-	-	339.22	7,332	2.487	-	-	-	339.22	7,332	2.487
ILLUM CANNISTER, 155MM ^(†)	-	-	-	312.47	8,057	2.518	-	-	-	-	-	-	-	-	-	-	-	-
VL ILLUM CANNISTER ^(†)	-	-	-	-	-	-	-	-	-	341.30	7,478	2.552	-	-	-	341.30	7,478	2.552
CANISTER MPTS ASSY, 155MM ILLUM ^(†)	-	-	-	49.29	8,057	0.397	-	-	-	60.82	7,478	0.455	-	-	-	60.82	7,478	0.455
CANISTER BASE ASSY, 155MM ILLUM ^(†)	-	-	-	15.54	8,057	0.125	-	-	-	19.03	7,478	0.142	-	-	-	19.03	7,478	0.142
M10 EXPULSION CHARGE ASSEMBLY ^(†)	-	-	-	16.28	8,057	0.131	-	-	-	99.40	7,478	0.743	-	-	-	99.40	7,478	0.743
PARACHUTE MAIN, 155MM ILLUM ^(†)	-	-	-	33.90	8,057	0.273	-	-	-	35.14	7,478	0.263	-	-	-	35.14	7,478	0.263

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES						Item Number / Title [DODIC]: E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]					
ID Code (A=Service Ready, B=Not Service Ready) : A												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)
PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM ^(†)	-	-	-	16.90	8,057	0.136	-	-	-	21.09	7,478	0.158	-	-	-	21.09	7,478	0.158
PARACHUTE MAIN SUPPORTS, 155MM ILLUM ^(†)	-	-	-	3.00	32,228	0.097	-	-	-	3.22	29,914	0.096	-	-	-	3.22	29,914	0.096
DELAY ELEMENT, 155MM ILLUM ^(†)	-	-	-	32.92	8,057	0.265	-	-	-	42.29	7,478	0.316	-	-	-	42.29	7,478	0.316
*WOOD PALLET (HEAT TREATED) ^(†)	-	-	-	86.63	1,027	0.089	-	-	-	-	-	-	-	-	-	-	-	-
WOOD PALLET (HEAT TREATED) ^(†)	-	-	-	-	-	-	-	-	-	93.19	953	0.089	-	-	-	93.19	953	0.089
<i>Subtotal: Recurring Cost</i>	-	-	278.812	-	-	8.803	-	-	-	-	-	10.280	-	-	-	-	-	10.280
<i>Subtotal: Hardware Cost</i>	-	-	278.812	-	-	8.803	-	-	-	-	-	10.280	-	-	-	-	-	10.280
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.067	-	-	-	-	-	0.052	-	-	-	-	-	0.052
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.067	-	-	-	-	-	0.052	-	-	-	-	-	0.052
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-0.089	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	-0.089	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Reliability	-	-	-	-	-	0.851	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	0.851	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.078	-	-	-	-	-	1.149	-	-	-	-	-	1.149
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	1.078	-	-	-	-	-	1.149	-	-	-	-	-	1.149
Gross/Weapon System Cost	-	-	278.812	1,355.87	7,899	10.710	-	-	-	1,565.74	7,332	11.480	-	-	-	1,565.74	7,332	11.480

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES					Item Number / Title [DODIC]: E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	7,899	258.84	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2019	7,332	298.86	Y		
DOWNLOAD, CLEAN AND INSPECT		2015	MCALESTER ARMY AMMUNITION / MCALESTER, OK	PO	PICATINNY ARSENAL, NJ	Jun 2015	Jun 2016	8,294	82.43	Y		
DOWNLOAD, CLEAN AND INSPECT		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jan 2018	7,698	102.25	Y		
METAL PARTS SETS		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	7,899	258.67	Y		
METAL PARTS SETS		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	7,332	339.22	Y		
ILLUM CANNISTER, 155MM		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	8,057	312.47	Y		
VL ILLUM CANNISTER		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Sep 2018	7,478	341.30	Y		
CANISTER MPTS ASSY, 155MM ILLUM		2015	WOODLAWN MANUFACTURING INC / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	8,057	49.29	Y		
CANISTER MPTS ASSY, 155MM ILLUM		2017	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	7,478	60.82	Y		
CANISTER BASE ASSY, 155MM ILLUM		2015	WOODLAWN MANUFACTURING INC / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	8,057	15.54	Y		
CANISTER BASE ASSY, 155MM ILLUM		2017	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	7,478	19.03	Y		
M10 EXPULSION CHARGE ASSEMBLY		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	8,057	16.28	Y		
M10 EXPULSION CHARGE ASSEMBLY		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	7,478	99.40	Y		
PARACHUTE MAIN, 155MM ILLUM		2015	YOLAND CORPORATION / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	8,057	33.90	Y		
PARACHUTE MAIN, 155MM ILLUM		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Jul 2018	7,478	35.14	Y		
PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM		2015	YOLAND CORPORATION / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	8,057	16.90	Y		
PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Jul 2018	7,478	21.09	Y		
PARACHUTE MAIN SUPPORTS, 155MM ILLUM		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	32,228	3.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES					Item Number / Title [DODIC]: E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]				
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
PARACHUTE MAIN SUPPORTS, 155MM ILLUM		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	29,914	3.22	Y		
DELAY ELEMENT, 155MM ILLUM		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	8,057	32.92	Y		
DELAY ELEMENT, 155MM ILLUM		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Jan 2017	Jul 2018	7,478	42.29	Y		
*WOOD PALLET (HEAT TREATED)		2015	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	1,027	86.63			
WOOD PALLET (HEAT TREATED)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Jan 2017	Jul 2018	953	93.19	Y		

(†) indicates the presence of a P-21

Remarks:

Canister Base Assembly: IDIQ contract awarded to multiple contractors. Requirements competed among the following contractors: Woodlawn MFG INC., Marshall, TX and Bailey Tooling and MFG CO., Lancaster, TX. Parachute Main: IDIQ contract awarded to multiple contractors. Requirements competed among the following contractors: Production Products MFG., Buffalo, MO; North American Aerodynamics INC., Roxboro, NC and Yoland Corp INC., Brooklyn, NY. Parachute Drogue Assembly: IDIQ contract awarded to multiple contractors. Requirements will be competed among the following contractors: North American Aerodynamics INC., Roxboro, NC and Yoland Corp INC., Brooklyn, NY.

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Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES										Item Number / Title [DODIC]: E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]									

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	S E P					
LOAD, ASSEMBLE, PACK (LAP)																																			
	1	2015	ARMY	7.899	-	7.899																													7.899
	1	2015	MC (†)	4.493	-	4.493																													4.493
	1	2015	Total	12.392	-	12.392																													12.392
	1	2017	ARMY	7.332	-	7.332																													7.332
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES										Item Number / Title [DODIC]: E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]									

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					
LOAD, ASSEMBLE, PACK (LAP)																																			
	1	2015	ARMY	7.899	-	7.899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	1	2015	MC (†)	4.493	-	4.493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	1	2015	Total	12.392	-	12.392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	1	2017	ARMY	7.332	-	7.332																								7.332					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
Item Number / Title [DODIC]: E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]	

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

LOAD, ASSEMBLE, PACK (LAP)																																
	1	2015	ARMY	7.899	7.899	-																										
	1	2015	MC (†)	4.493	4.493	-																										
	1	2015	Total	12.392	12.392	-																										
	1	2017	ARMY	7.332	-	7.332																										

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Exhibit P-21, Production Schedule: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES				Item Number / Title [DODIC]: E26900 / PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 [DA57]				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	10,000	15,000	20,000	6	6	24	30	4	3	24	27

(‡) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES	Item Number / Title [DODIC]: E26904 / PROJ, ARTY, 155MM IR ILLUM M1066 / M1123 [DA56]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	9,283	8,334	-	-	-
Gross/Weapon System Cost (\$ in Millions)	38.774	11.963	12.600	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	38.774	11.963	12.600	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	38.774	11.963	12.600	-	-	-

(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)	-	1,288.70	1,511.88	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	38.774	258.84	9,283	2.403	295.58	8,334	2.463	-	-	-	-	-	-	-	-	-
DOWNLOAD, CLEAN AND INSPECT ^(†)	-	-	-	82.43	9,747	0.803	100.30	8,751	0.878	-	-	-	-	-	-	-	-	-
METAL PARTS SETS ^(†)	-	-	-	258.29	9,283	2.398	328.94	8,334	2.741	-	-	-	-	-	-	-	-	-
ILLUM CANNISTER, 155MM ^(†)	-	-	-	308.41	9,469	2.920	387.33	8,501	3.293	-	-	-	-	-	-	-	-	-
CANISTER MPTS ASSY, 155MM ILLUM ^(†)	-	-	-	49.29	9,469	0.467	59.66	8,501	0.507	-	-	-	-	-	-	-	-	-
CANISTER BASE ASSY, 155MM ILLUM ^(†)	-	-	-	15.54	9,469	0.147	18.66	8,501	0.159	-	-	-	-	-	-	-	-	-
PARACHUTE MAIN SUPPORTS, 155MM ILLUM ^(†)	-	-	-	3.00	37,875	0.114	3.18	34,003	0.108	-	-	-	-	-	-	-	-	-
PARACHUTE MAIN, 155MM ILLUM ^(†)	-	-	-	33.90	9,469	0.321	47.30	8,501	0.402	-	-	-	-	-	-	-	-	-
PARACHUTE DROGUE	-	-	-	16.90	9,469	0.160	20.69	8,501	0.176	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
		Item Number / Title [DODIC]: E26904 / PROJ, ARTY, 155MM IR ILLUM M1066 / M1123 [DA56]
ID Code (A=Service Ready, B=Not Service Ready) : A		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)
ASSEMBLY, 155MM ILLUM ^(t)																		
*WOOD PALLET (HEAT TREATED) ^(t)	-	-	-	86.63	1,207	0.105	-	-	-	-	-	-	-	-	-	-	-	-
WOOD PALLET (HEAT TREATED) ^(t)	-	-	-	-	-	-	88.36	1,083	0.096	-	-	-	-	-	-	-	-	-
M10 EXPULSION CHARGE ASSEMBLY ^(t)	-	-	-	16.28	9,469	0.154	16.59	8,501	0.141	-	-	-	-	-	-	-	-	-
DELAY ELEMENT, 155MM ILLUM ^(t)	-	-	-	32.92	9,469	0.312	38.28	8,501	0.325	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	38.774	-	-	10.303	-	-	11.289	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	38.774	-	-	10.303	-	-	11.289	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.095	-	-	0.050	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.095	-	-	0.050	-	-	-	-	-	-	-	-	-
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-0.105	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	-0.105	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Reliability	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.169	-	-	1.261	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	1.169	-	-	1.261	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	38.774	1,288.70	9,283	11.963	1,511.88	8,334	12.600	-	-	-	-	-	-	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES					Item Number / Title [DODIC]: E26904 / PROJ, ARTY, 155MM IR ILLUM M1066 / M1123 [DA56]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	9,283	258.84	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Mar 2016	Mar 2018	8,334	295.58	Y		
DOWNLOAD, CLEAN AND INSPECT		2015	MCALESTER ARMY AMMUNITION / MCALESTER, OK	PO	PICATINNY ARSENAL, NJ	Jun 2015	Jun 2016	9,747	82.43	Y		
DOWNLOAD, CLEAN AND INSPECT		2016	TO BE SELECTED / TBS01	PO	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	8,751	100.30	Y		
METAL PARTS SETS		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	9,283	258.29	Y		
METAL PARTS SETS		2016	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2016	Jul 2017	8,334	328.94	Y		
ILLUM CANNISTER, 155MM		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Nov 2016	9,469	308.41	Y		
ILLUM CANNISTER, 155MM		2016	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2016	Sep 2017	8,501	387.33	Y		
CANISTER MPTS ASSY, 155MM ILLUM		2015	WOODLAWN MANUFACTURING INC / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	9,469	49.29	Y		
CANISTER MPTS ASSY, 155MM ILLUM		2016	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Oct 2017	8,501	59.66	Y		
CANISTER BASE ASSY, 155MM ILLUM		2015	WOODLAWN MANUFACTURING INC / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2015	Nov 2016	9,469	15.54	Y		
CANISTER BASE ASSY, 155MM ILLUM		2016	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2016	Oct 2017	8,501	18.66	Y		
PARACHUTE MAIN SUPPORTS, 155MM ILLUM		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	37,875	3.00	Y		
PARACHUTE MAIN SUPPORTS, 155MM ILLUM		2016	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2016	Sep 2017	34,003	3.18	Y		
PARACHUTE MAIN, 155MM ILLUM		2015	YOLAND CORPORATION / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2015	Jul 2016	9,469	33.90	Y		
PARACHUTE MAIN, 155MM ILLUM		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2016	Nov 2017	8,501	47.30	Y		
PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM		2015	YOLAND CORPORATION / BROOKLYN, NY	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2015	Jul 2016	9,469	16.90	Y		
PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	8,501	20.69	Y		
*WOOD PALLET (HEAT TREATED)		2015	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	ROCK ISLAND ARSENAL, IL	Sep 2015	Sep 2015	1,207	86.63			

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES					Item Number / Title [DODIC]: E26904 / PROJ, ARTY, 155MM IR ILLUM M1066 / M1123 [DA56]				
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
WOOD PALLET (HEAT TREATED)		2016	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Jan 2016	Jul 2017	1,083	88.36	Y		
M10 EXPULSION CHARGE ASSEMBLY		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	9,469	16.28	Y		
M10 EXPULSION CHARGE ASSEMBLY		2016	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2016	Jul 2017	8,501	16.59	Y		
DELAY ELEMENT, 155MM ILLUM		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2015	Aug 2016	9,469	32.92	Y		
DELAY ELEMENT, 155MM ILLUM		2016	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Jan 2016	Jul 2017	8,501	38.28	Y		

(†) indicates the presence of a P-21

Remarks:

Canister Base Assembly: IDIQ contract awarded to multiple contractors. Requirements competed among the following contractors: Woodlawn MFG INC., Marshall, TX and Bailey Tooling and MFG CO., Lancaster, TX. Parachute Main: IDIQ contract awarded to multiple contractors. Requirements competed among the following contractors: Production Products MFG., Buffalo, MO; North American Aerodynamics INC., Roxboro, NC and Yoland Corp INC., Brooklyn, NY. Parachute Drogue Assembly: IDIQ contract awarded to multiple contractors. Requirements will be competed among the following contractors: North American Aerodynamics INC., Roxboro, NC and Yoland Corp INC., Brooklyn, NY.

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Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016																											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37														P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES														Item Number / Title [DODIC]: E26904 / PROJ, ARTY, 155MM IR ILLUM M1066 / M1123 [DA56]													

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					
LOAD, ASSEMBLE, PACK (LAP)																																			
1		2015	ARMY	9.283	-	9.283																								9.283					
1		2015	MC (†)	6.551	-	6.551																								6.551					
1		2015	Total	15.834	-	15.834																								15.834					
1		2016	ARMY	8.334	-	8.334																								8.334					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES										Item Number / Title [DODIC]: E26904 / PROJ, ARTY, 155MM IR ILLUM M1066 / M1123 [DA56]									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2017														Fiscal Year 2018														BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LOAD, ASSEMBLE, PACK (LAP)																																			
	1	2015	ARMY	9.283	-	9.283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	1	2015	MC (†)	6.551	-	6.551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	1	2015	Total	15.834	-	15.834	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	1	2016	ARMY	8.334	-	8.334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						

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Exhibit P-21, Production Schedule: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES				Item Number / Title [DODIC]: E26904 / PROJ, ARTY, 155MM IR ILLUM M1066 / M1123 [DA56]				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	10,000	15,000	20,000	6	6	24	30	6	6	24	30

(‡) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
		Item Number / Title [DODIC]: E27603 / PROJ, ARTY, 155MM HE IM TRAINING M1122 [DA51]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	20,130	70,832	125,062	-	125,062
Gross/Weapon System Cost (\$ in Millions)	38.063	11.277	40.514	61.839	-	61.839
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	38.063	11.277	40.514	61.839	-	61.839
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	38.063	11.277	40.514	61.839	-	61.839

(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)	-	560.21	571.97	494.47	-	494.47

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	38.063	240.72	20,130	4.846	385.03	70,832	27.272	332.76	125,062	41.616	-	-	-	332.76	125,062	41.616
EXPLOSIVE FILL IMX-101 ^(†)	-	-	-	16.46	60,390	0.994	22.05	212,496	4.686	16.55	375,186	6.209	-	-	-	16.55	375,186	6.209
PLUG, LIFTING, MELTABLE FOR IM ^(†)	-	-	-	18.53	20,533	0.380	19.49	72,249	1.408	19.87	127,563	2.535	-	-	-	19.87	127,563	2.535
SUPPLEMENTAL CHARGE, PBXNg ^(†)	-	-	-	25.16	20,533	0.517	25.66	72,249	1.854	26.11	127,563	3.331	-	-	-	26.11	127,563	3.331
WOODEN PALLETS, IMX101 ^(†)	-	-	-	105.58	2,617	0.276	91.41	9,208	0.842	93.19	16,258	1.515	-	-	-	93.19	16,258	1.515
<i>Subtotal: Recurring Cost</i>	-	-	38.063	-	-	7.013	-	-	36.062	-	-	55.205	-	-	-	-	-	55.205
<i>Subtotal: Hardware Cost</i>	-	-	38.063	-	-	7.013	-	-	36.062	-	-	55.205	-	-	-	-	-	55.205
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.150	-	-	0.400	-	-	0.650	-	-	-	-	-	0.650
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.150	-	-	0.400	-	-	0.650	-	-	-	-	-	0.650
Support - Product Improvement Cost																		
Reliability	-	-	-	-	-	2.059	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	2.059	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: E27603 / PROJ, ARTY, 155MM HE IM TRAINING M1122 [DA51]		

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)
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	2.055	-	-	4.052	-	-	5.983	-	-	-	-	-	5.983
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	2.055	-	-	4.052	-	-	5.983	-	-	-	-	-	5.983
Gross/Weapon System Cost	-	-	38.063	560.21	20,130	11.277	571.97	70,832	40.514	494.47	125,062	61.839	-	-	-	494.47	125,062	61.839

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES				Item Number / Title [DODIC]: E27603 / PROJ, ARTY, 155MM HE IM TRAINING M1122 [DA51]					

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2015	Mar 2017	20,130	240.72	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	MCLESTER ARMY AMMUNITION / MCLESTER, OK	PO	PICATINNY ARSENAL, NJ	Mar 2016	Mar 2018	70,832	385.03	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2019	62,531	332.76	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	MCLESTER ARMY AMMUNITION / MCLESTER, OK	PO	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2019	62,531	332.76	Y		
EXPLOSIVE FILL IMX-101		2015	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Mar 2016	60,390	16.46	Y		
EXPLOSIVE FILL IMX-101		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	212,496	22.05	Y		
EXPLOSIVE FILL IMX-101		2017	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	375,186	16.55	Y		
PLUG, LIFTING, MELTABLE FOR IM		2015	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	20,533	18.53	Y		
PLUG, LIFTING, MELTABLE FOR IM		2016	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	72,249	19.49	Y		
PLUG, LIFTING, MELTABLE FOR IM		2017	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Sep 2018	127,563	19.87	Y		
SUPPLEMENTAL CHARGE, PBXN9		2015	DAY & ZIMMERMANN LONE STAR / CAMDEN, AR	C / IDIQ	ROCK ISLAND ARSENAL, IL	Nov 2015	May 2016	20,533	25.16	Y		
SUPPLEMENTAL CHARGE, PBXN9		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	72,249	25.66	Y		
SUPPLEMENTAL CHARGE, PBXN9		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	127,563	26.11	Y		
WOODEN PALLETS, IMX101		2015	KNOX CNTY ASSOC RETARDED / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	2,617	105.58	Y		
WOODEN PALLETS, IMX101		2016	KNOX CNTY ASSOC RETARDED / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Sep 2017	9,208	91.41	Y		
WOODEN PALLETS, IMX101		2017	KNOX CNTY ASSOC RETARDED / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	16,258	93.19	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army				Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES				Item Number / Title [DODIC]: E27603 / PROJ, ARTY, 155MM HE IM TRAINING M1122 [DA51]			

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2015												Fiscal Year 2016												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LOAD, ASSEMBLE, PACK (LAP)																															
1		2015	ARMY	20.130	-	20.130																							20.130		
2		2016	ARMY	70.832	-	70.832																							70.832		
1		2017	ARMY	62.531	-	62.531																							62.531		
2		2017	ARMY	62.531	-	62.531																							62.531		

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
		Item Number / Title [DODIC]: E27603 / PROJ, ARTY, 155MM HE IM TRAINING M1122 [DA51]

Cost Elements <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	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		
LOAD, ASSEMBLE, PACK (LAP)																																	
	1	2015	ARMY	20.130	-	20.130	-	-	-	-	-	-	5.000	5.000	5.000	5.130																	-
	2	2016	ARMY	70.832	-	70.832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	35.832	
	1	2017	ARMY	62.531	-	62.531							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62.531		
	2	2017	ARMY	62.531	-	62.531							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62.531		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
		Item Number / Title [DODIC]: E27603 / PROJ, ARTY, 155MM HE IM TRAINING M1122 [DA51]

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2019										Fiscal Year 2020										BALANCE					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G	S E P
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	20.130	20.130	-																							-		
	2	2016	ARMY	70.832	35.000	35.832	5.000	5.000	5.000	10.000	10.832																		-		
	1	2017	ARMY	62.531	-	62.531	-	-	-	-	-	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	7.531	-			
	2	2017	ARMY	62.531	-	62.531	-	-	-	-	-	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	7.531	-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
		Item Number / Title [DODIC]: E27603 / PROJ, ARTY, 155MM HE IM TRAINING M1122 [DA51]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	CRANE ARMY AMMO ACTIVITY - CRANE, IN	1,000	5,000	13,000	6	6	24	30	6	6	24	30
2	MCALESTER ARMY AMMUNITION - MCALESTER, OK	1,000	5,000	13,000	6	12	24	36	6	6	24	30

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
		Item Number / Title [DODIC]: E66800 / PROJ, ARTY, 155MM HE, M795 [DA54]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	13,674	19,689	19,594	22,396	41,990
Gross/Weapon System Cost (\$ in Millions)	305.232	20.911	34.881	29.500	30.348	59.848
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	305.232	20.911	34.881	29.500	30.348	59.848
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	305.232	20.911	34.881	29.500	30.348	59.848

(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)	-	1,529.25	1,771.60	1,505.56	1,355.06	1,425.29

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	305.232	342.18	13,674	4.679	349.01	19,689	6.872	336.44	19,594	6.592	336.44	22,396	7.535	336.44	41,990	14.127
METAL PARTS - M795 ^(†)	-	-	-	507.41	13,948	7.077	495.32	20,083	9.948	402.13	19,986	8.037	402.13	22,844	9.186	402.13	42,830	17.223
PLUG, LIFTING, MELTABLE FOR IM ^(†)	-	-	-	18.53	13,948	0.258	19.49	20,083	0.391	19.87	19,986	0.397	19.87	22,844	0.454	19.87	42,830	0.851
SUPPLEMENTAL CHARGE, PBXNg ^(†)	-	-	-	25.16	13,948	0.351	25.66	20,083	0.515	-	-	-	-	-	-	-	-	-
IMX 104 SUPPLEMENTARY CHARGE ^(†)	-	-	-	-	-	-	-	-	-	26.10	19,986	0.522	26.10	22,844	0.596	26.10	42,830	1.118
WOODEN PALLETS, IMX101 ^(†)	-	-	-	105.58	1,777	0.188	91.41	2,559	0.234	93.19	2,547	0.237	93.19	2,911	0.271	93.19	5,458	0.509
EXPLOSIVE FILL IMX-101 ^(†)	-	-	-	16.46	451,242	7.427	22.05	649,737	14.327	16.55	646,602	10.701	16.55	739,068	12.232	16.55	1,385,670	22.933
<i>Subtotal: Recurring Cost</i>	-	-	305.232	-	-	19.981	-	-	32.287	-	-	26.487	-	-	30.274	-	-	56.761
<i>Subtotal: Hardware Cost</i>	-	-	305.232	-	-	19.981	-	-	32.287	-	-	26.487	-	-	30.274	-	-	56.761
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.083	-	-	0.105	-	-	0.063	-	-	0.072	-	-	0.135

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES	Item Number / Title [DODIC]: E66800 / PROJ, ARTY, 155MM HE, M795 [DA54]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.083	-	-	0.105	-	-	0.063	-	-	0.072	-	-	0.135
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.848	-	-	2.489	-	-	2.951	-	-	0.002	-	-	2.953
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.848	-	-	2.489	-	-	2.951	-	-	0.002	-	-	2.953
Gross/Weapon System Cost	-	-	305.232	1,529.25	13,674	20.911	1,771.60	19,689	34.881	1,505.56	19,594	29.500	1,355.06	22,396	30.348	1,425.29	41,990	59.848

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES				Item Number / Title [DODIC]: E66800 / PROJ, ARTY, 155MM HE, M795 [DA54]				
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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Jan 2016	Feb 2018	13,674	342.18	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2018	19,689	349.01	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2019	41,990	336.44	Y		
METAL PARTS - M795		2015	GENERAL DYNAMICS ORD AND TACT / SCRANTON, PA	C / FFP	PICATINNY ARSENAL, NJ	Aug 2015	Mar 2016	13,948	507.41	Y		
METAL PARTS - M795		2016	GENERAL DYNAMICS ORD AND TACT / SCRANTON, PA	C / FFP	PICATINNY ARSENAL, NJ	Dec 2015	Jun 2017	20,083	495.32	Y		
METAL PARTS - M795		2017	GENERAL DYNAMICS ORD AND TACT / SCRANTON, PA	C / FFP	PICATINNY ARSENAL, NJ	Feb 2017	Aug 2018	42,830	402.13	Y		
PLUG, LIFTING, MELTABLE FOR IM		2015	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Sep 2016	13,948	18.53	Y		
PLUG, LIFTING, MELTABLE FOR IM		2016	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Sep 2017	20,083	19.49	Y		
PLUG, LIFTING, MELTABLE FOR IM		2017	POLYMER TECHNOLOGIES, INC / CLIFTON, NJ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Sep 2018	42,830	19.87	Y		
SUPPLEMENTAL CHARGE, PBXN9		2015	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	13,948	25.16	Y		
SUPPLEMENTAL CHARGE, PBXN9		2016	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	20,083	25.66	Y		
IMX 104 SUPPLEMENTARY CHARGE		2017	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	42,830	26.10	Y		
WOODEN PALLETS, IMX101		2015	KNOX CNTY ASSOC RETARDED / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Sep 2016	1,777	105.58	Y		
WOODEN PALLETS, IMX101		2016	KNOX CNTY ASSOC RETARDED / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Aug 2017	2,559	91.41	Y		
WOODEN PALLETS, IMX101		2017	KNOX CNTY ASSOC RETARDED / VINCENNES, IN	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Aug 2018	5,458	93.19	Y		
EXPLOSIVE FILL IMX-101		2015	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Dec 2016	451,242	16.46	Y		
EXPLOSIVE FILL IMX-101		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2016	Oct 2017	649,737	22.05	Y		
EXPLOSIVE FILL IMX-101		2017	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Feb 2017	Oct 2018	1,385,670	16.55	Y		

^(†) indicates the presence of a P-21

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES	Item Number / Title [DODIC]: E66800 / PROJ, ARTY, 155MM HE, M795 [DA54]

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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES										Item Number / Title [DODIC]: E66800 / PROJ, ARTY, 155MM HE, M795 [DA54]									

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									
LOAD, ASSEMBLE, PACK (LAP)																																							
1		2015	ARMY	13.674	-	13.674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.554	8.120					-		
1		2015	MC (†)	19.446	-	19.446	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.446	-					-		
1		2015	Total	33.120	-	33.120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.000	8.120							-		
1		2016	ARMY	19.689	-	19.689	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.000	4.689	-	-					-	
1		2016	MC (†)	67.907	-	67.907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	20.311	25.000	12.596					-	
1		2016	Total	87.596	-	87.596	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.000	25.000	25.000	12.596					-		
1		2017	ARMY	41.990	-	41.990																																41.990	
1		2017	MC (†)	51.323	-	51.323																																51.323	
1		2017	Total	93.313	-	93.313																																93.313	

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Exhibit P-21, Production Schedule: PB 2017 Army				Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES				Item Number / Title [DODIC]: E66800 / PROJ, ARTY, 155MM HE, M795 [DA54]			

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
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	13.674	13.674	-																								-	
	1	2015	MC †)	19.446	19.446	-																								-	
	1	2015	Total	33.120	33.120	-																								-	
	1	2016	ARMY	19.689	19.689	-																								-	
	1	2016	MC †)	67.907	67.907	-																								-	
	1	2016	Total	87.596	87.596	-																								-	
	1	2017	ARMY	41.990	-	41.990	-	-	-	-	-	10.000	10.000	10.000	11.990															-	
	1	2017	MC †)	51.323	-	51.323	-	-	-	-	-	15.000	15.000	15.000	6.323															-	
	1	2017	Total	93.313	-	93.313	-	-	-	-	-	25.000	25.000	25.000	18.313															-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E89500 / ARTILLERY PROJECTILE, 155MM, ALL TYPES
		Item Number / Title [DODIC]: E66800 / PROJ, ARTY, 155MM HE, M795 [DA54]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	12,000	25,000	35,000	6	6	24	30	6	6	24	30

(±) 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).

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Number / Title: E80100 / Proj 155mm Extended Range M982
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604814A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 366
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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>)	634.509	35.672	65.518	39.200	0.140	39.340	-	-	-	-	-	775.039
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	634.509	35.672	65.518	39.200	0.140	39.340	-	-	-	-	-	775.039
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	634.509	35.672	65.518	39.200	0.140	39.340	-	-	-	-	-	775.039

(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 budget line item includes the Excalibur family of munitions for the use in the M777A2 Lightweight 155mm Howitzer (LW155), the M109A6 Paladin Howitzer, the M109A7 paladin PIM Howitzer and the Swedish Archer Howitzer.

(E80100) Excalibur is a Precision Guided Extended Range 155mm Artillery projectile providing Brigade Combat Teams an organic precision fires capability. Additionally it provides improved fire support capability due to its increased range of 40.5 kilometers and demonstrated accuracy of <3 meters radial miss distances, which enables a first round effect on target reducing the number of rounds required while reducing collateral damage. Excalibur is compatible with the M777A2 Lightweight 155mm Howitzer (LW155), the M109A6 Paladin Howitzer, the M109A7 Paladin PIM Howitzer, and the Swedish Archer Howitzer. Excalibur provides a 35% range increase over current Rocket Assisted Projectiles with a <10 meter circular error probable requirement at all ranges. Excalibur is also highly resistant to Global Positioning System (GPS) jamming. This item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Number / Title:
E80100 / Proj 155mm Extended Range M982

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604814A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** 366

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	E80103 / PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR [DA58]	P-5a, P-21	A	6,148 / 634.509	428 / 35.672	546 / 65.518	372 / 39.200	- / 0.140	372 / 39.340
P-40	Total Gross/Weapon System Cost			- / 634.509	- / 35.672	- / 65.518	- / 39.200	- / 0.140	- / 39.340

*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 accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

(E80100) Excalibur is currently fielded and in use by units throughout Afghanistan and deployed globally to support other Military Contingency Operations. Excalibur is an International Cooperative Development program, teamed with the Kingdom of Sweden (KoS), which contributed resources towards the development in accordance with an established Project Agreement. Excalibur Increment Ia-1 was initially fielded to units in Iraq and Afghanistan in response to an urgent need request in support of Operation Iraqi Freedom (as of September 2010 re-named to Operation New Dawn) and Operation Enduring Freedom. Increment Ia-2 was fielded in early FY 2012 and greatly increases range from 25.2 kilometers to 40.5 kilometers. Excalibur Increment Ib provides further performance improvements while significantly lowering unit costs.

Increment Ib completed a successful Initial Operational Test and Evaluation in February 2014 as well as a Full Rate Production Decision Review in June 2014. The Excalibur Increment Ib projectile was Type Classified and Full Material Released in June 2014.

This is a war reserve item currently being used in combat. The FY 2017 request builds a war reserve inventory in accordance with the Army procurement goals. FY 2017 Base procurement dollars in the amount of \$39.200 million supports the procurement of 372 Increment Ib projectiles.

The FY 2017 OCO includes \$0.140 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E80100 / Proj 155mm Extended Range M982	Item Number / Title [DODIC]: E80103 / PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR [DA58]

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code: 366
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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)	6,148	428	546	372	-	372
Gross/Weapon System Cost (\$ in Millions)	634.509	35.672	65.518	39.200	0.140	39.340
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	634.509	35.672	65.518	39.200	0.140	39.340
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	634.509	35.672	65.518	39.200	0.140	39.340

(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)	103,205.76	83,345.79	119,996.34	105,376.34	-	105,752.69

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	101,022.80	6,148	621.088	68,448.00	428	29.296	68,448.00	546	37.373	68,448.00	372	25.463	-	-	-	68,448.00	372	25.463
CONTAINER, EXCALIBUR	2,183.00	6,148	13.421	2,183.00	428	0.934	2,183.00	546	1.192	2,183.00	372	0.812	-	-	-	2,183.00	372	0.812
<i>Subtotal: Recurring Cost</i>	-	-	634.509	-	-	30.230	-	-	38.565	-	-	26.275	-	-	-	-	-	26.275
Subtotal: Hardware Cost	-	-	634.509	-	-	30.230	-	-	38.565	-	-	26.275	-	-	-	-	-	26.275
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.215	-	-	0.700	-	-	0.350	-	-	-	-	-	0.350
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.215	-	-	0.700	-	-	0.350	-	-	-	-	-	0.350
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	16.800	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	-	-	-	-	-	-	16.800	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Reliability	-	-	-	-	-	-	-	-	3.200	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	-	-	-	3.200	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: E80100 / Proj 155mm Extended Range M982	Item Number / Title [DODIC]: E80103 / PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR [DA58]

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code: 366
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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)
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	4.715	-	-	5.735	-	-	12.085	-	-	0.140	-	-	12.225
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	4.715	-	-	5.735	-	-	12.085	-	-	0.140	-	-	12.225
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.512	-	-	0.518	-	-	0.490	-	-	-	-	-	0.490
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.512	-	-	0.518	-	-	0.490	-	-	-	-	-	0.490
Gross/Weapon System Cost	103,205.76	6,148	634.509	83,345.79	428	35.672	119,996.34	546	65.518	105,376.34	372	39.200	-	-	0.140	105,752.69	372	39.340

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E80100 / Proj 155mm Extended Range M982				Item Number / Title [DODIC]: E80103 / PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR [DA58]				

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
COMPLETE ROUND ^(†)		2015	RAYTHEON MISSILE SYSTEMS CO / TUCSON, AZ	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Jan 2016	428	68,448.00	Y		
COMPLETE ROUND ^(†)		2016	RAYTHEON MISSILE SYSTEMS CO / TUCSON, AZ	C / FFP	PICATINNY ARSENAL, NJ	Nov 2015	Nov 2016	546	68,448.00	Y		
COMPLETE ROUND ^(†)		2017	RAYTHEON MISSILE SYSTEMS CO / TUCSON, AZ	C / FFP	PICATINNY ARSENAL, NJ	Jan 2017	Nov 2017	372	68,448.00	Y		

^(†) indicates the presence of a P-21

Remarks:
FY 2016 and FY 2017 are options of original competitive contract awarded in 2008.

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Exhibit P-21, Production Schedule: PB 2017 Army										Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: E80100 / Proj 155mm Extended Range M982										Item Number / Title [DODIC]: E80103 / PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR [DA58]				

Cost Elements <i>(Units in Each)</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					
COMPLETE ROUND																																			
Prior Years Deliveries: 6148																																			
1		2015	ARMY	428	-	428																								48					
1		2016	ARMY	546	-	546																								546					
1		2017	ARMY	372	-	372																								372					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army												Date: February 2016											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: E80100 / Proj 155mm Extended Range M982						Item Number / Title [DODIC]: E80103 / PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR [DA58]											

Cost Elements <i>(Units in Each)</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
COMPLETE ROUND																															
Prior Years Deliveries: 6148																															
1	2015	ARMY		428	380	48	48																							-	
1	2016	ARMY		546	-	546	-	45	45	45	45	45	45	46	46	46	46	46												-	
1	2017	ARMY		372	-	372				A	-	-	-	-	-	-	-	-	43	43	43	43	40	40	40	40	40		-		
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E80100 / Proj 155mm Extended Range M982
Item Number / Title [DODIC]: E80103 / PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR [DA58]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	RAYTHEON MISSILE SYSTEMS CO - TUCSON, AZ	40	125	250	3	18	12	30	3	4	10	14

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

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

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Number / Title:
E27501 / Artillery Propellants, Fuzes and Primers, All

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

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>)	901.173	83.293	80.024	70.881	29.655	100.536	73.820	84.880	86.740	93.922	-	1,504.388
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	901.173	83.293	80.024	70.881	29.655	100.536	73.820	84.880	86.740	93.922	-	1,504.388
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	901.173	83.293	80.024	70.881	29.655	100.536	73.820	84.880	86.740	93.922	-	1,504.388

(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:

(E27501)Artillery Propellants, Fuzes and Primers, All Types.

(ER8021)ARTY, 155MM PROP CHG, MACS M232 SERIES

The Modular Artillery Charge System (MACS) M232 "High Zone" is intended for use with all United States 155mm cannon field artillery systems. The M232 "High Zone" increment is designed to achieve ranges from 10 to 40 kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Performance enhancing additives are included in the M232 "High Zone" increment. Packaging permits long-term storage and helps protect the items from unplanned stimuli.

This item is Code A, approved for service use

(E62208)ARTY, FUZE PD M739A1

The M739A1 Point Detonating (PD) and Delay Fuze is the Army's preferred, primary fuze for 105mm and 155mm projectiles to address point detonating/delay artillery functions. The M739A1 fuze contains an Impact Delay Module (IDM) assembly. The IDM provides fuze initiation delay based upon the completion of mechanical actions caused by projectile deceleration and will function immediately after passing through the target.

This item is Code A, approved for service use.

(E63000) ARTY, 155MM PRIMER PERCUSSION M82 SERIES

The M82 Percussion Primer is intended for use with all United States 155mm cannon field artillery systems. The M82 Series Percussion Primer is used to initiate the burning of propellant charges and consists of a cylindrical brass case with an extraction flange which contains a base plunger, an ignition element which contains Primer #34 and a container loaded with 22 grains of black powder.

This item is Code A, approved for service use.

(E99250)ARTY, FUZE, PRECISION GUIDANCE KIT (PGK)

The Precision Guidance Kit (PGK) is a Global Positioning System (GPS) guidance kit with point detonating and height of burst fuzing functions. PGK provides near precision accuracy and efficiency for 155mm M795 and M549A1 high explosive (HE) projectiles and compatible with the M777A2 Lightweight 155mm Howitzer (LW155) and the M109A6 Paladin Howitzer. Using an integrated GPS receiver, the PGK corrects the inherent errors associated with ballistic firing solutions and reduces the number of projectiles required to execute fire missions. This item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Number / Title:
E27501 / Artillery Propellants, Fuzes and Primers, All

ID Code (A=Service Ready, B=Not Service Ready): **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	E62208 / ARTY, FUZE PD M739A1 [N340]	P-5a, P-21	A	- / 161.632	360,882 / 28.911	253,873 / 22.700	252,482 / 22.900	140,072 / 11.434	392,554 / 34.334
P-5	E63000 / ARTY, 155MM PRIMER PERCUSSION M82 Series [N523]		A	- / 37.783	- / -	79,498 / 2.000	78,823 / 2.040	- / -	78,823 / 2.040
P-5	E99250 / ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) [NA29]	P-5a, P-21	A	7,578 / 114.200	3,937 / 50.568	4,306 / 55.324	3,839 / 45.941	1,920 / 18.221	5,759 / 64.162
P-5	ER8021 / ARTY, 155MM PROP CHG, MACS M232 SERIES [DA13]		A	- / 587.558	10,500 / 3.814	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 901.173	- / 83.293	- / 80.024	- / 70.881	- / 29.655	- / 100.536

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2017 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$70.881 million supports production of 256,321 fuzes and 78,823 primers.
FY 2017 OCO procurement dollars in the amount of \$23.221 million supports production of 62,555 fuzes. Funds are required to replenish munitions expended in combat operations in Operation Freedom's Sentinel (OFS) Afghanistan. The FY17 OCO includes \$6.434 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurements includes production of 79,437 fuzes.

(E62208)ARTY, FUZE PD M739A1
This is a training standard item used in training and combat. FY 2017 request supports annual training and a builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$22.900 million supports production of 252,482 fuzes. FY 2017 OCO procurement dollars in the amount of \$5.000 million supports production of 60,635 Fuzes. Funds are required to replenish munitions expended in combat operations in Operation Freedom's Sentinel (OFS) Afghanistan. The FY 2017 OCO includes \$6.434 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurements includes production of 79,437 fuzes.

TYPE CLASSIFICATION: 1982

(E63000)ARTY,155MM PRIMER PERCUSSION M82 Series
This is a training standard item used in training and combat. FY 2017 request builds a War Reserve inventory and supports annual traing in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$2.040 million supports production of 66,252 primers.
TYPE CLASSIFICATION DATE: MAY 1961

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All
ID Code (A=Service Ready, B=Not Service Ready):	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>(ER8021)ARTY, 155MM PROP CHG, MACS M232 SERIES This item is a training standard item used in both training and combat. Request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. TYPE CLASSIFICATION DATE: 2001</p> <p>(E99250) ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2017 Base procurement dollars in the amount of \$45.941 million supports the procurement of 3,839 PGK fuzes. The FY 2017 OCO procurement dollars in the amount of \$18.221 million supports production of 1,920 PGK fuzes. Funds are required to replenish munitions expended in combat operations in Operation Freedom's Sentinel (OFS) Afghanistan. TYPE CLASSIFICATION DATE: October 2015</p>		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All
		Item Number / Title [DODIC]: E62208 / ARTY, FUZE PD M739A1 [N340]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	360,882	253,873	252,482	140,072	392,554
Gross/Weapon System Cost (\$ in Millions)	161.632	28.911	22.700	22.900	11.434	34.334
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	161.632	28.911	22.700	22.900	11.434	34.334
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	161.632	28.911	22.700	22.900	11.434	34.334

(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)	-	80.11	89.41	90.70	81.63	87.46

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	161.632	72.48	360,882	26.157	76.21	253,873	19.348	77.69	252,482	19.615	77.69	140,072	10.882	77.69	392,554	30.498
Subtotal: Recurring Cost	-	-	161.632	-	-	26.157	-	-	19.348	-	-	19.615	-	-	10.882	-	-	30.498
Subtotal: Hardware Cost	-	-	161.632	-	-	26.157	-	-	19.348	-	-	19.615	-	-	10.882	-	-	30.498
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	1.025	-	-	1.282	-	-	0.993	-	-	0.552	-	-	1.545
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	1.025	-	-	1.282	-	-	0.993	-	-	0.552	-	-	1.545
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.729	-	-	2.070	-	-	2.292	-	-	-	-	-	2.292
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	1.729	-	-	2.070	-	-	2.292	-	-	-	-	-	2.292
Gross/Weapon System Cost	-	-	161.632	80.11	360,882	28.911	89.41	253,873	22.700	90.70	252,482	22.900	81.63	140,072	11.434	87.46	392,554	34.334

(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E62208 / ARTY, FUZE PD M739A1 [N340]					

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
COMPLETE ROUND ^(†)		2015	ACTION MANUFACTURING COMPANY / BRISTOL, PA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2015	Dec 2017	360,882	72.48	Y		
COMPLETE ROUND ^(†)		2016	ACTION MANUFACTURING COMPANY / BRISTOL, PA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Oct 2018	253,873	76.21	Y		
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Aug 2019	392,554	77.69	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E62208 / ARTY, FUZE PD M739A1 [N340]				

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	S E P			
COMPLETE ROUND																																	
1		2015	ARMY	360.882	-	360.882																							360.882				
1		2015	AFSO (+)	24.916	-	24.916																							24.916				
1		2015	MC (+)	20.003	-	20.003																							20.003				
1		2015	Total	405.801	-	405.801																							405.801				
1		2016	ARMY	253.873	-	253.873																							253.873				
1		2016	AFSO (+)	23.859	-	23.859																							23.859				
1		2016	MC (+)	119.298	-	119.298																							119.298				
1		2016	Total	397.030	-	397.030																							397.030				
2		2017	ARMY	392.554	-	392.554																							392.554				
2		2017	AFSO (+)	11.712	-	11.712																							11.712				
2		2017	Total	404.266	-	404.266																							404.266				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army																		Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E62208 / ARTY, FUZE PD M739A1 [N340]							

Cost Elements (Units in Thousands)					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					
COMPLETE ROUND																																			
1	2015	ARMY	360.882	-	360.882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.801			
1	2015	AFSO (+)	24.916	-	24.916	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1	2015	MC (+)	20.003	-	20.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1	2015	Total	405.801	-	405.801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.801			
1	2016	ARMY	253.873	-	253.873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	253.873			
1	2016	AFSO (+)	23.859	-	23.859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.859		
1	2016	MC (+)	119.298	-	119.298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	119.298		
1	2016	Total	397.030	-	397.030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	397.030			
2	2017	ARMY	392.554	-	392.554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	392.554		
2	2017	AFSO (+)	11.712	-	11.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.712	
2	2017	Total	404.266	-	404.266	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	404.266		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All
		Item Number / Title [DODIC]: E62208 / ARTY, FUZE PD M739A1 [N340]

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		
COMPLETE ROUND																																	
	1	2015	ARMY	360.882	355.081	5.801	5.801																									-	
	1	2015	AFSO (+)	24.916	24.916	-	-																									-	
	1	2015	MC (+)	20.003	20.003	-	-																									-	
	1	2015	Total	405.801	400.000	5.801	5.801																									-	
	1	2016	ARMY	253.873	-	253.873	5.340	20.000	20.000	20.000	20.000	20.000	25.702	40.000	40.000	40.000	2.831															-	
	1	2016	AFSO (+)	23.859	-	23.859	23.859	-	-	-	-	-	-	-	-	-	-															-	
	1	2016	MC (+)	119.298	-	119.298	5.000	20.000	20.000	20.000	20.000	14.298	-	-	-	-	-															-	
	1	2016	Total	397.030	-	397.030	34.199	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	2.831															-	
	2	2017	ARMY	392.554	-	392.554	-	-	-	-	-	-	-	-	-	-	28.288	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	44.266		-	
	2	2017	AFSO (+)	11.712	-	11.712	-	-	-	-	-	-	-	-	-	-	11.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	2	2017	Total	404.266	-	404.266	-	-	-	-	-	-	-	-	-	-	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	44.266			-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All
		Item Number / Title [DODIC]: E62208 / ARTY, FUZE PD M739A1 [N340]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 COMPANY - BRISTOL, PA	20,000	40,000	80,000	6	6	36	42	6	6	36	42
2	TO BE SELECTED - TBS01	20,000	40,000	80,000	6	6	27	33	6	6	24	30

(‡) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E63000 / ARTY, 155MM PRIMER PERCUSSION M82 Series [N523]						
ID Code (A=Service Ready, B=Not Service Ready) : A									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)				-		-			79,498			78,823			-		78,823	
Gross/Weapon System Cost (\$ in Millions)				37.783		-			2.000			2.040			-		2.040	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				37.783		-			2.000			2.040			-		2.040	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Total Obligation Authority (\$ in Millions)				37.783		-			2.000			2.040			-		2.040	
<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)				-		-			25.16			25.88			-		25.88	
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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	37.783	-	-	-	20.34	79,498	1.617	20.75	78,823	1.636	-	-	-	20.75	78,823	1.636
<i>Subtotal: Recurring Cost</i>	-	-	37.783	-	-	-	-	-	1.617	-	-	1.636	-	-	-	-	-	1.636
<i>Subtotal: Hardware Cost</i>	-	-	37.783	-	-	-	-	-	1.617	-	-	1.636	-	-	-	-	-	1.636
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.025	-	-	0.050	-	-	-	-	-	0.050
First Article Test	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.175	-	-	0.050	-	-	-	-	-	0.050
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	0.150
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	0.150
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.208	-	-	0.204	-	-	-	-	-	0.204
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.208	-	-	0.204	-	-	-	-	-	0.204
Gross/Weapon System Cost	-	-	37.783	-	-	-	25.16	79,498	2.000	25.88	78,823	2.040	-	-	-	25.88	78,823	2.040

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All
		Item Number / Title [DODIC]: E99250 / ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) [NA29]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	7,578	3,937	4,306	3,839	1,920	5,759
Gross/Weapon System Cost (\$ in Millions)	114.200	50.568	55.324	45.941	18.221	64.162
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	114.200	50.568	55.324	45.941	18.221	64.162
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	114.200	50.568	55.324	45.941	18.221	64.162

(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)	15,069.94	12,844.30	12,848.12	11,966.92	9,490.10	11,141.17

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	15,069.94	7,578	114.200	8,018.00	3,937	31.567	9,558.00	4,306	41.157	9,267.00	3,839	35.576	9,267.00	1,920	17.793	9,267.00	5,759	53.369
Subtotal: Recurring Cost	-	-	114.200	-	-	31.567	-	-	41.157	-	-	35.576	-	-	17.793	-	-	53.369
Subtotal: Hardware Cost	-	-	114.200	-	-	31.567	-	-	41.157	-	-	35.576	-	-	17.793	-	-	53.369
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	2.460	-	-	2.675	-	-	0.797	-	-	0.428	-	-	1.225
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	2.460	-	-	2.675	-	-	0.797	-	-	0.428	-	-	1.225
Support - Data Cost																		
Technical Publications	-	-	-	-	-	5.283	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Data Cost	-	-	-	-	-	5.283	-	-	-	-	-	-	-	-	-	-	-	-
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	1.989	-	-	2.000	-	-	1.500	-	-	-	-	-	1.500
Subtotal: Support - Engineering Change Proposals Cost	-	-	-	-	-	1.989	-	-	2.000	-	-	1.500	-	-	-	-	-	1.500
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	7.313	-	-	7.292	-	-	6.068	-	-	-	-	-	6.068

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: E99250 / ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) [NA29]		

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: Support - Production Engineering Cost</i>	-	-	-	-	-	7.313	-	-	7.292	-	-	6.068	-	-	-	-	-	6.068
Support - Training Cost																		
Equipment	-	-	-	-	-	1.956	-	-	2.200	-	-	2.000	-	-	-	-	-	2.000
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	1.956	-	-	2.200	-	-	2.000	-	-	-	-	-	2.000
Gross/Weapon System Cost	15,069.94	7,578	114.200	12,844.30	3,937	50.568	12,848.12	4,306	55.324	11,966.92	3,839	45.941	9,490.10	1,920	18.221	11,141.17	5,759	64.162

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E99250 / ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) [NA29]					

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
COMPLETE ROUND ^(†)		2014	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH	SS / FFP	PICATINNY ARSENAL, NJ	Apr 2014	Oct 2015	3,357	8,017.77	Y		
COMPLETE ROUND ^(†)		2015	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH	SS / FFP	PICATINNY ARSENAL, NJ	Feb 2015	Nov 2016	3,937	8,018.00	Y		
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH	SS / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Oct 2017	4,306	9,558.00	Y		
COMPLETE ROUND ^(†)		2017	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH	SS / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Apr 2018	5,759	9,267.00	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army													Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All													Item Number / Title [DODIC]: E99250 / ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) [NA29]												

Cost Elements <i>(Units in Thousands)</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					
COMPLETE ROUND																																			
Prior Years Deliveries: 4221																																			
1	2014	ARMY (I)		3.357	-	3.357																								3.357					
1	2014	FMS (†)(II)		4.083	-	4.083																								4.083					
1	2014	MC (†)(III)		4.665	-	4.665																								4.665					
1	2014	Total		12.105	-	12.105																								12.105					
1	2015	ARMY		3.937	-	3.937																								3.937					
1	2015	MC (†)		.606	-	.606																								.606					
1	2015	Total		4.543	-	4.543																								4.543					
1	2016	ARMY		4.306	-	4.306																								4.306					
1	2016	MC (†)		2.070	-	2.070																								2.070					
1	2016	Total		6.376	-	6.376																								6.376					
1	2017	ARMY		5.759	-	5.759																								5.759					
1	2017	MC (†)		2.517	-	2.517																								2.517					
1	2017	Total		8.276	-	8.276																								8.276					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E99250 / ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) [NA29]									

Cost Elements <i>(Units in Thousands)</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						
COMPLETE ROUND																																				
Prior Years Deliveries: 4221																																				
1	2014	ARMY (I)	3.357	-	3.357	.305	.305	.305	.305	-	-	-	-	-	.306	.609	1.014	.208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1	2014	FMS (†)(II)	4.083	-	4.083	.051	-	.081	-	-	-	-	-	-	-	-	-	-	-	1.014	1.014	1.014	.909	-	-	-	-	-	-	-	-	-	-			
1	2014	MC (†)(III)	4.665	-	4.665	-	-	-	-	.345	.345	.304	.305	.321	.321	-	-	-	-	-	-	.105	1.100	1.100	.419	-	-	-	-	-	-	-	-			
1	2014	Total	12.105	-	12.105	.356	.305	.386	.305	.345	.345	.304	.305	.321	.321	.306	.609	1.014	.208	1.014	1.014	1.014	1.014	1.100	1.100	.419	-	-	-	-	-	-	-			
1	2015	ARMY	3.937	-	3.937	-	-	-	-	-	-	-	-	-	-	-	-	.272	-	-	-	-	-	-	.681	1.085	1.085	.814	-	-	-	-	-	-		
1	2015	MC (†)	.606	-	.606	-	-	-	-	-	-	-	-	-	-	-	-	.606	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1	2015	Total	4.543	-	4.543	-	-	-	-	-	-	-	-	-	-	-	-	.878	-	-	-	-	-	-	.681	1.085	1.085	.814	-	-	-	-	-	-		
1	2016	ARMY	4.306	-	4.306	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.306		
1	2016	MC (†)	2.070	-	2.070	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.070		
1	2016	Total	6.376	-	6.376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.376			
1	2017	ARMY	5.759	-	5.759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.759		
1	2017	MC (†)	2.517	-	2.517	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.517		
1	2017	Total	8.276	-	8.276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.276			

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37		P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All
		Item Number / Title [DODIC]: E99250 / ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) [NA29]

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2018														Fiscal Year 2019												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 7	BAL 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			

COMPLETE ROUND																														
Prior Years Deliveries: 4221																														
1	2014	ARMY (I)	3.357	3.357	-																									-
1	2014	FMS (†)(II)	4.083	4.083	-																									-
1	2014	MC (†)(III)	4.665	4.665	-																									-
1	2014	Total	12.105	12.105	-																									-
1	2015	ARMY	3.937	3.937	-																									-
1	2015	MC (†)	.606	.606	-																									-
1	2015	Total	4.543	4.543	-																									-
1	2016	ARMY	4.306	-	4.306	.717	.717	.718	.718	.718	.718																			-
1	2016	MC (†)	2.070	-	2.070	.346	.346	.345	.345	.344	.344																			-
1	2016	Total	6.376	-	6.376	1.063	1.063	1.063	1.063	1.062	1.062																			-
1	2017	ARMY	5.759	-	5.759	-	-	-	-	-	-	.747	.600	.600	.600	.648	.850	1.100	.614											-
1	2017	MC (†)	2.517	-	2.517	-	-	-	-	-	-	.315	.500	.500	.500	.452	.250	-	-											-
1	2017	Total	8.276	-	8.276	-	-	-	-	-	-	1.062	1.100	1.100	1.100	1.100	1.100	1.100	.614											-
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E99250 / ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) [NA29]				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 TECHSYS ARMAMENT SYS - PLYMOUTH	333	1,100	2,200	13	9	20	29	3	6	13	19

(±) 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).

Service/Agency Suffixes:

- (I)
- (II)
- (III)

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: ER8021 / ARTY, 155MM PROP CHG, MACS M232 SERIES [DA13]									
ID Code (A=Service Ready, B=Not Service Ready) : A									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)				-			10,500			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				587.558			3.814			-			-			-			-		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				587.558			3.814			-			-			-			-		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				587.558			3.814			-			-			-			-		
<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)				-			363.24			-			-			-			-		
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 Cost																					
Recurring Cost																					
LOAD, ASSEMBLE, PACK (LAP)	-	-	587.558	18.54	10,500	0.195	-	-	-	-	-	-	-	-	-	-	-	-			
COMBUSTIBLE CASES - M232A1	-	-	-	35.92	9,984	0.359	-	-	-	-	-	-	-	-	-	-	-	-			
PROPELLANT, M31A2	-	-	-	16.91	71,700	1.212	-	-	-	-	-	-	-	-	-	-	-	-			
*CONTAINER, M232A1	-	-	-	39.39	2,484	0.098	-	-	-	-	-	-	-	-	-	-	-	-			
*IGNITION PROPELLANT, MACS	-	-	-	8.94	800	0.007	-	-	-	-	-	-	-	-	-	-	-	-			
BLACK POWDER	-	-	-	14.75	1,800	0.027	-	-	-	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Recurring Cost</i>	-	-	<i>587.558</i>	-	-	<i>1.897</i>	-	-	-	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Hardware Cost</i>	-	-	<i>587.558</i>	-	-	<i>1.897</i>	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Acceptance Testing Cost																					
Acceptance Test	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	<i>0.200</i>	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Government Furnished Materials Cost																					
Government Furnished Materials	-	-	-	-	-	-0.105	-	-	-	-	-	-	-	-	-	-	-	-			

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: ER8021 / ARTY, 155MM PROP CHG, MACS M232 SERIES [DA13]					
ID Code (A=Service Ready, B=Not Service Ready) : A												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: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	-0.105	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.822	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	1.822	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	587.558	363.24	10,500	3.814	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 43: Mines **P-1 Line Item Number / Title:** EA0800 / Mines & Clearing Charges, All Types

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

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>)	5,078	-	-	-	1,525	1,525	-	-	-	-	-	6,603
Gross/Weapon System Cost (<i>\$ in Millions</i>)	56.475	-	-	-	16.866	16.866	-	-	-	-	-	73.341
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	56.475	-	-	-	16.866	16.866	-	-	-	-	-	73.341
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	56.475	-	-	-	16.866	16.866	-	-	-	-	-	73.341

(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>)	11,121.50	-	-	-	11,059.67	11,059.67	-	-	-	-	-	11,107.22

Description:

This budget line includes Mines and Mine Clearing Charges, All Types.

E72800 MK7Mod2 The Anti-Personnel Obstacle Breaching System (APOBS) is used by dismounted troops in combat operations to clear a lane through wire obstacles and anti-personnel mines. This item is a lightweight, self-contained, 1 shot expendable system that is transported and deployed by a 2 man team. It consists of a line charge/fuze assembly and a rocket motor assembly. APOBS uses the EX126 Mod 0 rocket motor to propel a line charge over the obstacle. The line is then exploded, clearing a lane. The APOBS System is being actively used in Combat Engineering Operations. This item is Code A, approved for service use.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 43: Mines **P-1 Line Item Number / Title:** EA0800 / Mines & Clearing Charges, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E72800 / ANTI-PERS OBSTACLE BREACHNG SYS(APOBS), MK7 w/ MODS [MN79]	P-5a, P-21	A	5,078 / 56.475	- / -	- / -	- / -	1,525 / 16.866	1,525 / 16.866
P-40	Total Gross/Weapon System Cost			5,078 / 56.475	- / -	- / -	- / -	1,525 / 16.866	1,525 / 16.866

*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 OCO includes \$16.866 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiative. The procurement includes 1,525 APOBS.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43	P-1 Line Item Number / Title: EA0800 / Mines & Clearing Charges, All Types	Item Number / Title [DODIC]: E72800 / ANTI-PERS OBSTACLE BREACHNG SYS(APOBS), MK7 w/ MODS [MN79]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	5,078	-	-	-	1,525	1,525
Gross/Weapon System Cost (\$ in Millions)	56.475	-	-	-	16.866	16.866
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	56.475	-	-	-	16.866	16.866
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	56.475	-	-	-	16.866	16.866

(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)	11,121.50	-	-	-	11,059.67	11,059.67

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 Cost																		
Recurring Cost																		
Complete Round ^(t)	-	-	56.475	-	-	-	-	-	-	-	-	-	10,662.37	1,525	16.260	10,662.37	1,525	16.260
Subtotal: Recurring Cost	-	-	56.475	-	-	-	-	-	-	-	-	-	-	-	16.260	-	-	16.260
Subtotal: Hardware Cost	-	-	56.475	-	-	-	-	-	-	-	-	-	-	-	16.260	-	-	16.260
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.606	-	-	0.606
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.606	-	-	0.606
Gross/Weapon System Cost	11,121.50	5,078	56.475	-	-	-	-	-	-	-	-	-	11,059.67	1,525	16.866	11,059.67	1,525	16.866

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43			P-1 Line Item Number / Title: EA0800 / Mines & Clearing Charges, All Types				Item Number / Title [DODIC]: E72800 / ANTI-PERS OBSTACLE BREACHNG SYS(APOBS), MK7 w/ MODS [MN79]				

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
Complete Round ^(†)	✓	2017	TO BE SELECTED / TBS01	C / FFP	Rock Island, IL	May 2017	May 2019	1,525	10,662.37	Y		

^(†) indicates the presence of a P-21

Remarks:
New contract in FY 2017.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: EA0800 / Mines & Clearing Charges, All Types										Item Number / Title [DODIC]: E72800 / ANTI-PERS OBSTACLE BREACHNG SYS(APOBS), MK7 w/ MODS [MN79]									

Cost Elements <i>(Units in Each)</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

Complete Round																																
✓	1	2017	ARMY	1,525	-	1,525								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,525

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43		P-1 Line Item Number / Title: EA0800 / Mines & Clearing Charges, All Types
		Item Number / Title [DODIC]: E72800 / ANTI-PERS OBSTACLE BREACHNG SYS(APOBS), MK7 w/ MODS [MN79]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	50	130	300	8	8	24	32	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).

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 44: Networked Munitions	P-1 Line Item Number / Title: E95900 / Spider Network Munitions, 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: 0604808A
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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>)	345.458	-	-	-	10.353	10.353	-	-	-	-	-	355.811
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	345.458	-	-	-	10.353	10.353	-	-	-	-	-	355.811
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	345.458	-	-	-	10.353	10.353	-	-	-	-	-	355.811

(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 budget line includes Anti-Personnel Landmine Alternatives (APLA), All Types.

E91700 Spider is a hand emplaced, remotely controlled, anti-personnel munition system that was designed to replace the capability of the persistent anti-personnel landmines banned from use after December 2010 per US Landmine policy. Spider, as a Man-in-the-Loop system, offers numerous capabilities for asymmetric warfare focusing on small unit force protection. The system is made up of 4 subsystems: Man-in-the-Loop (the human operator), Remote Control Station (RCS), the system command and control station, Repeater (a communication link to the munitions that provides extended range), and Munition Control Units (MCU) delivers anti-personnel effects. The Spider is designed to mitigate the indiscriminate initiation of the lethal mechanism. A Soldier/Marine makes a conscious decision to engage a target with the lethal mechanism. Spider's sensor capabilities and controlled munitions provide needed force protection and battlefield shaping. Spider allows measured and graduated responses including sense only, non lethal, and lethal modes. Spider also supports net-centric operations by feeding situational awareness information (location and status) into the Battle Command system. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. This item is Code A, approved for service use. Type Classification Standard and Full Materiel Release were achieved in July and September 2013 respectively.

E91741 - The MCUs are munitions strategically placed to provide the barrier capability of an obstacle. The baseline MCU employs up to six (6) replaceable Miniature Grenade Launchers (MGLs) or up to six (6) Munition Aadopter Modules (MAMs), and a replaceable Extended Range Tripline Sensor (ERTS) module with six (6) triplines.

E91711 - The Miniature-Grenade Launcher (MGL) consists of a grenade assembly composed of a high explosive fragmenting warhead that provides lethal effects when launched from a Spider MCU.

E91721 - The Extended Range Tripline Sensor (ERTS) module enables the remote deployment of six (6) triplines. The ERTS provides a silent (from enemy perspective) intrusion detection capability alerting the RCS operator of the enemy presence in the munition field. When deployed, the triplines travel 10 to 12 meters along an axis (depending on wind speed and direction) corresponding to the six launch azimuths of the grenades providing approximately 20 to 24 meters of ERTS tripline diameter coverage. The ERTS do not have to be deployed or installed until the tactical scenario calls for their deployment.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 44: Networked Munitions

P-1 Line Item Number / Title:
E95900 / Spider Network 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:** 0604808A

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	E91711 / MINI GRENADE LAUNCHER (MGL)			- / -	- / -	- / -	- / -	- / 4.671	- / 4.671
P-5	E91721 / EXTENDED RANGE TRIPWIRE SENSOR (ERTS)		B	- / -	- / -	- / -	- / -	- / 1.872	- / 1.872
P-5	E91741 / MUNITION CONTROL UNIT (MCU) TACTICAL		B	- / -	- / -	- / -	- / -	- / 3.810	- / 3.810
P-40	Total Gross/Weapon System Cost			- / 345.458	- / -	- / -	- / -	- / 10.353	- / 10.353

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

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

Justification:

This is a training standard item used in both training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army procurement goals.

FY 20117 OCO includes \$10.353 million to support COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 44	P-1 Line Item Number / Title: E95900 / Spider Network Munitions, All Types	Item Number / Title [DODIC]: E91711 / MINI GRENADE LAUNCHER (MGL)

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 (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	4.671	4.671
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	4.671	4.671
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	4.671	4.671

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

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

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

Cost Elements	Prior Years			FY 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)
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.671	-	-	4.671
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.671	-	-	4.671
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.671	-	-	4.671

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 44	P-1 Line Item Number / Title: E95900 / Spider Network Munitions, All Types	Item Number / Title [DODIC]: E91721 / EXTENDED RANGE TRIPWIRE SENSOR (ERTS)

ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)		-	-	-	-	1.872	1.872
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		-	-	-	-	1.872	1.872
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		-	-	-	-	1.872	1.872
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)		-	-	-	-	-	-

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

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)
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.872	-	-	1.872
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.872	-	-	1.872
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.872	-	-	1.872

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 44	P-1 Line Item Number / Title: E95900 / Spider Network Munitions, All Types	Item Number / Title [DODIC]: E91741 / MUNITION CONTROL UNIT (MCU) TACTICAL

ID Code (A=Service Ready, B=Not Service Ready) : B	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)	-	-	-	-	3.810	3.810
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	-	3.810	3.810
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	-	3.810	3.810

(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)
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.810	-	-	3.810
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.810	-	-	3.810
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.810	-	-	3.810

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets **P-1 Line Item Number / Title:** EA4000 / Shoulder Launched Munitions, All Types

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

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>)	385.700	0.945	7.500	38.000	63.210	101.210	5.000	3.000	3.000	3.000	-	509.355
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	385.700	0.945	7.500	38.000	63.210	101.210	5.000	3.000	3.000	3.000	-	509.355
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	385.700	0.945	7.500	38.000	63.210	101.210	5.000	3.000	3.000	3.000	-	509.355

(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 budget line includes Shoulder Launched Munitions, All Types.

(E36101) Launcher and Cartridge 84MM M136A1 (AT4CS-RS) - The AT4 is the Army's primary shoulder launched, lightweight, anti-armor weapon. The AT4-Confined Space (CS) weapon is a safety enhanced version of the M136 AT4 Weapon. The AT4-CS is a self-contained weapon consisting of a free-flight, fin-stabilized, rocket packed in an expendable, 1-piece launch tube. The recoilless design permits accurate delivery of the 84mm high explosive Anti-Armor warhead out to 250 meters. The AT4-CS incorporates a safety modification to the propulsion system that significantly reduces the weapon's back blast and launch signature. This will allow the user to safely fire the weapon from a protected area or enclosed space during close combat operations. This item is Code A, approved for service use.

(E36401) Charge, Backblast Sim, F/SUBCAL ADPTR553B CARLGUST - The 7.62MM 553B Sub-Caliber Backblast Simulator is a charge which produces a real-feel backblast for user. This item is Code A, approved for service use.

(E36402) Cap, Percussion, W/HLDR, F/SUBCAL ADPTR553B CARLGUST - The 7.62MM 553B Sub-Caliber Cap with Holder maintains the position of the individual components of the 553B Sub-Caliber Adapter System. This item is Code A, approved for service use.

(E36403) CTG, 7.62MM Tracer, F/SUBCAL ADPTR CARL GUSTAF - The 7.62MM 553B Sub-Caliber Adapter makes it possible to raise the level of proficiency and reduce training costs to a low level both at the firing range and during live firing exercises. This item is Code A, approved for service use.

(E36404) CTG, Gun, HEDP 502, 84MM CARL GUSTAF (MAAWS) - For rapid response forces that must have the ability to combat many types of threat, the 84 mm HEDP 502 (High Explosive Dual Purpose) is effective against light-armored vehicles, concrete and brick walls, field fortifications, and bunkers. This item is Code A, approved for service use.

(E36405) CTG, Gun, HE 441D, 84MM CARL GUSTAF (MAAWS) - For combating troops in the open, behind cover, or in slit trenches as well as soft-skinned vehicles and similar types of targets, the 84MM HE 441D (High Explosive) can be set for impact or air burst detonation. This item is Code A, approved for service use.

(E36406) CTG, Gun, TGT PRAC-TR 141, 84MM CARL GUSTAF (MAAWS) - The 84MM TPT 141 (Training Practice Tracer) is the ideal training round for reducing training costs but still retaining the right weapon "feel" and live firing experience. This item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets		P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E36901) ROCKET, PRACTICE, 21MM SUBCALIBER for Shoulder Launched Munitions (SLM) simulates the firing of unguided shoulder fired munitions. It simulates the tactical munitions flight trajectory, but with less noise and backblast. It is currently used by Navy and Marine Corps to simulate the M72 LAW. It has also been adapted to the M141 Bunker Defeat Munition (BDM) and is used in New Equipment Training (NET)/Mobile Training Teams (MTT). This item is Code A, approved for service use.</p> <p>(E88401) The Bunker Defeat Munition (BDM) is a single-shot, disposable, shoulder launched rocket propelled munition used to defeat earth and timber field fortifications (bunkers) out to 250 meters. The system also defeats lightly armored vehicles and breaches masonry walls using its 83 millimeter high explosive, dual-purpose rocket. The item is Code A, approved for service use.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets **P-1 Line Item Number / Title:** EA4000 / Shoulder Launched Munitions, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E36101 / AT4-Confined Space (AT4-CS), M136A1 [CA30]	P-5a, P-21	A	- / 129.076	- / -	- / -	5,597 / 27.000	4,174 / 17.784	9,771 / 44.784
P-5	E36401 / CHARGE, BACKBLAST SIM, F/SUBCAL ADPTR553B CARLGUST [L612]		A	- / -	- / -	150,235 / 1.000	- / -	- / -	- / -
P-5	E36402 / CAP, PERCUSSION W/HLDR F/SUBCAL ADPTR553B CARLGUST [L498]		A	- / -	- / -	1,211,271 / 1.000	- / -	- / -	- / -
P-5	E36403 / CTG, 7.62MM TRACER 553 F/SUBCAL ADAPTR CARL GUSTAF [A254]		A	- / -	- / -	379,215 / 1.000	- / -	- / -	- / -
P-5	E36404 / CTG, GUN, HEDP 502, 84MM CARL GUSTAF (MAAWS) [CA21]		A	- / -	- / -	497 / 1.500	834 / 3.000	- / -	834 / 3.000
P-5	E36405 / CTG, GUN, HE 441D, 84MM CARL GUSTAF (MAAWS) [CA27]		A	- / -	- / -	545 / 1.500	834 / 3.000	- / -	834 / 3.000
P-5	E36406 / CTG, GUN, TGT PRAC-TR 141, 84MM CARL GUSTAF(MAAWS) [CA10]		A	- / -	- / -	1,987 / 1.500	6,233 / 3.000	- / -	6,233 / 3.000
P-5	E36901 / ROCKET, PRACTICE, 21MM SUBCALIBER FOR SLM [HA21]		A	- / 5.725	6,293 / 0.945	- / -	19,005 / 2.000	- / -	19,005 / 2.000
P-5	E88401 / BUNKER DEFEAT MUNITION, 83mm Rkt & Launcher, M141 [HA08]	P-5a, P-21	A	22,531 / 250.899	- / -	- / -	- / -	2,041 / 45.426	2,041 / 45.426
P-40	Total Gross/Weapon System Cost			- / 385.700	- / 0.945	- / 7.500	- / 38.000	- / 63.210	- / 101.210

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$101.210 million supports procurement of six variants of Shoulder Launched Munitions.

The FY 2017 OCO includes \$45.426 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiatives. The FY 2017 includes 1 variant of Shoulder Launched Munition.

(E36101) Launcher and Cartridge 84MM M136A1 (AT4CS-RS) - This is a training unique item not used in combat. The FY 2017 request supports annual training and builds a depot level in accordance with the Army's procurement goal. FY2017 Base procurement dollars in the amount of \$27.000 million supports the procurement of 5,597 rounds. "The FY17 OCO includes \$17.784 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiative. The procurements include 4,174 Launcher and Cartridge 84MM M136A1 (AT4CS-RS)".

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets		P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E36401) CHG, Backblast Sim, F/Subcal ADPTR553B Carl Gustaf - This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goal.</p> <p>(E36402) Cap, Percussion W/HLDR F/Subcal ADPTR553B Carl Gustaf - This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goal.</p> <p>(E36403) CTG, 7.62MM Tracer 553 F/Subcal ADPTR Carl Gustaf - This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goal.</p> <p>(E36404) CTG, Gun, HEDP 502, 84MM CARL GUSTAF (MAAWS) - This is a training standard (item used in both training and combat. FY 2017 Base procurement dollars in the amount of \$3.000 million supports the procurement of 834 Rounds.</p> <p>(E36405) CTG, Gun, HE 441D, 84MM CARL GUSTAF (MAAWS) - This is a training standard used in both training and combat. FY 2017 Base procurement dollars in the amount of \$3.000 million supports the procurement of 834 Rounds.</p> <p>(E36406) CTG, Gun, TGT PRAC-TR 141, 84MM CARL GUSTAF (MAAWS) - This is a training standard used in both training and combat. FY 2017 Base procurement dollars in the amount of \$3.000 million supports the procurement of 6,233 Rounds.</p> <p>(E36901) ROCKET, PRACTICE, 21MM SUBCALIBER for Shoulder Launched Munitions (SLM) - This is a training unique item not used in combat. FY 2017 Base procurement dollars in the amount of \$2.000 million supports the procurement of 19,005 Rounds.</p> <p>(E88401) BUNKER DEFEAT MUNITION, 83mm Rkt & Launcher, M141 - This is a training standard item used in both training and combat. FY2017 Base procurement dollars in the amount of \$45.426 million supports the procurement of 2,041 Rounds. The FY 2017 OCO includes \$45.426 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiative. The procurements include (2,041 BUNKER DEFEAT MUNITION, 83mm Rkt & Launcher, M141).</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E36101 / AT4-Confined Space (AT4-CS), M136A1 [CA30]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	-	-	-	5,597	4,174	9,771
Gross/Weapon System Cost (<i>\$ in Millions</i>)	129.076	-	-	27.000	17.784	44.784
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	129.076	-	-	27.000	17.784	44.784
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	129.076	-	-	27.000	17.784	44.784

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	4,824.01	4,260.66	4,583.36

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	129.076	-	-	-	-	-	-	4,260.16	5,597	23.844	4,260.16	4,174	17.782	4,260.16	9,771	41.626
<i>Subtotal: Recurring Cost</i>	-	-	129.076	-	-	-	-	-	-	-	-	23.844	-	-	17.782	-	-	41.626
<i>Subtotal: Hardware Cost</i>	-	-	129.076	-	-	-	-	-	-	-	-	23.844	-	-	17.782	-	-	41.626
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	3.156	-	-	0.002	-	-	3.158
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.156	-	-	0.002	-	-	3.158
Gross/Weapon System Cost	-	-	129.076	-	-	-	-	-	-	4,824.01	5,597	27.000	4,260.66	4,174	17.784	4,583.36	9,771	44.784

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45			P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types				Item Number / Title [DODIC]: E36101 / AT4-Confined Space (AT4-CS), M136A1 [CA30]					
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
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	SS / FFP	PICATINNY ARSENAL, NJ	May 2017	May 2019	9,771	4,260.16	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army																				Date: February 2016											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types										Item Number / Title [DODIC]: E36101 / AT4-Confined Space (AT4-CS), M136A1 [CA30]											
Cost Elements <i>(Units in Each)</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	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
COMPLETE ROUND																															
1	2017	ARMY		9,771	-	9,771								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,771
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types										Item Number / Title [DODIC]: E36101 / AT4-Confined Space (AT4-CS), M136A1 [CA30]									

Cost Elements <i>(Units in Each)</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

COMPLETE ROUND																																				
1	2017	ARMY		9,771	-	9,771	-	-	-	-	-	-	-	4,885	4,886																					-

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45		P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types
		Item Number / Title [DODIC]: E36101 / AT4-Confined Space (AT4-CS), M136A1 [CA30]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	500	5,000	7,000	8	8	24	32	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-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E36401 / CHARGE, BACKBLAST SIM, F/SUBCAL ADPTR553B CARLGUST [L612]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	150,235	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	1.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	1.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	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)	-	-	6.66	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	5.57	150,235	0.837	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.837	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	0.837	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.163	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	0.163	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	6.66	150,235	1.000	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E36402 / CAP, PERCUSSION W/HLDR F/SUBCAL ADPTR553B CARLGUST [L498]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	1,211,271	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	1.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	1.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	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)	-	-	0.83	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	0.69	1,211,271	0.836	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.836	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	0.836	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.164	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.164	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	0.83	1,211,271	1.000	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E36403 / CTG, 7.62MM TRACER 553 F/SUBCAL ADAPTR CARL GUSTAF [A254]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	379,215	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	1.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	1.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	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)	-	-	2.64	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	2.21	379,215	0.838	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.838	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	0.838	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.162	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	0.162	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	2.64	379,215	1.000	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45		P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types
		Item Number / Title [DODIC]: E36404 / CTG, GUN, HEDP 502, 84MM CARL GUSTAF (MAAWS) [CA21]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	497	834	-	834
Gross/Weapon System Cost (\$ in Millions)	-	-	1.500	3.000	-	3.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	1.500	3.000	-	3.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	1.500	3.000	-	3.000

(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)	-	-	3,018.11	3,597.12	-	3,597.12

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	2,363.35	497	1.175	2,801.00	834	2.336	-	-	-	2,801.00	834	2.336
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>1.175</i>	-	-	<i>2.336</i>	-	-	-	-	-	<i>2.336</i>
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	1.175	-	-	2.336	-	-	-	-	-	2.336
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.081	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	<i>0.081</i>	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.244	-	-	0.664	-	-	-	-	-	0.664
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	<i>0.244</i>	-	-	<i>0.664</i>	-	-	-	-	-	<i>0.664</i>
Gross/Weapon System Cost	-	-	-	-	-	-	3,018.11	497	1.500	3,597.12	834	3.000	-	-	-	3,597.12	834	3.000

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E36405 / CTG, GUN, HE 441D, 84MM CARL GUSTAF (MAAWS) [CA27]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	-	-	545	834	-	834
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	1.500	3.000	-	3.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	1.500	3.000	-	3.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	1.500	3.000	-	3.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	2,752.29	3,597.12	-	3,597.12

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	2,143.49	545	1.168	2,801.00	834	2.336	-	-	-	2,801.00	834	2.336
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>1.168</i>	-	-	<i>2.336</i>	-	-	-	-	-	<i>2.336</i>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<i>1.168</i>	-	-	<i>2.336</i>	-	-	-	-	-	<i>2.336</i>
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.087	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	<i>0.087</i>	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.245	-	-	0.664	-	-	-	-	-	0.664
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	<i>0.245</i>	-	-	<i>0.664</i>	-	-	-	-	-	<i>0.664</i>
Gross/Weapon System Cost	-	-	-	-	-	-	2,752.29	545	1.500	3,597.12	834	3.000	-	-	-	3,597.12	834	3.000

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E36406 / CTG, GUN, TGT PRAC-TR 141, 84MM CARL GUSTAF(MAAWS) [CA10]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	1,987	6,233	-	6,233
Gross/Weapon System Cost (\$ in Millions)	-	-	1.500	3.000	-	3.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	1.500	3.000	-	3.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	1.500	3.000	-	3.000

(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)	-	-	754.91	481.31	-	481.31

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	574.43	1,987	1.141	375.00	6,233	2.337	-	-	-	375.00	6,233	2.337
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>1.141</i>	-	-	<i>2.337</i>	-	-	-	-	-	<i>2.337</i>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<i>1.141</i>	-	-	<i>2.337</i>	-	-	-	-	-	<i>2.337</i>
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.033	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	<i>0.033</i>	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.326	-	-	0.663	-	-	-	-	-	0.663
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	<i>0.326</i>	-	-	<i>0.663</i>	-	-	-	-	-	<i>0.663</i>
Gross/Weapon System Cost	-	-	-	-	-	-	754.91	1,987	1.500	481.31	6,233	3.000	-	-	-	481.31	6,233	3.000

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E36901 / ROCKET, PRACTICE, 21MM SUBCALIBER FOR SLM [HA21]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	-	6,293	-	19,005	-	19,005
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.725	0.945	-	2.000	-	2.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5.725	0.945	-	2.000	-	2.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.725	0.945	-	2.000	-	2.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	150.17	-	105.24	-	105.24

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 Cost																		
Recurring Cost																		
Complete Round	-	-	5.725	93.61	6,293	0.589	-	-	-	89.45	19,005	1.700	-	-	-	89.45	19,005	1.700
<i>Subtotal: Recurring Cost</i>	-	-	5.725	-	-	0.589	-	-	-	-	-	1.700	-	-	-	-	-	1.700
<i>Subtotal: Hardware Cost</i>	-	-	5.725	-	-	0.589	-	-	-	-	-	1.700	-	-	-	-	-	1.700
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.356	-	-	-	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.356	-	-	-	-	-	0.300	-	-	-	-	-	0.300
Gross/Weapon System Cost	-	-	5.725	150.17	6,293	0.945	-	-	-	105.24	19,005	2.000	-	-	-	105.24	19,005	2.000

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E88401 / BUNKER DEFEAT MUNITION, 83mm Rkt & Launcher, M141 [HA08]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	22,531	-	-	-	2,041	2,041
Gross/Weapon System Cost (\$ in Millions)	250.899	-	-	-	45.426	45.426
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	250.899	-	-	-	45.426	45.426
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	250.899	-	-	-	45.426	45.426

(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)	11,135.72	-	-	-	22,256.74	22,256.74

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 Cost																		
Recurring Cost																		
BUNKER DEFEAT MUNITION (BDM) ^(†)	18,001.05	13,938	250.899	-	-	-	-	-	-	-	-	-	21,583.29	2,041	44.051	21,583.29	2,041	44.051
<i>Subtotal: Recurring Cost</i>	-	-	250.899	-	-	-	-	-	-	-	-	-	-	-	44.051	-	-	44.051
<i>Subtotal: Hardware Cost</i>	-	-	250.899	-	-	-	-	-	-	-	-	-	-	-	44.051	-	-	44.051
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.374	-	-	1.374
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.374	-	-	1.374
Gross/Weapon System Cost	11,135.72	22,531	250.899	-	-	-	-	-	-	-	-	-	22,256.74	2,041	45.426	22,256.74	2,041	45.426

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45			P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types				Item Number / Title [DODIC]: E88401 / BUNKER DEFEAT MUNITION, 83mm Rkt & Launcher, M141 [HA08]					

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
BUNKER DEFEAT MUNITION (BDM) ^(†)	✓	2017	TO BE SELECTED / TBS01	C / FFP	OTHER	May 2017	Nov 2018	2,041	21,583.29	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army																							Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types													Item Number / Title [DODIC]: E88401 / BUNKER DEFEAT MUNITION, 83mm Rkt & Launcher, M141 [HA08]															
Cost Elements <i>(Units in Each)</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								
BUNKER DEFEAT MUNITION (BDM)																																						
Prior Years Deliveries: 13938																																						
✓	1	2017	ARMY	2,041	-	2,041								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,041

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45								P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types								Item Number / Title [DODIC]: E88401 / BUNKER DEFEAT MUNITION, 83mm Rkt & Launcher, M141 [HA08]											

Cost Elements (Units in Each)						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
BUNKER DEFEAT MUNITION (BDM)																															
Prior Years Deliveries: 13938																															
✓	1	2017	ARMY	2,041	-	2,041	-	700	700	641																					

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45		P-1 Line Item Number / Title: EA4000 / Shoulder Launched Munitions, All Types
		Item Number / Title [DODIC]: E88401 / BUNKER DEFEAT MUNITION, 83mm Rkt & Launcher, M141 [HA08]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	100	700	1,400	8	8	18	26	6	6	15	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 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets **P-1 Line Item Number / Title:** E37300 / Rocket, Hydra 70, 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

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>)	94,712	80,210	125,763	55,760	18,419	74,179	110,182	24,030	20,621	716	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	430.647	94.191	169.993	87.213	42.851	130.064	162.643	59.171	72.206	50.100	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	430.647	94.191	169.993	87.213	42.851	130.064	162.643	59.171	72.206	50.100	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	430.647	94.191	169.993	87.213	42.851	130.064	162.643	59.171	72.206	50.100	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	4,546.91	1,174.30	1,351.69	1,564.08	2,326.46	1,753.38	1,476.13	2,462.38	3,501.58	69,972.07	Continuing	Continuing

Description:

This budget line procures all Hydra-70 rocket types in support of operational, training and war reserve requirements. The system provides combat overmatch capability and ensures the availability of munitions to support combat operations. This system of aerial rockets is used by Army aircraft (AH-64 Apache, H-60 Blackhawk and Special Operations aircraft). The unguided systems perform a number of roles including anti-materiel, anti-personnel, air-to-ground suppression and illumination. The guided system is used to provide increased accuracy over the unguided munitions in precision strikes against lightly armored and soft point targets enabling better conformance to restricted rules of engagement. This Hydra-70 rocket funding supports the entire Hydra-70 Rocket System to include resolution of obsolescence, safety, reliability, weapon integration activities, potential test sets, engineering changes, production issues and guidance section repair kits.

NOTE: QTY EA

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets **P-1 Line Item Number / Title:** E37300 / Rocket, Hydra 70, 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-40a	E05302 / ROCKET HYDRA 70 FLECHETTE M255A1		A	10,040 / 244.625	- / -	- / -	- / -	- / -	- / -
P-40a	E37308 / ROCKET SMOKE 2.75 M156 W/FUZE M423 W/MTR 66			- / 2.982	- / -	- / -	- / -	- / -	- / -
P-40a	E37330 / ROCKET HYDRA 70 SMOKE M264			- / 48.652	- / -	- / -	- / -	- / -	- / -
P-40a	E37338 / Rocket, Hydra 70, Flare Infrared (IR) M278			- / 55.911	- / -	- / -	- / -	- / -	- / -
P-40a	E52200 / ROCKET HYDRA 70 ILLUM M257		A	- / 55.588	- / -	- / -	- / -	- / -	- / -
P-5	E37315 / Rocket Hydra, Guidance Section			- / -	626 / 19.571	- / -	- / -	- / -	- / -
P-5	E37335 / ROCKET HYDRA 70 HE/PD M151/M423	P-5a, P-21	A	10,080 / 21.205	47,520 / 49.237	- / -	- / -	- / -	- / -
P-5	E37337 / ROCKET HYDRA 70 SIG PRAC M274	P-5a, P-21	A	74,592 / 1.688	32,064 / 25.383	- / -	- / -	- / -	- / -
P-5	E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided	P-5a, P-21		- / -	- / -	125,664 / 167.004	55,660 / 84.146	18,419 / 42.851	74,079 / 126.997
P-5	E37413 / AMMO-Hydra, Aviation Rocket Procurement, Guided	P-5a, P-21		- / -	- / -	99 / 2.990	100 / 3.067	- / -	100 / 3.067
P-40	Total Gross/Weapon System Cost			94,712 / 430.647	80,210 / 94.191	125,763 / 169.993	55,760 / 87.213	18,419 / 42.851	74,179 / 130.064

*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 Hydra-70 Product Office is the procurement agent for all services, for all variants of 2.75 Rockets. This budget activity includes both training standard items and items that may be used in both training and combat. The Fiscal Year (FY) 2017 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$87.213 million will procure 55,660 unguided Hydra-70 Rockets and 100 guidance sections. FY 2017 OCO procurement dollars in the amount of \$42.851 million will procure 18,419 unguided Hydra-70 Rockets. Procurement funding is required in FY 2017 in order to support further evaluation and theater requirements pending a decision on an enduring guided rocket capability. The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or Foreign Military Sales (FMS) into a buy-to-budget procurement strategy. Pricing and quantities in FY 2016-2021 is uncertain due to an unknown Mk90 grain price planned for negotiation in FY 2016.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45 **P-1 Line Item Number / Title:** E37300 / Rocket, Hydra 70, All Types **Aggregated Items Title:** Various

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)
ROCKET HYDRA 70 FLECHETTE M255A1																				
E05302 / ROCKET HYDRA 70 FLECHETTE M255A1	A		24,365.04	10,040	244.625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E37308 / ROCKET SMOKE 2.75 M156 W/FUZE M423 W/ MTR 66			-	-	2.982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E37330 / ROCKET HYDRA 70 SMOKE M264			-	-	48.652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E37338 / Rocket, Hydra 70, Flare Infrared (IR) M278			-	-	55.911	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E52200 / ROCKET HYDRA 70 ILLUM M257	A		-	-	55.588	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: ROCKET HYDRA 70 FLECHETTE M255A1			-	-	407.758	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	407.758	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types	Item Number / Title [DODIC]: E37315 / Rocket Hydra, Guidance Section

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 <i>(Units in Each)</i>	-	626	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	19.571	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	19.571	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	19.571	-	-	-	-

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	31,263.58	-	-	-	-

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)
Flyaway Cost																		
Recurring Cost																		
Complete Round	-	-	-	28,502.00	626	17.842	-	-	-	-	-	-	-	-	-	-	-	-
Prod/Sys Eng/Prog Mgt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Component Eng Spt (Other Govt Agencies)	-	-	-	-	-	1.729	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	19.571	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	19.571	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	31,263.58	626	19.571	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types	Item Number / Title [DODIC]: E37335 / ROCKET HYDRA 70 HE/PD M151/M423

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	10,080	47,520	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	21.205	49.237	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	21.205	49.237	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	21.205	49.237	-	-	-	-

(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)	2,103.67	1,036.13	-	-	-	-

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)
Flyaway Cost																		
Recurring Cost																		
Complete Round ^(†)	1,682.94	10,080	16.964	927.88	47,520	44.093	-	-	-	-	-	-	-	-	-	-	-	-
Prod/Sys Engineering/ Program Management	-	-	2.539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Component Eng Spt (Other Gov't Agencies)	-	-	1.701	-	-	5.144	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>21.204</i>	-	-	<i>49.237</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>21.204</i>	-	-	<i>49.237</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	2,103.67	10,080	21.205	1,036.13	47,520	49.237	-	-	-	-	-	-	-	-	-	-	-	-

^(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45			P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types				Item Number / Title [DODIC]: E37335 / ROCKET HYDRA 70 HE/PD M151/M423					
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
Complete Round ^(†)		2015	General Dynamics / Williston	C / FFP	Redstone Arsenal, AL	May 2015	Jun 2017	47,520	927.88			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types										Item Number / Title [DODIC]: E37335 / ROCKET HYDRA 70 HE/PD M151/M423									

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		S E P

Complete Round

Prior Years Deliveries: 10080																													
1	2015	ARMY	47.520	-	47.520																								47.520
1	2015	FMS (†)	21.648	-	21.648																								21.648
1	2015	Total	69.168	-	69.168																								69.168

						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types										Item Number / Title [DODIC]: E37335 / ROCKET HYDRA 70 HE/PD M151/M423									

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

Complete Round
Prior Years Deliveries: 10080

1	2015	ARMY	47.520	-	47.520	-	-	-	-	-	-	-	-	-	9.504	9.504	9.504	-	9.504	9.504													-
1	2015	FMS (†)	21.648	-	21.648	-	-	-	-	-	1.776	-	-	-	-	-	-	-	14.880	4.992													-
1	2015	Total	69.168	-	69.168	-	-	-	-	-	1.776	-	-	9.504	9.504	9.504	-	24.384	14.496													-	

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45		P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types
		Item Number / Title [DODIC]: E37335 / ROCKET HYDRA 70 HE/PD M151/M423

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 - Williston		15	30	6	7	22	29	6	5	18	23

(‡) 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).

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types	Item Number / Title [DODIC]: E37337 / ROCKET HYDRA 70 SIG PRAC M274

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	74,592	32,064	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.688	25.383	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.688	25.383	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.688	25.383	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	22.63	791.64	-	-	-	-

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)
Flyaway Cost																		
Recurring Cost																		
Complete Round ^(†)	22.27	74,592	1.661	719.25	32,064	23.062	-	-	-	-	-	-	-	-	-	-	-	-
Prod/Sys Engineering/ Program Management	-	-	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Component Eng Spt (Other Gov't Agencies)	-	-	0.011	-	-	2.321	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1.688</i>	-	-	<i>25.383</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1.688</i>	-	-	<i>25.383</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	22.63	74,592	1.688	791.64	32,064	25.383	-	-	-	-	-	-	-	-	-	-	-	-

^(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45			P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types				Item Number / Title [DODIC]: E37337 / ROCKET HYDRA 70 SIG PRAC M274					
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
Complete Round ^(†)		2015	General Dynamics / Williston	C / FFP	Redstone Arsenal, AL	May 2015	Jun 2017	32,064	719.25			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types										Item Number / Title [DODIC]: E37337 / ROCKET HYDRA 70 SIG PRAC M274									

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					
Complete Round																																				
Prior Years Deliveries: 74592																																				
1		2015	ARMY	32.064	-	32.064									A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.064	

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army																							Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45											P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types											Item Number / Title [DODIC]: E37337 / ROCKET HYDRA 70 SIG PRAC M274										
Cost Elements <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	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	
Complete Round																																
Prior Years Deliveries: 74592																																
1	2015	ARMY		32.064	-	32.064	-	-	-	-	-	-	-	-	4.080	1.000	14.552	-	3.744	3.696	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45		P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types
		Item Number / Title [DODIC]: E37337 / ROCKET HYDRA 70 SIG PRAC M274

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 - Williston		25	35	6	7	22	29	6	5	18	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-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types	Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided

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 (<i>Units in Each</i>)	-	-	125,664	55,660	18,419	74,079
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	167.004	84.146	42.851	126.997
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	167.004	84.146	42.851	126.997
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	167.004	84.146	42.851	126.997

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	1,328.97	1,511.79	2,326.46	1,714.35

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)
Flyaway Cost																		
Recurring Cost																		
Complete Round ^(†)	-	-	-	-	-	-	1,087.38	125,664	136.645	1,078.58	55,660	60.034	1,804.39	18,419	33.235	1,259.05	74,079	93.269
Prod/Sys Engineering/ Program Management	-	-	-	-	-	-	-	-	12.397	-	-	8.087	-	-	4.517	-	-	12.604
Component Eng Spt (Other Gov't Agencies)	-	-	-	-	-	-	-	-	17.962	-	-	16.025	-	-	5.099	-	-	21.124
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>167.004</i>	-	-	<i>84.146</i>	-	-	<i>42.851</i>	-	-	<i>126.997</i>
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	<i>167.004</i>	-	-	<i>84.146</i>	-	-	<i>42.851</i>	-	-	<i>126.997</i>
Gross/Weapon System Cost	-	-	-	-	-	-	1,328.97	125,664	167.004	1,511.79	55,660	84.146	2,326.46	18,419	42.851	1,714.35	74,079	126.997

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45			P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types				Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided				

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
Complete Round ^(†)		2016	General Dynamics / Williston, VT	C / FFP	Redstone Arsenal, AL	Mar 2016	Sep 2017	16,257	1,088.00	Y		Apr 2013
Complete Round ^(†)		2016	Gen Dynamics / Williston, VT	C / FFP	Redstone Arsenal, AL	Mar 2016	Sep 2017	109,407	1,088.00	Y		Apr 2013
Complete Round ^(†)		2017	General Dynamics / Williston, VT	C / FFP	Redstone Arsenal, AL	Mar 2017	Sep 2018	55,660	1,181.00	Y		Apr 2013
Complete Round ^(†)		2017	Gen Dynamics / Williston, VT	C / FFP	Redstone Arsenal, AL	Mar 2017	Sep 2018	18,419	1,804.00	Y		Apr 2013

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army					Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45			P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types					Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided				

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2016											Fiscal Year 2017											B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016											Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L	A U G
Complete Round																														
1	2016	ARMY ^(IV)	16.257	-	16.257																								2.257	14.000
2	2016	ARMY ^(VI)	109.407	-	109.407																								10.000	99.407
1	2017	ARMY ^(V)	55.660	-	55.660																									55.660
2	2017	ARMY ^(VII)	18.419	-	18.419																									18.419
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types										Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2018												Fiscal Year 2019												B A L A N C E			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P	
Complete Round																																
	1	2016	ARMY ^(IV)	16.257	2.257	14.000	2.000	2.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	-		
	2	2016	ARMY ^(VI)	109.407	10.000	99.407	9.407	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	-		
	1	2017	ARMY ^(V)	55.660	-	55.660	-	-	-	-	-	-	-	-	-	-	-	5.660	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	4.000	4.000	4.000	4.000	4.000	-
	2	2017	ARMY ^(VII)	18.419	-	18.419	-	-	-	-	-	-	-	-	-	-	-	2.419	2.000	2.000	2.000	2.000	2.000	2.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45		P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types
		Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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 - Williston, VT	300	25,000	35,000	6	7	22	29	6	5	18	23
2	Gen Dynamics - Williston, VT	300	25,000	35,000	6	7	22	29	6	5	18	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).

Service/Agency Suffixes:

- (IV) BASE
- (V) BASE
- (VI) OCO
- (VII) OCO

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45		P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types
		Item Number / Title [DODIC]: E37413 / AMMO-Hydra, Aviation Rocket Procurement, Guided

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 <i>(Units in Each)</i>	-	-	99	100	-	100
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	2.990	3.067	-	3.067
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	2.990	3.067	-	3.067
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	2.990	3.067	-	3.067

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	30,202.02	30,670.00	-	30,670.00

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)
Flyaway Cost																		
Recurring Cost																		
Complete Round ^(†)	-	-	-	-	-	-	30,202.02	99	2.990	28,700.00	100	2.870	-	-	-	28,700.00	100	2.870
Prod/Sys Eng/Prog Mgt	-	-	-	-	-	-	-	-	-	-	-	0.055	-	-	-	-	-	0.055
Component Eng Spt (OGAs)	-	-	-	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	0.142
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	2.990	-	-	3.067	-	-	-	-	-	3.067
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	2.990	-	-	3.067	-	-	-	-	-	3.067
Gross/Weapon System Cost	-	-	-	-	-	-	30,202.02	99	2.990	30,670.00	100	3.067	-	-	-	30,670.00	100	3.067

^(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45			P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types				Item Number / Title [DODIC]: E37413 / AMMO-Hydra, Aviation Rocket Procurement, Guided				

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
Complete Round ^(†)		2016	BAE Systems / Nashua, NH	SS / FFP	Pax River, MD	Mar 2016	Sep 2017	99	30,202.00			
Complete Round ^(†)		2017	BAE Systems / Nashua, NH	SS / FFP	Pax River, MD	Mar 2017	Sep 2018	100	28,700.00			

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army													Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types												Item Number / Title [DODIC]: E37413 / AMMO-Hydra, Aviation Rocket Procurement, Guided											

Cost Elements <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
Complete Round																															
	1	2016	ARMY (VIII)	99	-	99																								9	90
	1	2017	ARMY (IX)	100	-	100																									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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types										Item Number / Title [DODIC]: E37413 / AMMO-Hydra, Aviation Rocket Procurement, Guided									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Complete Round																															
1		2016	ARMY ^(VIII)	99	9	90	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	-		
1		2017	ARMY ^(IX)	100	-	100	-	-	-	-	-	-	-	-	-	-	-	9	9	9	9	8	8	8	8	8	8	8	-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45		P-1 Line Item Number / Title: E37300 / Rocket, Hydra 70, All Types
Item Number / Title [DODIC]: E37413 / AMMO-Hydra, Aviation Rocket Procurement, Guided		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	200	1,000	10,000	-	-	-	-	-	2	11	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).

Service/Agency Suffixes:

(VIII) Base

(IX) Base

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition	P-1 Line Item Number / Title: E61000 / CAD/PAD, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>	121.931	5.430	5.639	4.914	-	4.914	6.441	5.984	6.103	6.225	-	162.667
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	121.931	5.430	5.639	4.914	-	4.914	6.441	5.984	6.103	6.225	-	162.667
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	121.931	5.430	5.639	4.914	-	4.914	6.441	5.984	6.103	6.225	-	162.667

(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:

Includes Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) all types.

CAD/PAD are used in various escape and jettison systems on all types of Army aircraft. They are required to support aircraft escape, safety, and jettison systems and mission essential needs. Items are subject to shelf and service life restrictions and, therefore, require replacement at specified intervals.

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Number / Title:
E61000 / CAD/PAD, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	EA0003 / CAD/PAD, All Other			- / 121.931	- / 5.430	- / 5.639	- / 4.914	- / -	- / 4.914
P-40	Total Gross/Weapon System Cost			- / 121.931	- / 5.430	- / 5.639	- / 4.914	- / -	- / 4.914

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 program is required to assure availability of replacement items when needed and avoid grounding aircraft or rendering aircraft partially mission capable.

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47 **P-1 Line Item Number / Title:** E61000 / CAD/PAD, All Types **Aggregated Items Title:** Various

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)
CAD/PAD, All Other																				
EA0003 / CAD/PAD, All Other			-	-	121.931	-	-	5.430	-	-	5.639	-	-	4.914	-	-	-	-	-	4.914
Subtotal: CAD/PAD, All Other			-	-	121.931	-	-	5.430	-	-	5.639	-	-	4.914	-	-	-	-	-	4.914
Total			-	-	121.931	-	-	5.430	-	-	5.639	-	-	4.914	-	-	-	-	-	4.914

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	324.541	23.673	13.751	6.380	6.373	12.753	37.412	17.028	14.436	11.499	-	455.093
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	324.541	23.673	13.751	6.380	6.373	12.753	37.412	17.028	14.436	11.499	-	455.093
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	324.541	23.673	13.751	6.380	6.373	12.753	37.412	17.028	14.436	11.499	-	455.093

(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 budget line includes Demolition Munitions, All Types.

(E45403) Magneto-Inductive (MI) Firing Device Receiver (XM40) has the capability of detonating a secondary explosive lead, an M7 non-electric military blasting cap or Modernized Demolition Initiator. It is the receiver for the M156 Remote Firing Device which can provide reliable wireless initiation of demolition charges through all mediums. This item is a Code B, not approved for service use.

(E45404) The M17E1 Receiver, Radio Frequency Remote Activation Munition System (RF-RAMS) (DODIC MP47) is a one-time use receiver that provides the un-tethered capability to wirelessly function/initiate demolition charges or munitions up to and beyond 5 KM line-of-sight/non line-of-sight, once it receives the correct programmed coded signal from the MK152 RF-RAMS transmitter. The Receiver is programmed in the field by an RF-RAMS Transmitter and subsequently responds only to that transmitter. The M17E1 Receiver is a single use item, which is capable of functioning non electric blasting caps or detonation cord. Ongoing design verification testing of the M17E1 will support an Engineering Change Proposal (ECP) approval in SEP 15 and the subsequent initial production build in OCT 15. This item is Code A, approved for service use.

(E50601) Charge Demolition Block Comp C-4 1-1/4 LB M112 is the primary demolition explosive used by the U.S. Army. The M112 Demolition Block is used for general demolition and, in particular, for destruction of captured enemy ammunition. The block demolition charge consists of 1-1/4 pounds of composition C-4 plastic explosive packed in a Mylar-film bag. Pressure sensitive adhesive tape is provided on one of the rectangular surfaces, allowing quick emplacement by the individual soldier on the object to be destroyed. The explosive may be cut and/or removed from its wrapper and hand molded into a desired shape suited to the target. Upon detonation, the shock wave destroys the target by cutting, breaching or cratering. This item is Code A, approved for service use.

(E52500) Cap Blasting Electric M6 is used to initiate high explosives. It is initiated by an electrical charge from a blasting machine or other source of electric power. Blasting cap M6 consists of a base charge of RDX, an intermediate charge of lead azide and an ignition charge of smokeless powder, potassium chlorate and lead salt of dinitro cresol in an aluminum alloy cup. Two 12-foot lead wires, connected by a bridge wire in the ignition charge, extend through a rubber plug assembly in the open end of the cup. This item is Code A, approved for service use.

(E54100) Detonating Cord is used to prime and detonate explosive charges. Unlike the time fuze, which burns slowly, detonating cord burns almost instantaneously. It is used to link a series of near simultaneous charges. The Type 1, Class E detonating cord consists of a core of high velocity explosive in a seamless textile tube. The tube is covered with a thin layer of asphalt and sheathed in an outer cover of plastic coated textile. The plastic outer cover is smooth and colored olive drab. This item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E59100) The Cartridge Impulse Electrically Initiated is used in Explosive Ordnance Disposal (EOD) tools and equipment. It is an electrically initiated, gas producing device. It is initiated with an MK1-2 squib in place of the percussion primer. This item is Code A, approved for service use.</p> <p>(E76701) The Cutter, High Explosive MK23 MOD 1, is an Explosive Ordnance Disposal (EOD) tool. It is initiated with a blasting cap and uses an explosive formed penetrator to disable a target munition. This item is restricted in the Army to EOD use only. This item is Code A, approved for service use.</p> <p>(E76702) The Cutter, High Explosive MK24 MOD 1, is an Explosive Ordnance Disposal (EOD) tool. It is initiated with a blasting cap and uses an explosive formed penetrator to disable a target munition. This item is restricted in the Army to EOD use only. This item is Code A, approved for service use.</p> <p>(E76728) MK 788-0, Main Charge Disrupter is a device used to render-safe unexploded ordnance (UXO). Upon initiation, the device attacks and neutralizes the main charge explosive by generating reactions up to and including low-order detonations. It is a non-developmental item (NDI) consisting of an energetic tool (ET), a demolition material interface adapter, and an emplacement stand. The MCD provides EOD with an improved neutralization capability in situations where the use of more traditional methods (attacking the fuzing mechanism or high-order detonation) is not possible or desired. This item is Code B, not approved for service use.</p> <p>(E78201) The M980 Demolition Charge is a 20 pound, 38 foot roll of flexible explosive. It is 10 inches wide and .083 inches thick. It can be easily cut and formed into various shapes and is primarily used as a cutting charge. This item is Code A, approved for service use.</p> <p>(E81302) Cap Blasting Non-Elec, W/30 ft Shock Tube is part of the family of Modern Demolition Initiators (MDI). It consists of a blasting cap which is factory sealed to a length of shock tube. The tube is activated using an M81 igniter. A shock wave travels the length of the tube, with a delay measured in milliseconds, and ignites the blasting cap which in turn initiates the main charge. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. The 30 foot length is generally used as a linking charge for a series of demolitions. This item is Code A, approved for service use.</p> <p>(E81307) Igniter, Time Fuze and Shock Tube, M81 is a device, hand held by the individual Soldier, with a small primer charge that will activate the M700 Time Fuze as well as a shock tube. It is the primary device for all non-electrical demolition initiation. This item is Code A, approved for service use.</p> <p>(E99800) Anti-Personnel Obstacle Breaching System (APOBS) Training Aid, Inert is a classroom training aid for the APOBS (E72800). It's appearance and weight are identical to the APOBS, but it is entirely non-functional and is only used to demonstrate proper set up of the system prior to firing. This item is Code A, approved for service use.</p> <p>(E99903) Blast Cap, Non-Elec: 500Ft Minitube, M21 is part of the family of Modern Demolition Initiators (MDI). It consists of an initiating component used to activate standard military explosives and demolition devices. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. This item is Code A, approved for service use.</p> <p>(E99905) Blast Cap, Non-Elec, 1000Ft Minitube, M23 is part of the family of Modern Demolition Initiators (MDI). It consists of an initiating component used to activate standard military explosives and demolition devices. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. This item is Code A, approved for service use.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Number / Title:
E55400 / Demolition Munitions, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E45403 / RECEIVER, MAGNETO-INDUCTIVE FIRING DEVICE: XM40 [XM40]		B	- / 7.595	- / -	- / -	- / -	- / 0.109	- / 0.109
P-5	E45404 / RECEIVER, M17E1 RADIO FIRING-REMOTE ACTV(RF-RAMS) [MP47]	P-5a, P-21	A	- / -	3,613 / 11.851	- / -	- / -	- / 0.046	- / 0.046
P-5	E50601 / CHG DEMO BLK COMP C-4 1-1/4 LB M112 [M023]	P-5a, P-21	A	- / 217.817	162,947 / 5.417	116,150 / 5.088	- / -	180,101 / 6.218	180,101 / 6.218
P-5	E52500 / CAP BLASTING ELEC M6 [M130]		A	- / 15.210	26,955 / 1.008	- / 1.583	- / -	- / -	- / -
P-5	E54100 / CORD DETONATING TYPE 1 [M456]		A	- / 26.739	2,305,414 / 1.113	2,508,885 / 1.157	3,055,707 / 1.500	- / -	3,055,707 / 1.500
P-5	E59100 / CARTRIDGE IMPULSE ELECTRICALLY INITIATED DRG NO LD [SS01]		A	- / -	- / -	8,113 / 0.993	8,126 / 1.012	- / -	8,126 / 1.012
P-5	E76701 / CUTTER HIGH EXPLOSIVE MK23 MOD 1 (POWDER ACTIVATE) [ML04]		A	- / 0.715	- / -	1,914 / 0.750	- / -	- / -	- / -
P-5	E76702 / CUTTER HIGH EXPLOSIVE MK24 MOD 1 (POWDER ACTIVATE) [ML05]		A	- / 2.168	- / -	942 / 0.750	- / -	- / -	- / -
P-5	E76728 / Disrupter, Main Charge, MK 788-0 [DWDF]		B	- / 0.879	79 / 0.059	97 / 0.061	84 / 0.062	- / -	84 / 0.062
P-5	E78201 / CHARGE DEMO (38FT) Sheet Explosive, PBXW-202 [M980]		A	- / 4.114	- / -	35,290 / 1.200	34,785 / 1.200	- / -	34,785 / 1.200
P-5	E81302 / CAP BLASTING NON-ELEC, W/30 FT SHOCK TUBE [ML47]		A	- / 6.354	5,040 / 0.186	3,320 / 0.241	- / -	- / -	- / -
P-5	E81307 / IGNITER, TIME FUZE AND SHOCK TUBE M81 [MN08]		A	- / 16.375	64,080 / 0.510	19,058 / 0.300	24,209 / 0.306	- / -	24,209 / 0.306
P-5	E99800 / APOBS Training Aid, Inert [MN84]		A	- / -	196 / 1.971	- / -	- / -	- / -	- / -
P-5	E99903 / Blast Cap, Non-Elec: 500Ft Minitube, M21 [MN88]		A	- / 12.082	6,040 / 0.753	4,605 / 0.779	4,508 / 1.200	- / -	4,508 / 1.200
P-5	E99905 / Blast Cap, Non-Elec, 1000Ft Minitube, M23 [MN90]		A	- / 14.493	5,000 / 0.805	4,031 / 0.849	4,647 / 1.100	- / -	4,647 / 1.100
P-40	Total Gross/Weapon System Cost			- / 324.541	- / 23.673	- / 13.751	- / 6.380	- / 6.373	- / 12.753

*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:
2017 Base Budget support critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station and the combined training centers. Test requirements support the development, fielding, safety and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$6.380 million supports production of 7 variants of Demolitions.

The FY 2017 OCO includes \$6.373 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiatives. The FY 2017 includes 1 variant of Demolitions.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E45403) Magneto-Inductive (MI) Firing Device Receiver (XM40) This is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal. The FY 2017 OCO includes \$0.109 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiatives.</p> <p>(E45404) M17E1 Receiver, Radio Frequency Remote Activation Munition System (RF-RAMS) This is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve in accordance with the Army's procurement goal. The FY 2017 OCO includes \$0.046 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiatives.</p> <p>(E50601) Charge Demo BLK Comp C-4 1-1/4 LB M112 This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal. The FY 2017 OCO includes \$6.218 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiatives. The FY 2017 OCO supports the production of 180,101 Demolitions Blocks, C-4.</p> <p>(E52500) Cap, Blasting Electric M6 This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals.</p> <p>(E54100) Detonating Cord, Type 1 This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.500 million supports the production of 3.056 million feet of Type 1 detonating cord.</p> <p>(E59100) The Cartridge Impulse Electrically Initiated is used in Explosive Ordnance Disposal (EOD) tools and equipment. This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.012 million supports production of 8,126 cartridges.</p> <p>(E76701) Cutter High Explosive MK23, MOD 1, is an Explosive Ordnance Disposal (EOD) tool. This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals.</p> <p>(E76702) Cutter High Explosive MK24, MOD 1, is an Explosive Ordnance Disposal (EOD) tool. This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals.</p> <p>(E76728) MK 788-0, Main Charge Disrupter This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.062 million supports procurement of 84 disrupters.</p> <p>(E78201) M980 Demolition Charge, 38 foot Sheet Explosive This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.200 million supports production of 34,785 feet of sheet explosive.</p> <p>(E81302) Cap Blasting Non-Electric, W/30 ft Shock Tube is part of the family of Modernized Demolition Initiators. This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E81307) Igniter, Time Fuze and Shock Tube, M81 This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.306 million supports production of 24,209 igniters.</p> <p>(E99800) Anti-Personnel Obstacle Breaching System (APOBS) This is a training standard item used in training and combat. Request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals.</p> <p>(E99903) Blast Cap, Non-Elec: 500Ft Minitube, M21 is part of the family of Modern Demolition Initiators (MDI). This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.200 million supports production of 4,508 blasting caps.</p> <p>(E99905) Blast Cap, Non-Elec, 1000Ft Minitube, M23 is part of the family of Modern Demolition Initiators (MDI). This is a training standard item used in training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.100 million supports production of 4,647 blasting caps.</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E45403 / RECEIVER, MAGNETO-INDUCTIVE FIRING DEVICE: XM40 [XM40]

ID Code (A=Service Ready, B=Not Service Ready) : B	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)	7.595	-	-	-	0.109	0.109
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	7.595	-	-	-	0.109	0.109
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	7.595	-	-	-	0.109	0.109

(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 Cost																		
Recurring Cost																		
Complete Round	-	-	7.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	7.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	7.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.109	-	-	0.109
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.109	-	-	0.109
Gross/Weapon System Cost	-	-	7.595	-	-	-	-	-	-	-	-	-	-	-	0.109	-	-	0.109

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E45404 / RECEIVER, M17E1 RADIO FIRING-REMOTE ACTV(RF-RAMS) [MP47]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	3,613	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	11.851	-	-	0.046	0.046
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	11.851	-	-	0.046	0.046
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	11.851	-	-	0.046	0.046

(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)	-	3,280.10	-	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	2,160.00	3,613	7.804	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	7.804	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	7.804	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.325	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.325	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	2.982	-	-	-	-	-	-	-	-	0.046	-	-	0.046
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	2.982	-	-	-	-	-	-	-	-	0.046	-	-	0.046
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.740	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.740	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	3,280.10	3,613	11.851	-	-	-	-	-	-	-	-	0.046	-	-	0.046

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E45404 / RECEIVER, M17E1 RADIO FIRING-REMOTE ACTV(RF-RAMS) [MP47]
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47			P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E45404 / RECEIVER, M17E1 RADIO FIRING-REMOTE ACTV(RF-RAMS) [MP47]				

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
COMPLETE ROUND ^(†)		2015	TO BE SELECTED / TBS01	C / TBD	PICATINNY ARSENAL, NJ	Mar 2016	Aug 2017	3,613	2,160.00	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
		Item Number / Title [DODIC]: E45404 / RECEIVER, M17E1 RADIO FIRING-REMOTE ACTV(RF-RAMS) [MP47]

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018											Fiscal Year 2019											BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018											Calendar Year 2019											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L

COMPLETE ROUND																														-					
1	2015	ARMY		3,613	1,000	2,613	500	500	500	500	613																								

							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
Item Number / Title [DODIC]: E45404 / RECEIVER, M17E1 RADIO FIRING-REMOTE ACTV(RF-RAMS) [MP47]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	125	500	2,000	8	8	18	26	6	6	12	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E50601 / CHG DEMO BLK COMP C-4 1-1/4 LB M112 [M023]							
ID Code (A=Service Ready, B=Not Service Ready) : A									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)				-		162,947			116,150			-			180,101			180,101	
Gross/Weapon System Cost (\$ in Millions)				217.817		5.417			5.088			-			6.218			6.218	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-			-	
Net Procurement (P-1) (\$ in Millions)				217.817		5.417			5.088			-			6.218			6.218	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-			-	
Total Obligation Authority (\$ in Millions)				217.817		5.417			5.088			-			6.218			6.218	
<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)				-		33.24			43.81			-			34.53			34.53	
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 Cost																			
Recurring Cost																			
LOAD, ASSEMBLE, PACK (LAP) ^(†)		-	-	217.817	6.46	162,947	1.053	10.46	116,150	1.215	-	-	-	7.30	180,101	1.315	7.30	180,101	1.315
COMP C-4 CLASS 3 ^(†)		-	-	-	14.49	215,090	3.117	23.05	153,318	3.534	-	-	-	18.31	237,733	4.353	18.31	237,733	4.353
<i>Subtotal: Recurring Cost</i>		-	-	<i>217.817</i>	-	-	<i>4.169</i>	-	-	<i>4.749</i>	-	-	-	-	-	<i>5.668</i>	-	-	<i>5.668</i>
<i>Subtotal: Hardware Cost</i>		-	-	<i>217.817</i>	-	-	<i>4.169</i>	-	-	<i>4.749</i>	-	-	-	-	-	<i>5.668</i>	-	-	<i>5.668</i>
Support - Acceptance Testing Cost																			
First Article Test		-	-	-	-	-	-	-	0.029	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>		-	-	-	-	-	-	-	<i>0.029</i>	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																			
Production Engineering		-	-	-	-	-	1.241	-	-	0.309	-	-	-	-	-	0.550	-	-	0.550
<i>Subtotal: Support - Production Engineering Cost</i>		-	-	-	-	-	<i>1.241</i>	-	-	<i>0.309</i>	-	-	-	-	-	<i>0.550</i>	-	-	<i>0.550</i>
Support - Quality Assurance Cost																			
Quality Assurance		-	-	-	-	-	0.006	-	-	0.001	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>		-	-	-	-	-	<i>0.006</i>	-	-	<i>0.001</i>	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost		-	-	217.817	33.24	162,947	5.417	43.81	116,150	5.088	-	-	-	34.53	180,101	6.218	34.53	180,101	6.218

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E50601 / CHG DEMO BLK COMP C-4 1-1/4 LB M112 [M023]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47			P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E50601 / CHG DEMO BLK COMP C-4 1-1/4 LB M112 [M023]					

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Jul 2016	162,947	6.46	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2016	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	116,150	10.46	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	✓	2017	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	180,101	7.30	Y		
COMP C-4 CLASS 3		2015	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Apr 2015	Jul 2015	215,090	14.49	Y		
COMP C-4 CLASS 3		2016	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2016	153,318	23.05	Y		
COMP C-4 CLASS 3	✓	2017	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2017	237,733	18.31	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2016 is a delivery order to an existing contract.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types										Item Number / Title [DODIC]: E50601 / CHG DEMO BLK COMP C-4 1-1/4 LB M112 [M023]									

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
LOAD, ASSEMBLE, PACK (LAP)																															
	1	2015	ARMY	162.947	133.759	29.188																								-	
	1	2015	NSOF (+)	48.924	48.924	-																								-	
	1	2015	AF (+)	97.841	73.380	24.461																								-	
	1	2015	Total	309.712	256.063	53.649																								-	
	1	2016	ARMY	116.150	-	116.150	-	-	-	-	-	67.234	48.916																-		
	1	2016	AF (+)	50.505	-	50.505	-	-	-	-	-	25.252	25.253																-		
	1	2016	Total	166.655	-	166.655	-	-	-	-	-	92.486	74.169																-		
✓	1	2017	ARMY	180.101	-	180.101						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.787	97.000	64.314	-	
✓	1	2017	AF (+)	61.753	-	61.753						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61.753	-	-	-	
✓	1	2017	NAVSEA (+)	16.460	-	16.460						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.460	-	-	-	
✓	1	2017	Total OCO	258.314	-	258.314																					97.000	97.000	64.314	-	

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
		Item Number / Title [DODIC]: E50601 / CHG DEMO BLK COMP C-4 1-1/4 LB M112 [M023]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	14,000	97,000	200,000	8	8	18	26	6	6	12	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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E52500 / CAP BLASTING ELEC M6 [M130]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	26,955	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	15.210	1.008	1.583	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	15.210	1.008	1.583	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	15.210	1.008	1.583	-	-	-

(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)	-	37.40	-	-	-	-

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 Cost																		
Recurring Cost																		
Complete Round	-	-	15.210	27.48	26,955	0.741	37.17	34,300	1.275	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>15.210</i>	-	-	<i>0.741</i>	-	-	<i>1.275</i>	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	15.210	-	-	0.741	-	-	1.275	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	<i>0.030</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Verification Test	-	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	<i>0.021</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.214	-	-	0.306	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.214</i>	-	-	<i>0.306</i>	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.002	-	-	0.002	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	<i>0.002</i>	-	-	<i>0.002</i>	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: E52500 / CAP BLASTING ELEC M6 [M130]		

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	-	-	15.210	37.40	26,955	1.008	-	-	1.583	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
		Item Number / Title [DODIC]: E54100 / CORD DETONATING TYPE 1 [M456]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 <i>(Units in Each)</i>	-	2,305,414	2,508,885	3,055,707	-	3,055,707
Gross/Weapon System Cost <i>(\$ in Millions)</i>	26.739	1.113	1.157	1.500	-	1.500
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	26.739	1.113	1.157	1.500	-	1.500
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	26.739	1.113	1.157	1.500	-	1.500

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	0.48	0.46	0.49	-	0.49

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 Cost																		
Recurring Cost																		
Complete Round	-	-	26.739	0.33	2,305,414	0.761	0.32	2,508,885	0.803	0.35	3,055,707	1.069	-	-	-	0.35	3,055,707	1.069
<i>Subtotal: Recurring Cost</i>	-	-	26.739	-	-	0.761	-	-	0.803	-	-	1.069	-	-	-	-	-	1.069
Subtotal: Hardware Cost	-	-	26.739	-	-	0.761	-	-	0.803	-	-	1.069	-	-	-	-	-	1.069
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.350	-	-	0.350	-	-	0.427	-	-	-	-	-	0.427
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.350	-	-	0.350	-	-	0.427	-	-	-	-	-	0.427
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.002	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.002	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	26.739	0.48	2,305,414	1.113	0.46	2,508,885	1.157	0.49	3,055,707	1.500	-	-	-	0.49	3,055,707	1.500

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E59100 / CARTRIDGE IMPULSE ELECTRICALLY INITIATED DRG NO LD [SS01]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	8,113	8,126	-	8,126
Gross/Weapon System Cost (\$ in Millions)	-	-	0.993	1.012	-	1.012
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	0.993	1.012	-	1.012
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	0.993	1.012	-	1.012

(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)	-	-	122.40	124.54	-	124.54

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 Cost																		
Recurring Cost																		
Complete Round	-	-	-	-	-	-	110.15	8,113	0.894	112.07	8,126	0.911	-	-	-	112.07	8,126	0.911
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>0.894</i>	-	-	<i>0.911</i>	-	-	-	-	-	<i>0.911</i>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<i>0.894</i>	-	-	<i>0.911</i>	-	-	-	-	-	<i>0.911</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.099	-	-	0.101	-	-	-	-	-	0.101
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	<i>0.099</i>	-	-	<i>0.101</i>	-	-	-	-	-	<i>0.101</i>
Gross/Weapon System Cost	-	-	-	-	-	-	122.40	8,113	0.993	124.54	8,126	1.012	-	-	-	124.54	8,126	1.012

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
		Item Number / Title [DODIC]: E76701 / CUTTER HIGH EXPLOSIVE MK23 MOD 1 (POWDER ACTIVATE) [ML04]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	1,914	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.715	-	0.750	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.715	-	0.750	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.715	-	0.750	-	-	-

(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)	-	-	391.85	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	0.715	-	-	-	253.65	1,914	0.485	-	-	-	-	-	-	-	-	-
OCTOL TY II CL 2 (70/30)	-	-	-	-	-	-	47.49	421	0.020	-	-	-	-	-	-	-	-	-
COMP CH-6	-	-	-	-	-	-	13.00	92	0.001	-	-	-	-	-	-	-	-	-
BOX METAL M2A2	-	-	-	-	-	-	12.49	320	0.004	-	-	-	-	-	-	-	-	-
PALLET MK3-0	-	-	-	-	-	-	179.56	9	0.002	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>0.715</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.512</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>Subtotal: Hardware Cost</i>	<i>-</i>	<i>-</i>	<i>0.715</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.512</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.090	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.120</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.115	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.115</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
Support - Quality Assurance Cost																		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E76701 / CUTTER HIGH EXPLOSIVE MK23 MOD 1 (POWDER ACTIVATE) [ML04]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)
Quality Assurance	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	0.715	-	-	-	391.85	1,914	0.750	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E76702 / CUTTER HIGH EXPLOSIVE MK24 MOD 1 (POWDER ACTIVATE) [ML05]

ID Code (A=Service Ready, B=Not Service Ready) : A				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)		-	-	942	-	-	-
Gross/Weapon System Cost (\$ in Millions)		2.168	-	0.750	-	-	-
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		2.168	-	0.750	-	-	-
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		2.168	-	0.750	-	-	-
<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)		-	-	796.18	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	2.168	-	-	-	460.76	942	0.434	-	-	-	-	-	-	-	-	-
OCTOL TY II CL 2 (70/30)	-	-	-	-	-	-	47.49	2,120	0.101	-	-	-	-	-	-	-	-	-
COMP CH-6	-	-	-	-	-	-	13.00	43	0.001	-	-	-	-	-	-	-	-	-
BOX METAL M2A2	-	-	-	-	-	-	12.49	471	0.006	-	-	-	-	-	-	-	-	-
PALLET MK3-0	-	-	-	-	-	-	179.56	4	0.001	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2.168	-	-	-	-	-	0.542	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	2.168	-	-	-	-	-	0.542	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.060	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	-	-	-	0.029	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.089	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.115	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.115	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E76702 / CUTTER HIGH EXPLOSIVE MK24 MOD 1 (POWDER ACTIVATE) [ML05]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)
Quality Assurance	-	-	-	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	2.168	-	-	-	796.18	942	0.750	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E76728 / Disrupter, Main Charge, MK 788-0 [DWDF]									
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:												
Resource Summary				Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Procurement Quantity (<i>Units in Each</i>)				-			79			97			84			-			84		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				0.879			0.059			0.061			0.062			-			0.062		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				0.879			0.059			0.061			0.062			-			0.062		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				0.879			0.059			0.061			0.062			-			0.062		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			746.84			628.87			738.10			-			738.10		
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 Cost																					
Recurring Cost																					
COMPLETE ROUND		-	-	0.879	95.18	79	0.008	96.95	97	0.009	98.25	84	0.008	-	-	-	98.25	84	0.008		
<i>Subtotal: Recurring Cost</i>		-	-	<i>0.879</i>	-	-	<i>0.008</i>	-	-	<i>0.009</i>	-	-	<i>0.008</i>	-	-	-	-	-	<i>0.008</i>		
<i>Subtotal: Hardware Cost</i>		-	-	0.879	-	-	0.008	-	-	0.009	-	-	0.008	-	-	-	-	-	0.008		
Support - Production Engineering Cost																					
Production Engineering		-	-	-	-	-	0.045	-	-	0.047	-	-	0.048	-	-	-	-	-	0.048		
<i>Subtotal: Support - Production Engineering Cost</i>		-	-	-	-	-	0.045	-	-	0.047	-	-	0.048	-	-	-	-	-	0.048		
Support - Quality Assurance Cost																					
Quality Assurance		-	-	-	-	-	0.006	-	-	0.005	-	-	0.006	-	-	-	-	-	0.006		
<i>Subtotal: Support - Quality Assurance Cost</i>		-	-	-	-	-	0.006	-	-	0.005	-	-	0.006	-	-	-	-	-	0.006		
Gross/Weapon System Cost		-	-	0.879	746.84	79	0.059	628.87	97	0.061	738.10	84	0.062	-	-	-	738.10	84	0.062		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types
		Item Number / Title [DODIC]: E78201 / CHARGE DEMO (38FT) Sheet Explosive, PBXW-202 [M980]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	35,290	34,785	-	34,785
Gross/Weapon System Cost (\$ in Millions)	4.114	-	1.200	1.200	-	1.200
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4.114	-	1.200	1.200	-	1.200
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4.114	-	1.200	1.200	-	1.200

(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)	-	-	34.00	34.50	-	34.50

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	4.114	-	-	-	30.57	35,290	1.079	30.98	34,785	1.078	-	-	-	30.98	34,785	1.078
<i>Subtotal: Recurring Cost</i>	-	-	<i>4.114</i>	-	-	-	-	-	<i>1.079</i>	-	-	<i>1.078</i>	-	-	-	-	-	<i>1.078</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>4.114</i>	-	-	-	-	-	<i>1.079</i>	-	-	<i>1.078</i>	-	-	-	-	-	<i>1.078</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.120	-	-	0.120	-	-	-	-	-	0.120
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	<i>0.120</i>	-	-	<i>0.120</i>	-	-	-	-	-	<i>0.120</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.001	-	-	0.002	-	-	-	-	-	0.002
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	<i>0.001</i>	-	-	<i>0.002</i>	-	-	-	-	-	<i>0.002</i>
Gross/Weapon System Cost	-	-	4.114	-	-	-	34.00	35,290	1.200	34.50	34,785	1.200	-	-	-	34.50	34,785	1.200

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E81302 / CAP BLASTING NON-ELEC, W/30 FT SHOCK TUBE [ML47]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	5,040	3,320	-	-	-
Gross/Weapon System Cost (\$ in Millions)	6.354	0.186	0.241	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	6.354	0.186	0.241	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6.354	0.186	0.241	-	-	-

(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)	-	36.90	72.59	-	-	-

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 Cost																		
Recurring Cost																		
Complete Round	-	-	6.354	23.41	5,040	0.118	26.59	3,320	0.088	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>6.354</i>	-	-	<i>0.118</i>	-	-	<i>0.088</i>	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	6.354	-	-	0.118	-	-	0.088	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	<i>0.050</i>	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.068	-	-	0.103	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.068</i>	-	-	<i>0.103</i>	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	6.354	36.90	5,040	0.186	72.59	3,320	0.241	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E81307 / IGNITER, TIME FUZE AND SHOCK TUBE M81 [MN08]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	-	64,080	19,058	24,209	-	24,209
Gross/Weapon System Cost (<i>\$ in Millions</i>)	16.375	0.510	0.300	0.306	-	0.306
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	16.375	0.510	0.300	0.306	-	0.306
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	16.375	0.510	0.300	0.306	-	0.306

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	7.96	15.74	12.64	-	12.64

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 Cost																		
Recurring Cost																		
Complete Round	-	-	16.375	4.83	64,080	0.310	5.44	19,058	0.104	6.89	24,209	0.167	-	-	-	6.89	24,209	0.167
<i>Subtotal: Recurring Cost</i>	-	-	<i>16.375</i>	-	-	<i>0.310</i>	-	-	<i>0.104</i>	-	-	<i>0.167</i>	-	-	-	-	-	<i>0.167</i>
<i>Subtotal: Hardware Cost</i>	-	-	16.375	-	-	0.310	-	-	0.104	-	-	0.167	-	-	-	-	-	0.167
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.200	-	-	0.196	-	-	0.139	-	-	-	-	-	0.139
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.200</i>	-	-	<i>0.196</i>	-	-	<i>0.139</i>	-	-	-	-	-	<i>0.139</i>
Gross/Weapon System Cost	-	-	16.375	7.96	64,080	0.510	15.74	19,058	0.300	12.64	24,209	0.306	-	-	-	12.64	24,209	0.306

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E99800 / APOBS Training Aid, Inert [MN84]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	196	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	1.971	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.971	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	1.971	-	-	-	-

(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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	8,244.35	196	1.616	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	1.616	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	1.616	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.355	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.355	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	196	1.971	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E99903 / Blast Cap, Non-Elec: 500Ft Minitube, M21 [MN88]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	-	6,040	4,605	4,508	-	4,508
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.082	0.753	0.779	1.200	-	1.200
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.082	0.753	0.779	1.200	-	1.200
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.082	0.753	0.779	1.200	-	1.200

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	124.67	169.16	266.19	-	266.19

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 Cost																		
Recurring Cost																		
Complete Round	-	-	12.082	93.07	6,040	0.562	96.36	4,605	0.444	100.73	4,508	0.454	-	-	-	100.73	4,508	0.454
<i>Subtotal: Recurring Cost</i>	-	-	<i>12.082</i>	-	-	<i>0.562</i>	-	-	<i>0.444</i>	-	-	<i>0.454</i>	-	-	-	-	-	<i>0.454</i>
<i>Subtotal: Hardware Cost</i>	-	-	12.082	-	-	0.562	-	-	0.444	-	-	0.454	-	-	-	-	-	0.454
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.191	-	-	0.335	-	-	0.746	-	-	-	-	-	0.746
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.191</i>	-	-	<i>0.335</i>	-	-	<i>0.746</i>	-	-	-	-	-	<i>0.746</i>
Gross/Weapon System Cost	-	-	12.082	124.67	6,040	0.753	169.16	4,605	0.779	266.19	4,508	1.200	-	-	-	266.19	4,508	1.200

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E99905 / Blast Cap, Non-Elec, 1000Ft Minitube, M23 [MN90]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	-	5,000	4,031	4,647	-	4,647
Gross/Weapon System Cost (<i>\$ in Millions</i>)	14.493	0.805	0.849	1.100	-	1.100
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14.493	0.805	0.849	1.100	-	1.100
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14.493	0.805	0.849	1.100	-	1.100

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	161.00	210.62	236.71	-	236.71

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 Cost																		
Recurring Cost																		
Complete Round	-	-	14.493	76.89	5,000	0.384	120.20	4,031	0.485	125.29	4,647	0.582	-	-	-	125.29	4,647	0.582
<i>Subtotal: Recurring Cost</i>	-	-	14.493	-	-	0.384	-	-	0.485	-	-	0.582	-	-	-	-	-	0.582
<i>Subtotal: Hardware Cost</i>	-	-	14.493	-	-	0.384	-	-	0.485	-	-	0.582	-	-	-	-	-	0.582
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.421	-	-	0.364	-	-	0.518	-	-	-	-	-	0.518
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.421	-	-	0.364	-	-	0.518	-	-	-	-	-	0.518
Gross/Weapon System Cost	-	-	14.493	161.00	5,000	0.805	210.62	4,031	0.849	236.71	4,647	1.100	-	-	-	236.71	4,647	1.100

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition	P-1 Line Item Number / Title: E34000 / Grenades, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	918.739	23.751	19.993	22.760	4.143	26.903	22.259	22.779	23.340	23.760	-	1,081.524
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	918.739	23.751	19.993	22.760	4.143	26.903	22.259	22.779	23.340	23.760	-	1,081.524
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	918.739	23.751	19.993	22.760	4.143	26.903	22.259	22.779	23.340	23.760	-	1,081.524

(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 budget line includes Grenades, All Types.

(E31900)FUZE GRENADE HAND PRAC M228

Fuze Grenade Hand Practice M228 is a pyrotechnic delay-igniting fuze (delay time of 4 to 5.5 seconds) for use with the M69 practice grenade body. The assembled grenade is identical in size, shape and weight to the M67 fragmentation hand grenade, and is used to learn and practice grenade throwing skills. The fuze contains a primer and a pyrotechnic delay column. A striker, striker spring, safety lever, safety pin with pull ring, safety clip, and igniter assembly are assembled to the body. This item is Code A, approved for service use.

(E32000)GRENADE HAND FRAG DELAY M67

Grenade Hand Fragmentation Delay M67 consists of a 2.5-inch diameter steel sphere that is designed to burst into numerous fragments when detonated. The grenade body is filled with 5.4 ounces of high explosive, Composition B. Each grenade is fitted with an M213 fuze that initiates the explosive charge 4 to 5.5 seconds after release of the safety lever. The M67 Hand Grenade provides the Warfighter with the capability to conduct pre-mobilization training and the capability to conduct close combat operations. This item is Code A, approved for service use.

(E34001)GRENADE HAND SMOKE GREEN M18

Grenade Hand Smoke Green M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a green smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.

(E34002)GRENADE HAND SMOKE YELLOW M18

Grenade Hand Smoke Yellow M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a yellow smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.

(E34003)GRENADE HAND SMOKE RED M18

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: E34000 / Grenades, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>Grenade Hand Smoke Red M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a red smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.</p> <p>(E34004)GRENADE HAND SMOKE VIOLET M18 Grenade Hand Smoke Violet M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a violet smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.</p> <p>(E69300)GRENADE HAND SMOKE WHITE M83 Grenade Hand Smoke (White) M83 provides the Warfighter the capability to generate white smoke for screening activities while conducting small unit operations. It is also used for ground-to-air signaling. This grenade is the tactical replacement for the M8 HC Smoke Grenade, which was found to be carcinogenic. The duration of smoke screen or signal is 25 to 70 seconds, average burn time. The grenade body is a cylinder of thin sheet metal. It is filled with non-toxic smoke mixture topped with a starter patch. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.</p>		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Number / Title:
E34000 / Grenades, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E31900 / FUZE GRENADE HAND PRAC M228 [G878]		A	705,165 / 251.628	- / 2.532	- / 2.592	- / 2.502	- / -	- / 2.502
P-5	E32000 / GRENADE HAND FRAG DELAY M67 [G881]	P-5a, P-21	A	663,116 / 258.492	155,353 / 9.936	105,854 / 8.238	214,009 / 11.833	99,735 / 4.143	313,744 / 15.976
P-5	E34001 / GRENADE HAND SMOKE GREEN M18 [G940]		A	160,751 / 151.076	51,241 / 2.618	48,557 / 2.790	44,336 / 2.875	- / -	44,336 / 2.875
P-5	E34002 / GRENADE HAND SMOKE YELLOW M18 [G945]		A	106,746 / 77.883	46,449 / 2.450	29,596 / 1.800	26,911 / 1.836	- / -	26,911 / 1.836
P-5	E34003 / GRENADE HAND SMOKE RED M18 [G950]		A	33,374 / 41.072	14,639 / 0.821	- / -	- / -	- / -	- / -
P-5	E34004 / GRENADE HAND SMOKE VIOLET M18 [G955]		A	213,857 / 46.618	22,621 / 1.341	11,051 / 0.700	10,085 / 0.714	- / -	10,085 / 0.714
P-5	E69300 / GRENADE HAND SMOKE (WHITE) M83 [G982]		A	- / 91.970	101,896 / 4.053	83,051 / 3.873	52,542 / 3.000	- / -	52,542 / 3.000
P-40	Total Gross/Weapon System Cost			- / 918.739	- / 23.751	- / 19.993	- / 22.760	- / 4.143	- / 26.903

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$22.760 million supports procurement of six variants of Grenades.

The FY 2017 OCO includes \$4.143 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiatives. The FY 2017 includes 1 variant of Grenades.

(E31900)FUZE GRENADE HAND PRAC M228
This is a training unique item not used in combat. FY 2017 procurement supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$2.502 million supports the Recapitalization of 504,510 fuzes.

(E32000)GRENADE HAND FRAG DELAY M67
This is a training standard item used in both training and combat. FY 2017 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$11.833 million supports the procurement of 214,009 grenades. "The FY 2017 OCO includes \$4.134 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurements include 99,735 Hand Frag Delay M67."

(E34001)GRENADE HAND SMOKE GREEN M18
This is a training standard item used in both training and combat. FY 2017 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$2.875 million supports the procurement of 44,336 grenades.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: E34000 / Grenades, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E34002)GRENADE HAND SMOKE YELLOW M18 This is a training standard item used in both training and combat. FY 2017 procurement supports annual training and builds war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.836 million supports the procurement of 26,911 grenades.</p> <p>(E34003)GRENADE HAND SMOKE RED M18 This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal.</p> <p>(E34004)GRENADE HAND SMOKE VIOLET M18 This is a training standard item used in both training and in combat. FY 2017 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.714 million supports the procurement of 10,085 grenades.</p> <p>(E69300)GRENADE HAND SMOKE WHITE M83 This is a training standard item used in both training and combat. FY 2017 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$3.000 million supports the procurement of 52,542 grenades.</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E34000 / Grenades, All Types	Item Number / Title [DODIC]: E31900 / FUZE GRENADE HAND PRAC M228 [G878]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	705,165	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	251.628	2.532	2.592	2.502	-	2.502
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	251.628	2.532	2.592	2.502	-	2.502
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	251.628	2.532	2.592	2.502	-	2.502

(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)	356.84	-	-	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	251.628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	251.628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	251.628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Safety	-	-	-	-	-	1.838	-	-	1.695	-	-	1.715	-	-	-	-	-	1.715
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	1.838	-	-	1.695	-	-	1.715	-	-	-	-	-	1.715
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.689	-	-	0.894	-	-	0.787	-	-	-	-	-	0.787
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.689	-	-	0.894	-	-	0.787	-	-	-	-	-	0.787
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.005	-	-	0.003	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.005	-	-	0.003	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	356.84	705,165	251.628	-	-	2.532	-	-	2.592	-	-	2.502	-	-	-	-	-	2.502

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E34000 / Grenades, All Types	Item Number / Title [DODIC]: E32000 / GRENADE HAND FRAG DELAY M67 [G881]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 <i>(Units in Each)</i>	663,116	155,353	105,854	214,009	99,735	313,744
Gross/Weapon System Cost <i>(\$ in Millions)</i>	258.492	9.936	8.238	11.833	4.143	15.976
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	258.492	9.936	8.238	11.833	4.143	15.976
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	258.492	9.936	8.238	11.833	4.143	15.976

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	389.81	63.96	77.82	55.29	41.54	50.92

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 <i>(\$)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>
Hardware Cost																		
Recurring Cost																		
COMPLETE GRENADE ^(f)	-	-	258.492	40.71	155,353	6.324	40.73	105,854	4.311	41.53	214,009	8.888	41.53	99,735	4.142	41.53	313,744	13.030
<i>Subtotal: Recurring Cost</i>	-	-	258.492	-	-	6.324	-	-	4.311	-	-	8.888	-	-	4.142	-	-	13.030
<i>Subtotal: Hardware Cost</i>	-	-	258.492	-	-	6.324	-	-	4.311	-	-	8.888	-	-	4.142	-	-	13.030
Support - Product Improvement Cost																		
Inensive Munitions	-	-	-	-	-	1.500	-	-	0.800	-	-	0.500	-	-	-	-	-	0.500
Reliability	-	-	-	-	-	-	-	-	0.800	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Product Improvement Cost</i>	-	-	-	-	-	1.500	-	-	1.600	-	-	0.500	-	-	-	-	-	0.500
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	2.103	-	-	2.321	-	-	2.438	-	-	-	-	-	2.438
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	2.103	-	-	2.321	-	-	2.438	-	-	-	-	-	2.438
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.009	-	-	0.006	-	-	0.007	-	-	0.001	-	-	0.008
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.009	-	-	0.006	-	-	0.007	-	-	0.001	-	-	0.008
Gross/Weapon System Cost	389.81	663,116	258.492	63.96	155,353	9.936	77.82	105,854	8.238	55.29	214,009	11.833	41.54	99,735	4.143	50.92	313,744	15.976

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E34000 / Grenades, All Types	Item Number / Title [DODIC]: E32000 / GRENADE HAND FRAG DELAY M67 [G881]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47			P-1 Line Item Number / Title: E34000 / Grenades, All Types				Item Number / Title [DODIC]: E32000 / GRENADE HAND FRAG DELAY M67 [G881]				

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
COMPLETE GRENADE ^(†)		2015	DAY & ZIMMERMANN LONE STAR / TEXARKANA, TX	C / FFP	ROCK ISLAND ARSENAL, IL	Dec 2015	Jun 2017	155,353	40.71	Y		
COMPLETE GRENADE ^(†)		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Sep 2017	105,854	40.73	Y		
COMPLETE GRENADE ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Sep 2018	313,744	41.53	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: E34000 / Grenades, All Types										Item Number / Title [DODIC]: E32000 / GRENADE HAND FRAG DELAY M67 [G881]									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2018										Fiscal Year 2019										BALANCE				
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G
COMPLETE GRENADE																														
	1	2015	ARMY	155.353	90.000	65.353	30.000	30.000	5.353																				-	
	2	2016	ARMY	105.854	10.000	95.854	10.000	15.000	20.000	25.000	25.854																		-	
	2	2016	AF (†)	2.091	2.091	-	-	-	-	-	-																		-	
	2	2016	Total	107.945	12.091	95.854	10.000	15.000	20.000	25.000	25.854																		-	
	2	2017	ARMY	313.744	-	313.744	-	-	-	-	-	-	-	-	-	-	30.000	33.099	50.000	50.000	50.000	50.000	50.000	50.645					-	
	2	2017	AF (†)	36.901	-	36.901	-	-	-	-	-	-	-	-	-	-	20.000	16.901	-	-	-	-	-	-					-	
	2	2017	Total	350.645	-	350.645	-	-	-	-	-	-	-	-	-	-	50.000	50.000	50.000	50.000	50.000	50.000	50.645					-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E34000 / Grenades, All Types
Item Number / Title [DODIC]: E32000 / GRENADE HAND FRAG DELAY M67 [G881]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	DAY & ZIMMERMANN LONE STAR - TEXARKANA, TX	30,000	50,000	100,000	8	8	18	26	6	6	18	24
2	TO BE SELECTED - TBS01	30,000	50,000	100,000	8	8	18	26	6	6	18	24

(‡) 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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E34000 / Grenades, All Types
		Item Number / Title [DODIC]: E34001 / GRENADE HAND SMOKE GREEN M18 [G940]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	160,751	51,241	48,557	44,336	-	44,336
Gross/Weapon System Cost (\$ in Millions)	151.076	2.618	2.790	2.875	-	2.875
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	151.076	2.618	2.790	2.875	-	2.875
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	151.076	2.618	2.790	2.875	-	2.875

(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)	939.81	51.09	57.46	64.85	-	64.85

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	151.076	30.16	51,241	1.545	31.65	48,732	1.542	35.94	44,336	1.593	-	-	-	35.94	44,336	1.593
FUZE,HAND GRENADE M201	-	-	-	7.96	53,291	0.424	9.06	50,681	0.459	8.78	46,109	0.405	-	-	-	8.78	46,109	0.405
Grenade, Metal Parts Set	-	-	-	1.90	55,340	0.105	2.24	52,631	0.118	1.95	47,882	0.093	-	-	-	1.95	47,882	0.093
<i>Subtotal: Recurring Cost</i>	-	-	<i>151.076</i>	-	-	<i>2.075</i>	-	-	<i>2.119</i>	-	-	<i>2.092</i>	-	-	-	-	-	<i>2.092</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>151.076</i>	-	-	<i>2.075</i>	-	-	<i>2.119</i>	-	-	<i>2.092</i>	-	-	-	-	-	<i>2.092</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.537	-	-	0.662	-	-	0.776	-	-	-	-	-	0.776
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.537</i>	-	-	<i>0.662</i>	-	-	<i>0.776</i>	-	-	-	-	-	<i>0.776</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.007	-	-	0.009	-	-	0.008	-	-	-	-	-	0.008
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	<i>0.007</i>	-	-	<i>0.009</i>	-	-	<i>0.008</i>	-	-	-	-	-	<i>0.008</i>
Gross/Weapon System Cost	939.81	160,751	151.076	51.09	51,241	2.618	57.46	48,557	2.790	64.85	44,336	2.875	-	-	-	64.85	44,336	2.875

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E34000 / Grenades, All Types	Item Number / Title [DODIC]: E34002 / GRENADE HAND SMOKE YELLOW M18 [G945]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	106,746	46,449	29,596	26,911	-	26,911
Gross/Weapon System Cost (\$ in Millions)	77.883	2.450	1.800	1.836	-	1.836
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	77.883	2.450	1.800	1.836	-	1.836
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	77.883	2.450	1.800	1.836	-	1.836

(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)	729.61	52.75	60.82	68.22	-	68.22

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	77.883	32.86	46,449	1.526	34.48	29,696	1.024	38.88	26,911	1.046	-	-	-	38.88	26,911	1.046
FUZE,HAND GRENADE M201	-	-	-	7.96	48,307	0.385	9.06	30,884	0.280	8.78	27,987	0.246	-	-	-	8.78	27,987	0.246
Grenade, Metal Parts Set	-	-	-	1.90	50,165	0.095	2.24	32,072	0.072	1.95	29,063	0.057	-	-	-	1.95	29,063	0.057
<i>Subtotal: Recurring Cost</i>	-	-	<i>77.883</i>	-	-	<i>2.006</i>	-	-	<i>1.376</i>	-	-	<i>1.349</i>	-	-	-	-	-	<i>1.349</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>77.883</i>	-	-	<i>2.006</i>	-	-	<i>1.376</i>	-	-	<i>1.349</i>	-	-	-	-	-	<i>1.349</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.436	-	-	0.414	-	-	0.480	-	-	-	-	-	0.480
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.436</i>	-	-	<i>0.414</i>	-	-	<i>0.480</i>	-	-	-	-	-	<i>0.480</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.008	-	-	0.010	-	-	0.007	-	-	-	-	-	0.007
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	<i>0.008</i>	-	-	<i>0.010</i>	-	-	<i>0.007</i>	-	-	-	-	-	<i>0.007</i>
Gross/Weapon System Cost	729.61	106,746	77.883	52.75	46,449	2.450	60.82	29,596	1.800	68.22	26,911	1.836	-	-	-	68.22	26,911	1.836

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E34000 / Grenades, All Types
		Item Number / Title [DODIC]: E34003 / GRENADE HAND SMOKE RED M18 [G950]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	33,374	14,639	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	41.072	0.821	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	41.072	0.821	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	41.072	0.821	-	-	-	-

(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)	1,230.66	56.08	-	-	-	-

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	41.072	35.37	14,639	0.518	-	-	-	-	-	-	-	-	-	-	-	-
FUZE,HAND GRENADE M201	-	-	-	7.96	15,225	0.121	-	-	-	-	-	-	-	-	-	-	-	-
Grenade, Metal Parts Set	-	-	-	1.90	15,810	0.030	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>41.072</i>	-	-	<i>0.669</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	<i>41.072</i>	-	-	<i>0.669</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.141	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.141</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.011	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	<i>0.011</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	1,230.66	33,374	41.072	56.08	14,639	0.821	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E34000 / Grenades, All Types	Item Number / Title [DODIC]: E34004 / GRENADE HAND SMOKE VIOLET M18 [G955]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	213,857	22,621	11,051	10,085	-	10,085
Gross/Weapon System Cost (\$ in Millions)	46.618	1.341	0.700	0.714	-	0.714
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	46.618	1.341	0.700	0.714	-	0.714
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	46.618	1.341	0.700	0.714	-	0.714

(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)	217.99	59.28	63.34	70.80	-	70.80

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	46.618	34.64	22,621	0.784	36.36	11,087	0.403	40.89	10,085	0.412	-	-	-	40.89	10,085	0.412
FUZE,HAND GRENADE M201	-	-	-	7.96	23,526	0.187	9.06	11,530	0.104	8.78	10,488	0.092	-	-	-	8.78	10,488	0.092
Grenade, Metal Parts Set	-	-	-	1.90	24,431	0.046	2.24	11,974	0.027	1.95	10,891	0.021	-	-	-	1.95	10,891	0.021
<i>Subtotal: Recurring Cost</i>	-	-	<i>46.618</i>	-	-	<i>1.017</i>	-	-	<i>0.534</i>	-	-	<i>0.526</i>	-	-	-	-	-	<i>0.526</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>46.618</i>	-	-	<i>1.017</i>	-	-	<i>0.534</i>	-	-	<i>0.526</i>	-	-	-	-	-	<i>0.526</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.314	-	-	0.157	-	-	0.183	-	-	-	-	-	0.183
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.314</i>	-	-	<i>0.157</i>	-	-	<i>0.183</i>	-	-	-	-	-	<i>0.183</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.010	-	-	0.009	-	-	0.006	-	-	-	-	-	0.006
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	<i>0.010</i>	-	-	<i>0.009</i>	-	-	<i>0.006</i>	-	-	-	-	-	<i>0.006</i>
Gross/Weapon System Cost	217.99	213,857	46.618	59.28	22,621	1.341	63.34	11,051	0.700	70.80	10,085	0.714	-	-	-	70.80	10,085	0.714

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E34000 / Grenades, All Types	Item Number / Title [DODIC]: E69300 / GRENADE HAND SMOKE (WHITE) M83 [G982]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	101,896	83,051	52,542	-	52,542
Gross/Weapon System Cost (\$ in Millions)	91.970	4.053	3.873	3.000	-	3.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	91.970	4.053	3.873	3.000	-	3.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	91.970	4.053	3.873	3.000	-	3.000

(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)	-	39.78	46.63	57.10	-	57.10

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	-	20.17	101,896	2.055	21.17	83,445	1.767	25.34	52,542	1.331	-	-	-	25.34	52,542	1.331
FUZE,HAND GRENADE M201	-	-	-	7.96	105,972	0.844	9.06	86,783	0.786	8.78	54,643	0.480	-	-	-	8.78	54,643	0.480
GRENADE, METAL PARTS SET	-	-	-	1.90	110,048	0.209	2.24	90,121	0.202	1.95	56,745	0.111	-	-	-	1.95	56,745	0.111
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.108	-	-	2.755	-	-	1.922	-	-	-	-	-	1.922
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	3.108	-	-	2.755	-	-	1.922	-	-	-	-	-	1.922
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	91.970	-	-	0.936	-	-	1.107	-	-	1.070	-	-	-	-	-	1.070
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	91.970	-	-	0.936	-	-	1.107	-	-	1.070	-	-	-	-	-	1.070
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.008	-	-	0.011	-	-	0.008	-	-	-	-	-	0.008
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.008	-	-	0.011	-	-	0.008	-	-	-	-	-	0.008

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E34000 / Grenades, All Types	Item Number / Title [DODIC]: E69300 / GRENADE HAND SMOKE (WHITE) M83 [G982]
ID Code (A=Service Ready, B=Not Service Ready) : A		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	-	-	91.970	39.78	101,896	4.053	46.63	83,051	3.873	57.10	52,542	3.000	-	-	-	57.10	52,542	3.000

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition	P-1 Line Item Number / Title: E46900 / Signals, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	702.959	12.082	17.761	10.666	1.852	12.518	11.641	13.314	13.015	12.976	-	796.266
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	702.959	12.082	17.761	10.666	1.852	12.518	11.641	13.314	13.015	12.976	-	796.266
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	702.959	12.082	17.761	10.666	1.852	12.518	11.641	13.314	13.015	12.976	-	796.266

(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 budget line includes Signals, All Types.

(E49100) Flare, AC Countermeasure, M206 Magnesium Teflon IR

The M206 flares are part of a family of advanced IR decoy flares designed for use by Army helicopters and fixed wing aircraft to meet advanced threats in current and future operational environments. This flare is a Magnesium Teflon Viton flare. When used together with the M212, a spectrally matched flare, and the M211, a pyrophoric alloy material payload that reacts with air to emit intense IR radiation, it provides protection against a wide range of surface to air threats. This item is Code A, approved for service use.

(E88900) Flare AC Cntermeasure M211 Pyrophoric Msl IR Decoy

These flares are part of the advanced infrared (IR) decoy/flares design, which are dispensed from Army aircraft to protect against advanced Man-portable Air Defense Systems (MANPADS) in current and future operational environments. The M211 uses a special high surface area metal foil, which rapidly oxidizes when exposed to oxygen. When one of the flares is dispensed from the host aircraft, the special pyrophoric material payload reacts with air to emit intense IR radiation that is not visible to the naked eye. The IR radiation diverts heat-seeking missiles away from the aircraft. When used together with the M212, a spectrally matched flare, and the M206, a Magnesium Teflon Viton flare, the flares provide protection against a wide range MANPADS. This item is Code A, approved for service use.

(E42010) Flares And Markers, Watercraft

The marker is launched from high-speed aircraft or helicopters in either day or night to mark the course of enemy submarines in antisubmarine warfare operations. They can be used for any type of air to sea surface marking that are referenced by smoke and flame. This item is Code A, approved for service use.

(E44600) Signal Kit Personnel Distress Red FP AP/25S-5

The Personnel Distress Signal Kit (Red) is primarily used by downed airmen or others exposed to emergency escape and evasion situations. There are seven (7) red signals in a Kit, one (1) hand fired launcher, and one (1) bandoleer assembly. The signals are propelled by a rocket motor with a time delay and are capable of penetrating foliage. This item is Code A, approved for service use.

(E46400) Signal, Hand Held Red Star Cluster M158

The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M158 is the red star cluster signal used primarily as a distress signal. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: E46900 / Signals, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>(E46500) Signal, Hand Held White Star Cluster M159 The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M159 is a white star cluster used primarily for signaling. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.</p> <p>(E46800) Signal, Hand Held White Parachute Flare M127 The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M127A1 is a white parachute flare used primarily for illumination. The flare burns for approximately 30 seconds. This item is Code A, approved for service use.</p> <p>(E47000) Signal, Hand Held Green Star Cluster M125A1 The Family of Hand Held Signals which are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. M125A1 is a green star cluster signal used for signaling and illuminating missions. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.</p> <p>(E49500) FUSEE WARNING RR RED 20 MIN M72 COTS item. Item is a red railroad or highway flare and available commercially. The purpose of the M72 is to outline emergency airfield boundaries under poor visibility conditions, as well as for recognition and signaling along railroads rights-of-way. This item is Code A, approved for service use.</p> <p>(E57600) CTG 25.4 MM DECOY CHAFF M839 SERIES (CTG+CHAFF) The M839/RR170 Series cartridge is a decoy designed for use by Army helicopters and fixed wing aircraft against radar controlled weapon systems. The M839/RR170 Series is in a 1x1x8 form factor in a plastic case. The decoy payload is composed of strands of aluminum coated glass fibers. The decoy consists of a piston, several bundles of chaff dipoles, and a felt spacer and is sealed with a plastic end cap. The M839/RR170 Series is delivered with the BBU-35/B and/or M796 impulse cartridge. The cartridge is fired by electrical initiation of the impulse cartridge, where the payload blooms into a radar reflecting cloud that breaks lock on by radar controlled weapons systems. This item is Code A, approved for service use.</p> <p>(E57605) CTG, 25.4mm, Decoy,Chaff,RR170 (w/Mk1 impulse ctg) The RR170 is part of a family of advanced Radar Frequency (RF) chaff decoys designed for use by both rotary and fixed wing Army aircraft to defeat advance threats in current and future operational environments. The RR170 payload is made up of strands of aluminum coated glass fibers and loaded into a plastic outer case. When chaff is dispensed, it generates a reflected return signal which obstructs/confuses enemy radar and prevents Army aircraft detection. When used together, the RR170 and M839, provides protection against a wide range of surface-to-air missile (SAM) threats. This item is Code A, approved for service use.</p> <p>(E62900) SMOKE POT PRACTICE M8 The M8 Smoke Pot is a five-gallon metal pail containing about 25 pounds of environmentally acceptable smoke mixture. It is initiated by a pyrotechnic delay igniting fuze. After ignition and about a 25-second delay, a dense smoke cloud is produced for screening purposes to conceal troop, vehicle, or other march movements. It is deployed in a similar manner as the service smoke pots, M4 series and M5. It is used by the individual Soldier in squad, company and battalion units. This item is Code A, approved for service use.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Number / Title:
E46900 / Signals, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E42010 / FLARES AND MARKERS, WATERCRAFT [L580]		A	- / -	1,053 / 0.985	2,753 / 1.000	- / -	- / -	- / -
P-5	E44600 / SIGNAL KIT PERSONNEL DISTRESS RED FP [L119]		A	- / 52.899	500 / 0.085	- / -	- / -	- / -	- / -
P-5	E46400 / Signal, Hand Held Red Star Cluster M158 [L306]		A	- / 37.078	- / -	17,409 / 1.539	- / -	- / -	- / -
P-5	E46500 / Signal, Hand Held White Star Cluster M159 [L307]		A	- / 32.622	- / -	- / -	6,806 / 0.654	- / -	6,806 / 0.654
P-5	E46800 / Signal, Hand Held White Parachute Flare M127A1 [L312]		A	- / 139.108	- / -	28,412 / 2.490	10,381 / 1.000	26,362 / 1.852	36,743 / 2.852
P-5	E47000 / Signal, Hand Held Green Star Cluster M125A1 [L314]		A	- / 53.207	- / -	- / -	6,756 / 0.649	- / -	6,756 / 0.649
P-5	E49100 / Flare, AC Countermeasure, M206 Magnesium Teflon IR [L410]		A	- / 73.659	29,845 / 2.084	109,371 / 4.232	6,046 / 0.236	- / -	6,046 / 0.236
P-5	E49500 / FUSEE WARNING RR RED 20 MIN M72 [L508]		A	- / 0.409	- / -	- / -	23,688 / 0.177	- / -	23,688 / 0.177
P-5	E57600 / CTG, 25.4MM, DECOY, CHAFF, M839 Series (Ctg+Chaff) [A965]		A	- / 6.550	- / -	- / -	26,958 / 1.200	- / -	26,958 / 1.200
P-5	E57605 / CTG, 25.4mm, Decoy,Chaff,RR170 (w/Mk1 impulse ctg) [LY07]		A	- / -	- / -	26,595 / 0.500	33,332 / 0.750	- / -	33,332 / 0.750
P-5	E62900 / SMOKE POT PRACTICE M8 [K511]	P-5a, P-21	A	2,562 / 49.235	1,980 / 2.957	- / -	5,612 / 6.000	- / -	5,612 / 6.000
P-5	E88900 / Flare AC Cntermeasure M211 Pyrophoric Msl IR Decoy [LA14]	P-5a, P-21	A	- / 258.192	31,411 / 5.971	59,026 / 8.000	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 702.959	- / 12.082	- / 17.761	- / 10.666	- / 1.852	- / 12.518

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

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

Justification:
FY 2017 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$10.666 million supports production of 8 variants of Signals.
FY 2017 OCO procurement dollars in the amount of \$1.852 million supports production of 1 variant of Signals.

(E42010) Flares and Markers, Watercraft
This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal.

(E44600) Signal Kit Personnel Distress Red FP
This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

(E46400) Signal, Hand Held Red Star Cluster M158

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: E46900 / Signals, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army procurement goals.</p> <p>(E46500) Signal, Hand Held White Star Cluster M159 This is a training standard item used in both training and in combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.654 million supports the procurement of 6,806 Signals</p> <p>(E46800) Signal, Hand Held White Parachute Flare M127A1 This is a training standard item used both training and combat. The request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.000 million supports the procurement of 10,381 Signals. The FY 2017 OCO includes \$1.852 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurements include the procurement of 26,362 Signals.</p> <p>(E47000) Signal, Hand Held Green Star Cluster M125A1 This is a training standard item used in both training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.649 million supports the procurement of 6,756 Signals</p> <p>(E49100) Flare, AC Countermeasure, M206 Magnesium Teflon IR This is a training standard item used in both training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.236 million supports the procurement of 6,046 flares.</p> <p>(E49500) FUSEE WARNING RR RED 20 MIN M72 This is a training standard item used in both training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.177 million supports the procurement of 23,688 Signals</p> <p>(E57600) CTG, 25.4mm, Decoy,Chaff,M839 Series (Ctg+Chaff) This is a training standard item used in both training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.200 million supports 26,958 decoys.</p> <p>(E57605) CTG, 25.4mm, Decoy,Chaff,RR170 (w/Mk1 impulse ctg) This is a training standard item used in both training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.750 million supports the procurement of 33,332 decoys.</p> <p>(E62900) Smoke Pot Practice M8 This is a training standard item used in both training and combat. FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$6.000 million supports the procurement of 5,612 Smokepots.</p> <p>(E88900) AC Countermeasure M211Pyrophoric Msl IR Decoy This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal.</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E42010 / FLARES AND MARKERS, WATERCRAFT [L580]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	1,053	2,753	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.985	1.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.985	1.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.985	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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	207.78	1,053	0.219	222.91	2,753	0.614	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>0.219</i>	-	-	<i>0.614</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	<i>0.219</i>	-	-	<i>0.614</i>	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.175	-	-	0.179	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	<i>0.175</i>	-	-	<i>0.179</i>	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.591	-	-	0.207	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.591</i>	-	-	<i>0.207</i>	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	1,053	0.985	-	2,753	1.000	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E44600 / SIGNAL KIT PERSONNEL DISTRESS RED FP [L119]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	500	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	52.899	0.085	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	52.899	0.085	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	52.899	0.085	-	-	-	-

(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 Cost																		
Non Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	52.899	170.00	500	0.085	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	52.899	-	-	0.085	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	52.899	-	-	0.085	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	52.899	-	500	0.085	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E46400 / Signal, Hand Held Red Star Cluster M158 [L306]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	17,409	-	-	-
Gross/Weapon System Cost (\$ in Millions)	37.078	-	1.539	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	37.078	-	1.539	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	37.078	-	1.539	-	-	-

(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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	36.013	-	-	-	67.01	17,409	1.167	-	-	-	-	-	-	-	-	-
Box Metal M548	-	-	0.110	-	-	-	40.94	733	0.030	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	36.123	-	-	-	-	-	1.197	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	36.123	-	-	-	-	-	1.197	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.040	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.040	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.939	-	-	-	-	-	0.299	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.939	-	-	-	-	-	0.299	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.016	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.016	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	37.078	-	-	-	-	17,409	1.539	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E46500 / Signal, Hand Held White Star Cluster M159 [L307]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	-	6,806	-	6,806
Gross/Weapon System Cost (\$ in Millions)	32.622	-	-	0.654	-	0.654
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	32.622	-	-	0.654	-	0.654
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	32.622	-	-	0.654	-	0.654

(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)	-	-	-	96.09	-	96.09

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	32.000	-	-	-	-	-	-	67.91	6,806	0.462	-	-	-	67.91	6,806	0.462
Box Metal M548	-	-	0.622	-	-	-	-	-	-	43.53	286	0.012	-	-	-	43.53	286	0.012
<i>Subtotal: Recurring Cost</i>	-	-	<i>32.622</i>	-	-	-	-	-	-	-	-	<i>0.475</i>	-	-	-	-	-	<i>0.475</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>32.622</i>	-	-	-	-	-	-	-	-	<i>0.475</i>	-	-	-	-	-	<i>0.475</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.176	-	-	-	-	-	0.176
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.176</i>	-	-	-	-	-	<i>0.176</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.003</i>	-	-	-	-	-	<i>0.003</i>
Gross/Weapon System Cost	-	-	32.622	-	-	-	-	-	-	96.09	6,806	0.654	-	-	-	96.09	6,806	0.654

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E46800 / Signal, Hand Held White Parachute Flare M127A1 [L312]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	28,412	10,381	26,362	36,743
Gross/Weapon System Cost (\$ in Millions)	139.108	-	2.490	1.000	1.852	2.852
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	139.108	-	2.490	1.000	1.852	2.852
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	139.108	-	2.490	1.000	1.852	2.852

(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)	-	-	87.64	96.33	70.25	77.62

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	139.003	-	-	-	67.52	28,412	1.918	68.41	10,381	0.710	68.41	26,362	1.803	68.41	36,743	2.514
Box Metal M548	-	-	0.105	-	-	-	40.94	1,196	0.049	43.53	437	0.019	43.53	1,109	0.048	43.53	1,546	0.067
Subtotal: Recurring Cost	-	-	139.108	-	-	-	-	-	1.967	-	-	0.729	-	-	1.852	-	-	2.581
Subtotal: Hardware Cost	-	-	139.108	-	-	-	-	-	1.967	-	-	0.729	-	-	1.852	-	-	2.581
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.034	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.034	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.486	-	-	0.269	-	-	-	-	-	0.269
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	0.486	-	-	0.269	-	-	-	-	-	0.269
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Gross/Weapon System Cost	-	-	139.108	-	-	-	87.64	28,412	2.490	96.33	10,381	1.000	70.25	26,362	1.852	77.62	36,743	2.852

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E47000 / Signal, Hand Held Green Star Cluster M125A1 [L314]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	-	6,756	-	6,756
Gross/Weapon System Cost (\$ in Millions)	53.207	-	-	0.649	-	0.649
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	53.207	-	-	0.649	-	0.649
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	53.207	-	-	0.649	-	0.649

(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)	-	-	-	96.06	-	96.06

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 Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap)	-	-	52.187	-	-	-	-	-	-	67.91	6,756	0.459	-	-	-	67.91	6,756	0.459
Box Metal M548	-	-	0.105	-	-	-	-	-	-	43.53	284	0.012	-	-	-	43.53	284	0.012
<i>Subtotal: Recurring Cost</i>	-	-	<i>52.292</i>	-	-	-	-	-	-	-	-	<i>0.471</i>	-	-	-	-	-	<i>0.471</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>52.292</i>	-	-	-	-	-	-	-	-	<i>0.471</i>	-	-	-	-	-	<i>0.471</i>
Support - Production Engineering Cost																		
Production Engineering	-	-	0.903	-	-	-	-	-	-	-	-	0.175	-	-	-	-	-	0.175
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<i>0.903</i>	-	-	-	-	-	-	-	-	<i>0.175</i>	-	-	-	-	-	<i>0.175</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.012	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	<i>0.012</i>	-	-	-	-	-	-	-	-	<i>0.003</i>	-	-	-	-	-	<i>0.003</i>
Gross/Weapon System Cost	-	-	53.207	-	-	-	-	-	-	96.06	6,756	0.649	-	-	-	96.06	6,756	0.649

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E49100 / Flare, AC Countermeasure, M206 Magnesium Teflon IR [L410]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	29,845	109,371	6,046	-	6,046
Gross/Weapon System Cost (\$ in Millions)	73.659	2.084	4.232	0.236	-	0.236
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	73.659	2.084	4.232	0.236	-	0.236
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	73.659	2.084	4.232	0.236	-	0.236

(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)	-	-	-	39.03	-	39.03

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	72.892	32.11	29,845	0.958	36.29	109,371	3.969	34.27	6,046	0.207	-	-	-	34.27	6,046	0.207
Subtotal: Recurring Cost	-	-	72.892	-	-	0.958	-	-	3.969	-	-	0.207	-	-	-	-	-	0.207
Subtotal: Hardware Cost	-	-	72.892	-	-	0.958	-	-	3.969	-	-	0.207	-	-	-	-	-	0.207
Support - Production Engineering Cost																		
Production Engineering	-	-	0.759	-	-	0.064	-	-	0.262	-	-	0.029	-	-	-	-	-	0.029
Subtotal: Support - Production Engineering Cost	-	-	0.759	-	-	0.064	-	-	0.262	-	-	0.029	-	-	-	-	-	0.029
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.008	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.008	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	1.062	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	1.062	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	73.659	-	29,845	2.084	-	109,371	4.232	39.03	6,046	0.236	-	-	-	39.03	6,046	0.236

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E49500 / FUSEE WARNING RR RED 20 MIN M72 [L508]

ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)		-	-	-	23,688	-	23,688
Gross/Weapon System Cost (<i>\$ in Millions</i>)		0.409	-	-	0.177	-	0.177
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		0.409	-	-	0.177	-	0.177
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		0.409	-	-	0.177	-	0.177
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)		-	-	-	7.47	-	7.47

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	0.409	-	-	-	-	-	-	6.72	23,688	0.159	-	-	-	6.72	23,688	0.159
<i>Subtotal: Recurring Cost</i>	-	-	0.409	-	-	-	-	-	-	-	-	0.159	-	-	-	-	-	0.159
<i>Subtotal: Hardware Cost</i>	-	-	0.409	-	-	-	-	-	-	-	-	0.159	-	-	-	-	-	0.159
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.018	-	-	-	-	-	0.018
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.018	-	-	-	-	-	0.018
Gross/Weapon System Cost	-	-	0.409	-	-	-	-	-	-	7.47	23,688	0.177	-	-	-	7.47	23,688	0.177

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E46900 / Signals, All Types
		Item Number / Title [DODIC]: E57600 / CTG, 25.4MM, DECOY, CHAFF, M839 Series (Ctg+Chaff) [A965]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	-	26,958	-	26,958
Gross/Weapon System Cost (\$ in Millions)	6.550	-	-	1.200	-	1.200
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	6.550	-	-	1.200	-	1.200
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6.550	-	-	1.200	-	1.200

(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)	-	-	-	44.51	-	44.51

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	-	-	-	16.76	26,958	0.452	-	-	-	16.76	26,958	0.452
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.452	-	-	-	-	-	0.452
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.452	-	-	-	-	-	0.452
Support - Production Engineering Cost																		
Production Engineering	-	-	6.536	-	-	-	-	-	-	-	-	0.745	-	-	-	-	-	0.745
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	6.536	-	-	-	-	-	-	-	-	0.745	-	-	-	-	-	0.745
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.014	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.014	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
Gross/Weapon System Cost	-	-	6.550	-	-	-	-	-	-	44.51	26,958	1.200	-	-	-	44.51	26,958	1.200

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E57605 / CTG, 25.4mm, Decoy,Chaff,RR170 (w/Mk1 impulse ctg) [LY07]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	26,595	33,332	-	33,332
Gross/Weapon System Cost (\$ in Millions)	-	-	0.500	0.750	-	0.750
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	0.500	0.750	-	0.750
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	0.500	0.750	-	0.750

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	22.50	-	22.50

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	16.92	26,595	0.450	17.25	33,332	0.575	-	-	-	17.25	33,332	0.575
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.450	-	-	0.575	-	-	-	-	-	0.575
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	0.450	-	-	0.575	-	-	-	-	-	0.575
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.050	-	-	0.175	-	-	-	-	-	0.175
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.050	-	-	0.175	-	-	-	-	-	0.175
Gross/Weapon System Cost	-	-	-	-	-	-	-	26,595	0.500	22.50	33,332	0.750	-	-	-	22.50	33,332	0.750

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E46900 / Signals, All Types
		Item Number / Title [DODIC]: E62900 / SMOKE POT PRACTICE M8 [K511]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	2,562	1,980	-	5,612	-	5,612
Gross/Weapon System Cost (\$ in Millions)	49.235	2.957	-	6.000	-	6.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	49.235	2.957	-	6.000	-	6.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	49.235	2.957	-	6.000	-	6.000

(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)	19,217.41	1,493.43	-	1,069.14	-	1,069.14

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	49.235	537.24	1,980	1.064	-	-	-	485.12	5,612	2.722	-	-	-	485.12	5,612	2.722
FUZE, SMOKE POT, FLOATING M208 ^(†)	-	-	-	90.68	2,059	0.187	-	-	-	64.88	5,836	0.379	-	-	-	64.88	5,836	0.379
INNER COVER ASSEMBLY ^(†)	-	-	-	56.70	2,277	0.129	-	-	-	57.78	6,453	0.373	-	-	-	57.78	6,453	0.373
OUTER COVER ASSEMBLY ^(†)	-	-	-	71.29	2,277	0.162	-	-	-	72.67	6,453	0.469	-	-	-	72.67	6,453	0.469
CONTAINER, USED ON SMOKE POT M8 ^(†)	-	-	-	66.26	2,277	0.151	-	-	-	67.65	6,453	0.437	-	-	-	67.65	6,453	0.437
<i>Subtotal: Recurring Cost</i>	-	-	49.235	-	-	1.693	-	-	-	-	-	4.379	-	-	-	-	-	4.379
<i>Subtotal: Hardware Cost</i>	-	-	49.235	-	-	1.693	-	-	-	-	-	4.379	-	-	-	-	-	4.379
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.251	-	-	-	-	-	1.612	-	-	-	-	-	1.612
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	1.251	-	-	-	-	-	1.612	-	-	-	-	-	1.612
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.011	-	-	-	-	-	0.008	-	-	-	-	-	0.008

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E62900 / SMOKE POT PRACTICE M8 [K511]
ID Code (A=Service Ready, B=Not Service Ready) : A		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: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.011	-	-	-	-	-	0.008	-	-	-	-	-	0.008
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	19,217.41	2,562	49.235	1,493.43	1,980	2.957	-	-	-	1,069.14	5,612	6.000	-	-	-	1,069.14	5,612	6.000

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47			P-1 Line Item Number / Title: E46900 / Signals, All Types				Item Number / Title [DODIC]: E62900 / SMOKE POT PRACTICE M8 [K511]				

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
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2015	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	Jun 2015	Nov 2016	1,980	537.24	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2017	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	Mar 2017	Aug 2018	5,612	485.12	Y		
FUZE, SMOKE POT, FLOATING M208		2015	CHEMRING ORDNANCE, INC. / PERRY, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2015	Jan 2016	2,059	90.68	Y		
FUZE, SMOKE POT, FLOATING M208		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Jan 2018	5,836	64.88	Y		
INNER COVER ASSEMBLY		2015	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Dec 2015	2,277	56.70	Y		
INNER COVER ASSEMBLY		2017	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	May 2017	May 2018	6,453	57.78	Y		
OUTER COVER ASSEMBLY		2015	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Dec 2015	2,277	71.29	Y		
OUTER COVER ASSEMBLY		2017	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Dec 2017	6,453	72.67	Y		
CONTAINER, USED ON SMOKE POT M8		2015	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Dec 2015	2,277	66.26	Y		
CONTAINER, USED ON SMOKE POT M8		2017	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Dec 2017	6,453	67.65	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army																							Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: E46900 / Signals, All Types										Item Number / Title [DODIC]: E62900 / SMOKE POT PRACTICE M8 [K511]										
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015										Fiscal Year 2016										BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G
LOAD, ASSEMBLE, PACK (LAP)																														
1		2015	ARMY	1,980	-	1,980											A	-	-	-	-	-	-	-	-	-	-	-	-	1,980
1		2017	ARMY	5,612	-	5,612																								5,612
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: E46900 / Signals, All Types										Item Number / Title [DODIC]: E62900 / SMOKE POT PRACTICE M8 [K511]									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017														Fiscal Year 2018														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 6	B A L 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					
LOAD, ASSEMBLE, PACK (LAP)																																			
1		2015	ARMY	1,980	-	1,980	-	1,576	404																				-						
1		2017	ARMY	5,612	-	5,612																							612						

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Exhibit P-21, Production Schedule: PB 2017 Army																	Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47											P-1 Line Item Number / Title: E46900 / Signals, All Types											Item Number / Title [DODIC]: E62900 / SMOKE POT PRACTICE M8 [K511]									

Cost Elements <i>(Units in Each)</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	
LOAD, ASSEMBLE, PACK (LAP)																																
	1	2015	ARMY	1,980	1,980	-																									-	
	1	2017	ARMY	5,612	5,000	612	612																									-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E46900 / Signals, All Types
		Item Number / Title [DODIC]: E62900 / SMOKE POT PRACTICE M8 [K511]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	1,000	2,500	6,000	8	8	20	28	6	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).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E46900 / Signals, All Types	Item Number / Title [DODIC]: E88900 / Flare AC Cntermeasure M211 Pyrophoric Msl IR Decoy [LA14]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 <i>(Units in Each)</i>	-	31,411	59,026	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	258.192	5.971	8.000	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	258.192	5.971	8.000	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	258.192	5.971	8.000	-	-	-

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

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

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

Cost Elements	Prior Years			FY 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 Cost																		
Recurring Cost																		
COMPLETE FLARE ^(†)	-	-	258.192	110.11	31,411	3.459	122.22	59,026	7.214	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	258.192	-	-	3.459	-	-	7.214	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	258.192	-	-	3.459	-	-	7.214	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.613	-	-	0.786	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.613	-	-	0.786	-	-	-	-	-	-	-	-	-
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	1.899	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	1.899	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	258.192	-	31,411	5.971	-	59,026	8.000	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47			P-1 Line Item Number / Title: E46900 / Signals, All Types				Item Number / Title [DODIC]: E88900 / Flare AC Cntermeasure M211 Pyrophoric Msl IR Decoy [LA14]					

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
COMPLETE FLARE ^(†)		2015	ALLOY SURFACES COMPANY, INC. / CHESTER, PA	C / FFP	PICATINNY ARSENAL, NJ	Jun 2015	Oct 2016	11,993	110.11	Y		
COMPLETE FLARE ^(†)		2015	ARMTEC COUNTERMEASURES / COACHELLA, CA	C / FFP	PICATINNY ARSENAL, NJ	Jun 2015	Mar 2017	19,418	110.11	Y		
COMPLETE FLARE ^(†)		2016	ALLOY SURFACES COMPANY, INC. / CHESTER, PA	C / FFP	PICATINNY ARSENAL, NJ	Mar 2016	Mar 2017	59,026	122.22	Y		

^(†) indicates the presence of a P-21

Remarks:

Date of first deliveries for FY2014 and FY2015 are based on contract awarded June 2015.
FY2016 is a delivery order to an existing contract

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Exhibit P-21, Production Schedule: PB 2017 Army											Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: E46900 / Signals, All Types										Item Number / Title [DODIC]: E88900 / Flare AC Cntermeasure M211 Pyrophoric Msl IR Decoy [LA14]									

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	S E P					
COMPLETE FLARE																																			
	1	2015	ARMY	11.993	-	11.993																													
	2	2015	ARMY	19.418	-	19.418																													
	1	2016	ARMY	59.026	-	59.026																													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: E46900 / Signals, All Types										Item Number / Title [DODIC]: E88900 / Flare AC Cntermeasure M211 Pyrophoric Msl IR Decoy [LA14]									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
COMPLETE FLARE																															
	1	2015	ARMY	11.993	-	11.993	6.000	5.993																					-		
	2	2015	ARMY	19.418	-	19.418	-	-	-	-	-	.841	5.184	5.184	5.184	3.025													-		
	1	2016	ARMY	59.026	-	59.026	-	-	-	-	-	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	5.026							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47		P-1 Line Item Number / Title: E46900 / Signals, All Types
		Item Number / Title [DODIC]: E88900 / Flare AC Cntermeasure M211 Pyrophoric Msl IR Decoy [LA14]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	ALLOY SURFACES COMPANY, INC. - CHESTER, PA	5,000	6,000	80,000	8	8	15	23	6	6	12	18
2	ARMTEC COUNTERMEASURES - COACHELLA, CA	5,000	6,000	80,000	8	8	15	23	6	6	12	18

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition	P-1 Line Item Number / Title: E51200 / Simulators, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	229.134	8.287	9.749	7.412	-	7.412	16.586	15.253	17.187	17.663	-	321.271
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	229.134	8.287	9.749	7.412	-	7.412	16.586	15.253	17.187	17.663	-	321.271
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	229.134	8.287	9.749	7.412	-	7.412	16.586	15.253	17.187	17.663	-	321.271

(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 budget line includes Simulators, All Types.

(E49700) M115A2 Artillery Ground Burst Simulator is a hand thrown device that is used in training to simulate battlefield noise and effects (shell in flight and ground explosion) during troop maneuvers. The simulator has a 6-10 second delay followed by a 2-4 second whistle ending with a flash and loud report; the surface danger zone is 35 meters. This item is Code A, approved for service use.

(E50200) M116A1 Hand Grenade Simulator is a hand-thrown device and is used in training to simulate battlefield noise and effects during troop maneuvers. It has a 5 to 10 second delay and a 15 meter surface danger zone. This item is Code A, approved for service use.

(E70600) M22 Anti-Tank Weapon Effect Signature Simulator (ATWESS) Guided Missile (GM) Rocket Simulator is used to simulate the TOW, DRAGON or VIPER, including report, flash and smoke through use of an adapter. It is compatible with the Multiple Integrated Laser Engagement System (MILES). This item is Code A, approved for service use.

(E88404) Simulators, Non-standard, Special Effects for CTCs Black smoke cartridge to simulate target kill. This item is launched with Omega 60 Force on target. This item is in development which is part of the Special Use Ammo Family. After Development, this item will be Code A, approved for service use.

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Number / Title:
E51200 / Simulators, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E49700 / SIMULATOR PROJ GND BURST M115A2 [L594]		A	- / 107.965	129,751 / 3.242	135,368 / 3.365	84,991 / 2.323	- / -	84,991 / 2.323
P-5	E50200 / SIMULATOR HAND GRENADE M116A1 [L601]		A	- / 80.589	178,778 / 3.961	226,813 / 4.884	69,723 / 2.210	- / -	69,723 / 2.210
P-5	E70600 / SIMULATOR ANTITANK GM RKT M22 (ATWESS) [LA77]		A	- / 40.580	5,700 / 1.084	9,257 / 1.500	92,812 / 1.900	- / -	92,812 / 1.900
P-5	E88404 / SIMULATORS, NON-STANDARD, SPECIAL EFFECTS FOR CTCS [LA71]		A	- / -	- / -	- / -	39,899 / 0.979	- / -	39,899 / 0.979
P-40	Total Gross/Weapon System Cost			- / 229.134	- / 8.287	- / 9.749	- / 7.412	- / -	- / 7.412

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station and the combined training centers. Test requirements support the development, fielding, safety and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.

FY 2017 Base procurement dollars in the amount of \$7.412 million supports production of four variants of simulators.

E49700 - SIMULATOR PROJ GND BURST M115A2
This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$2.323 million supports production of 84,991 Ground Burst Simulators.

E50200 - SIMULATOR HAND GRENADE M116A1
This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$2.210 million supports production of 69,723 hand grenade simulators.

E70600 - SIMULATOR ANTITANK GM RKT M22 (ATWESS)
This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$1.900 million supports production of 92,812 Anti-Tank simulators.

E88404 - SIMULATORS, NON STANDARD, SPECIAL EFFECTS FOR CTCS
This is a training unique item not used in combat. FY 2017 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.979 million supports production of 39,899 Non Standard Simulators.

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Exhibit P-5, Cost Analysis: PB 2017 Army											Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: E51200 / Simulators, All Types						Item Number / Title [DODIC]: E49700 / SIMULATOR PROJ GND BURST M115A2 [L594]						
ID Code (A=Service Ready, B=Not Service Ready) : A											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)				-		129,751			135,368			84,991			-		84,991	
Gross/Weapon System Cost (\$ in Millions)				107.965		3.242			3.365			2.323			-		2.323	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				107.965		3.242			3.365			2.323			-		2.323	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Total Obligation Authority (\$ in Millions)				107.965		3.242			3.365			2.323			-		2.323	
<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)				-		-			-			27.33			-		27.33	

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	107.965	19.35	129,751	2.511	19.73	135,368	2.671	20.03	84,991	1.702	-	-	-	20.03	84,991	1.702
<i>Subtotal: Recurring Cost</i>	-	-	<i>107.965</i>	-	-	<i>2.511</i>	-	-	<i>2.671</i>	-	-	<i>1.702</i>	-	-	-	-	-	<i>1.702</i>
Subtotal: Hardware Cost	-	-	107.965	-	-	2.511	-	-	2.671	-	-	1.702	-	-	-	-	-	1.702
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.116	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	<i>0.116</i>	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.565	-	-	0.576	-	-	0.618	-	-	-	-	-	0.618
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	<i>0.565</i>	-	-	<i>0.576</i>	-	-	<i>0.618</i>	-	-	-	-	-	<i>0.618</i>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.004	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	<i>0.004</i>	-	-	<i>0.002</i>	-	-	<i>0.002</i>	-	-	-	-	-	<i>0.002</i>
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.162	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	<i>0.162</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	107.965	-	129,751	3.242	-	135,368	3.365	27.33	84,991	2.323	-	-	-	27.33	84,991	2.323

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E51200 / Simulators, All Types	Item Number / Title [DODIC]: E49700 / SIMULATOR PROJ GND BURST M115A2 [L594]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E51200 / Simulators, All Types	Item Number / Title [DODIC]: E50200 / SIMULATOR HAND GRENADE M116A1 [L601]

ID Code (A=Service Ready, B=Not Service Ready) : A				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)				-	178,778	226,813	69,723	-	69,723
Gross/Weapon System Cost (\$ in Millions)				80.589	3.961	4.884	2.210	-	2.210
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				80.589	3.961	4.884	2.210	-	2.210
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				80.589	3.961	4.884	2.210	-	2.210
<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)				-	-	-	31.70	-	31.70

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	80.589	16.55	178,778	2.959	16.88	226,813	3.829	17.44	69,723	1.216	-	-	-	17.44	69,723	1.216
<i>Subtotal: Recurring Cost</i>	-	-	80.589	-	-	2.959	-	-	3.829	-	-	1.216	-	-	-	-	-	1.216
Subtotal: Hardware Cost	-	-	80.589	-	-	2.959	-	-	3.829	-	-	1.216	-	-	-	-	-	1.216
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.144	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.144	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.838	-	-	0.910	-	-	0.992	-	-	-	-	-	0.992
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.838	-	-	0.910	-	-	0.992	-	-	-	-	-	0.992
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.003	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.003	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.162	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	0.162	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	80.589	-	178,778	3.961	-	226,813	4.884	31.70	69,723	2.210	-	-	-	31.70	69,723	2.210

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E51200 / Simulators, All Types	Item Number / Title [DODIC]: E50200 / SIMULATOR HAND GRENADE M116A1 [L601]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E51200 / Simulators, All Types	Item Number / Title [DODIC]: E70600 / SIMULATOR ANTITANK GM RKT M22 (ATWESS) [LA77]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	5,700	9,257	92,812	-	92,812
Gross/Weapon System Cost (\$ in Millions)	40.580	1.084	1.500	1.900	-	1.900
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	40.580	1.084	1.500	1.900	-	1.900
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	40.580	1.084	1.500	1.900	-	1.900

(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)	-	-	-	20.47	-	20.47

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 Cost																		
Recurring Cost																		
Complete Round	-	-	40.000	23.70	5,700	0.135	24.17	9,257	0.224	9.62	92,812	0.893	-	-	-	9.62	92,812	0.893
<i>Subtotal: Recurring Cost</i>	-	-	40.000	-	-	0.135	-	-	0.224	-	-	0.893	-	-	-	-	-	0.893
Subtotal: Hardware Cost	-	-	40.000	-	-	0.135	-	-	0.224	-	-	0.893	-	-	-	-	-	0.893
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.580	-	-	0.946	-	-	0.923	-	-	1.004	-	-	-	-	-	1.004
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	0.580	-	-	0.946	-	-	0.923	-	-	1.004	-	-	-	-	-	1.004
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.002	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.002	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	40.580	-	5,700	1.084	-	9,257	1.500	20.47	92,812	1.900	-	-	-	20.47	92,812	1.900

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E51200 / Simulators, All Types	Item Number / Title [DODIC]: E70600 / SIMULATOR ANTITANK GM RKT M22 (ATWESS) [LA77]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: E51200 / Simulators, All Types	Item Number / Title [DODIC]: E88404 / SIMULATORS, NON-STANDARD, SPECIAL EFFECTS FOR CTCS [LA71]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	-	-	-	39,899	-	39,899
Gross/Weapon System Cost (\$ in Millions)	-	-	-	0.979	-	0.979
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	0.979	-	0.979
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	0.979	-	0.979

(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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	-	-	-	-	-	-	14.13	39,899	0.564	-	-	-	14.13	39,899	0.564
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.564	-	-	-	-	-	0.564
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.564	-	-	-	-	-	0.564
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.415	-	-	-	-	-	0.415
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.415	-	-	-	-	-	0.415
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	39,899	0.979	-	-	-	-	39,899	0.979

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous	P-1 Line Item Number / Title: EB0016 / Ammo Components, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	703.004	3.594	3.521	12.726	-	12.726	12.237	11.080	10.135	10.336	-	766.633
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	703.004	3.594	3.521	12.726	-	12.726	12.237	11.080	10.135	10.336	-	766.633
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	703.004	3.594	3.521	12.726	-	12.726	12.237	11.080	10.135	10.336	-	766.633

(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 budget line includes all Ammo Components/Support Items.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous	P-1 Line Item Number / Title: EB0016 / Ammo Components, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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	EA0500 / COMPONENTS AND RENOVATION OF FIELD STOCK			- / 647.507	- / 2.010	- / 1.845	- / 10.606	- / -	- / 10.606
P-40a	EA1200 / WEAPON COMP IN SPT OF PROOF/ACPT TESTING			- / 55.497	- / 1.584	- / 1.676	- / 2.120	- / -	- / 2.120
P-40	Total Gross/Weapon System Cost			- / 703.004	- / 3.594	- / 3.521	- / 12.726	- / -	- / 12.726

*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 components support Special Tests, First Article Test, Renovation of Field Stocks and Proof of Acceptance Tests and are used in both training and combat ammunition.

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50 **P-1 Line Item Number / Title:** EB0016 / Ammo Components, All Types **Aggregated Items Title:** Various

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)
COMPONENTS AND RENOVATION OF FIELD STOCK																				
EA0500 / COMPONENTS AND RENOVATION OF FIELD STOCK			-	-	647.507	-	-	2.010	-	-	1.845	-	-	10.606	-	-	-	-	-	10.606
EA1200 / WEAPON COMP IN SPT OF PROOF/ACPT TESTING			-	-	55.497	-	-	1.584	-	-	1.676	-	-	2.120	-	-	-	-	-	2.120
Subtotal: COMPONENTS AND RENOVATION OF FIELD STOCK			-	-	703.004	-	-	3.594	-	-	3.521	-	-	12.726	-	-	-	-	-	12.726
Total			-	-	703.004	-	-	3.594	-	-	3.521	-	-	12.726	-	-	-	-	-	12.726

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous	P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	27.708	-	1.700	6.100	0.773	6.873	2.900	-	0.300	-	-	39.481
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.708	-	1.700	6.100	0.773	6.873	2.900	-	0.300	-	-	39.481
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.708	-	1.700	6.100	0.773	6.873	2.900	-	0.300	-	-	39.481

(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 budget line item procures Non-Lethal Ammunition, All Types.

(E86401) CTG 12 GA NL, EXT RG, MARK XM1116

The XM1116 is a 12 gauge low velocity cartridge fired from a standard, 3 inch chamber, manually operated shotgun. It utilizes a drag stabilized bean bag design with fluorescent green marking powder to deliver a strong, non-penetrating blow to the body. This cartridge has an effective range of approximately 30 to 50 meters. This item is Code B, not approved for service use.

(E89000) CTG, 40MM Non-Lethal (NL) (SPONGE GRN) M1006

The 40MM Non-Lethal munition, M1006, is a sponge grenade that is launched from M203 Grenade Launcher without any modifications to the weapon. The M1006 has been designed to incapacitate a targeted individual with non-lethal blunt trauma at ranges of 10 to 50 meters. The cartridge incorporates a propulsion system that utilizes smokeless powder. The projectile is made from polyolafin foam and the body utilizes thermoplastic polyester. This item is Code "A" approved for service use.

(E89002) CTG, 40MM AIRBURST F M203 XM1112

The Cartridge 40 Millimeter Airburst for M203 XM1112 is intended to have an effective range between 35 to 300 meters. It contains a proximity fuze with programmable option. It is intended to deliver multiple non-lethal effects: flash-blindness, temporary hearing shift. The XM1112 is intended to deliver consistent non-lethal effects regardless of range setting. It will have a user settable delay option for room clearing. It is fully compatible with existing 40 millimeter M203/M320 weapons platforms without any modifications. The XM1112 will deliver non-lethal effects lasting at least 20 seconds. This item is Code B, not approved for service use.

(E91505) CTG NL FIRING DEVICE: TASER, XP25

The Cartridge, NL Firing Device is a 25-foot single shot fired from the Launched Electrode Stun Device (LESD), which is a hand held device used for Electro-Muscular Incapacitation (EMI). This cartridge is a conducted energy weapon that delivers an incapacitating electrical shock capable of arcing through 2 inches of clothing. Maximum effective range is 15 feet. This item is Code A, approved for service use.

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous

P-1 Line Item Number / Title:
E91901 / Non-Lethal Ammunition, All Types

ID Code (A=Service Ready, B=Not Service Ready): **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	E86401 / CTG, 12 GA, NON-LETH, EXT RG, MARKING M1116 series [AC02]		B	747 / 3.546	- / -	- / 0.500	- / -	- / -	- / -
P-5	E89000 / CTG 40MM NON-LETHAL (SPONGE GRENADE-PT TGT) M1006 [BA06]		A	751 / 12.608	- / -	881 / 0.400	- / -	- / -	- / -
P-5	E89002 / CTG 40MM, NON-LETHAL, XM1112, TAC AIRBURST F/M-203 [BA39]	P-5a, P-21	B	- / 10.940	- / -	- / 0.500	7,379 / 6.100	- / -	7,379 / 6.100
P-5	E91505 / CTG, NL FIRING DEVICE: TASER, XP25 f/X26E Taser [JN17]		A	2,017 / 0.614	- / -	5,536 / 0.300	- / -	20,498 / 0.773	20,498 / 0.773
P-40	Total Gross/Weapon System Cost			- / 27.708	- / -	- / 1.700	- / 6.100	- / 0.773	- / 6.873

*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:
2017 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$6.873 million supports production of 2 variants of Non-Lethal Ammunition.

The FY 2017 OCO includes \$0.773 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiatives. The FY 2017 includes 1 variant of Non-Lethal Ammunition.

(E86401) Ctg, 12G, Non-Lethal, Ext RG, Marking M1116 Series
This is a training standard item used in both training and combat. Procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals.

(E89000) Ctg 40MM Non-Lethal (Sponge Grenade-PT TGT) M1006
This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal.

(E89002) CTG, 40MM AIRBURST F M203 XM1112
This is a training standard item used in both training and combat. Procurement supports annual training and builds a war reserve inventory in accordance with the Army procurement goals. FY2017 Base procurement dollars in the amount of \$6.100 million will procure 7,379 units.

(E91505) Ctg, NL Firing Device: Taser XP25 f/X26E Taser
This is a training standard item used in both training and combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goal.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous		P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types
ID Code (A=Service Ready, B=Not Service Ready):	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>"The FY 2017 OCO includes \$.773 million to support the COCOM requirement for ammunition to deter potential adversaries and support the European Reassurance Initiative. The procurements include (20,498 E91505 CTG NL FIRING DEVICE:TASER, XP25".</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types	Item Number / Title [DODIC]: E86401 / CTG, 12 GA, NON-LETH, EXT RG, MARKING M1116 series [AC02]

ID Code (A=Service Ready, B=Not Service Ready) : B	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 (<i>Units in Each</i>)	747	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.546	-	0.500	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.546	-	0.500	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.546	-	0.500	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	4,746.99	-	-	-	-	-

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 Cost																		
Recurring Cost																		
Complete Round	-	-	3.546	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	3.546	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	3.546	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.402	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.402	-	-	-	-	-	-	-	-	-
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	-	-	-	0.098	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	-	-	-	0.098	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	4,746.99	747	3.546	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types	Item Number / Title [DODIC]: E89000 / CTG 40MM NON-LETHAL (SPONGE GRENADE-PT TGT) M1006 [BA06]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	751	-	881	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.608	-	0.400	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.608	-	0.400	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.608	-	0.400	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	16,788.28	-	454.03	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	12.608	-	-	-	18.58	881	0.016	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>12.608</i>	-	-	-	-	-	<i>0.016</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	12.608	-	-	-	-	-	0.016	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.384	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.384	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	16,788.28	751	12.608	-	-	-	454.03	881	0.400	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types	Item Number / Title [DODIC]: E89002 / CTG 40MM, NON-LETHAL, XM1112, TAC AIRBURST F/M-203 [BA39]

ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	7,379	-	7,379
Gross/Weapon System Cost (<i>\$ in Millions</i>)			10.940	-	0.500	6.100	-	6.100
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			10.940	-	0.500	6.100	-	6.100
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			10.940	-	0.500	6.100	-	6.100
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (<i>\$ in Millions</i>)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)			-	-	-	826.67	-	826.67

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 Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	8.149	-	-	-	-	-	-	631.78	7,379	4.662	-	-	-	631.78	7,379	4.662
<i>Subtotal: Recurring Cost</i>	-	-	8.149	-	-	-	-	-	-	-	-	4.662	-	-	-	-	-	4.662
<i>Subtotal: Hardware Cost</i>	-	-	8.149	-	-	-	-	-	-	-	-	4.662	-	-	-	-	-	4.662
Support - Production Engineering Cost																		
Production Engineering	-	-	2.791	-	-	-	-	-	0.500	-	-	1.438	-	-	-	-	-	1.438
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	2.791	-	-	-	-	-	0.500	-	-	1.438	-	-	-	-	-	1.438
Gross/Weapon System Cost	-	-	10.940	-	-	-	-	-	0.500	826.67	7,379	6.100	-	-	-	826.67	7,379	6.100

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50			P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types				Item Number / Title [DODIC]: E89002 / CTG 40MM, NON-LETHAL, XM1112, TAC AIRBURST F/M-203 [BA39]				

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
COMPLETE ROUND ^(†)		2017	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	May 2017	Aug 2018	7,379	631.78	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types	Item Number / Title [DODIC]: E89002 / CTG 40MM, NON-LETHAL, XM1112, TAC AIRBURST F/M-203 [BA39]

O C O		M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Fiscal Year 2017													Fiscal Year 2018													B A L A N C E
								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			
COMPLETE ROUND																																		
1		2017	ARMY		7,379	-	7,379									A	-	-	-	-	-	-	-	-	-	-	-	-	-	7,379	-			
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50		P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types
		Item Number / Title [DODIC]: E89002 / CTG 40MM, NON-LETHAL, XM1112, TAC AIRBURST F/M-203 [BA39]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			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	TO BE SELECTED - TBS01	50,000	50,000	100,000	8	8	15	23	6	6	12	18

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

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 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 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: E91901 / Non-Lethal Ammunition, All Types	Item Number / Title [DODIC]: E91505 / CTG, NL FIRING DEVICE: TASER, XP25 f/X26E Taser [JN17]

ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:					
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)		2,017	-	5,536	-	20,498	20,498
Gross/Weapon System Cost (<i>\$ in Millions</i>)		0.614	-	0.300	-	0.773	0.773
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		0.614	-	0.300	-	0.773	0.773
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		0.614	-	0.300	-	0.773	0.773
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)		304.41	-	54.19	-	37.71	37.71

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 Cost																		
Recurring Cost																		
Complete Round	-	-	0.614	-	-	-	34.01	5,536	0.188	-	-	-	33.66	20,498	0.690	33.66	20,498	0.690
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.614</i>	-	-	-	-	-	<i>0.188</i>	-	-	-	-	-	<i>0.690</i>	-	-	<i>0.690</i>
<i>Subtotal: Hardware Cost</i>	-	-	0.614	-	-	-	-	-	0.188	-	-	-	-	-	0.690	-	-	0.690
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.112	-	-	-	-	-	0.083	-	-	0.083
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.112	-	-	-	-	-	0.083	-	-	0.083
Gross/Weapon System Cost	304.41	2,017	0.614	-	-	-	54.19	5,536	0.300	-	-	-	37.71	20,498	0.773	37.71	20,498	0.773

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous	P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	158.535	6.670	6.181	10.006	-	10.006	16.777	15.838	18.036	18.048	-	250.091
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	158.535	6.670	6.181	10.006	-	10.006	16.777	15.838	18.036	18.048	-	250.091
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	158.535	6.670	6.181	10.006	-	10.006	16.777	15.838	18.036	18.048	-	250.091

(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 budget line includes Miscellaneous Ammunition Items Under \$5 million.

(E01700)CTG CAL .22 LR MATCH F/PISTOL is used in .22 caliber Remington Model 40X-H1 rifles for military marksmanship training. This item is Code A, approved for service use.

(E03001)CTG, CAL .30 BLANK is used for ceremonial purposes and training in the M1 Garand rifles. It can be identified by the absence of a bullet and a crimped casemouth. This item is Code A, approved for service use.

(E03701)CTG .300 Winchester Magnum (WinMag) MK248 procurement supports the M2010 Enhanced Sniper Rifle (ESR). It consists of an Open Tip Match (OTM) bullet, brass cartridge case, large rifle lead-styphnate primer, and smokeless small arms propellant. This item is Code A, approved for service use.

(E03710)CTG .338 Lapua Magnum XM1154 procurement supports the Precision Sniper Rifle. It consists of an Armor Piercing (AP) or Armor Piercing, Incendiary (API) Bullet, brass cartridge case, large rifle lead-styphanate primer, and smokeless small arms propellant. This item is Code B, not approved for service use.

(E03715)CTG .338 Lapua Magnum MK330 procurement supports the Precision Sniper Rifle. It consists of an Open Tip Match (OTM) Bullet, brass cartridge case, large rifle lead, styphanate primer, and smokeless small arms propellant. This item is Code B, not approved for service use.

(E99101)Special Training Ammo includes Special Training Ammo.

(E99105) Soldier Enhancement Program Ammo. The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act for Fiscal Year 1990 and 1991. The SEP evaluates available Commercial Off the Shelf (COTS), Government Off the Shelf (GOTS) and Non-Developmental Items (NDI) equipment to determine if items have the potential to provide increased combat effectiveness to the Soldier. The SEP procures selected types of equipment designed to increase Soldiers' mission command, situational awareness and operational effectiveness. SEP AMMO provides a means of procuring COTS/GOTS/NDI ammunition to be evaluated by Soldiers for potential Army use.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous		P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)
ID Code (A=Service Ready, B=Not Service Ready):	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>(E99222) Foreign Weapons Training Ammunition. Foreign weapons ammunition is munitions that has not been Type Classified, Materiel Released or Fielded for standard use by US Army or other DoD services. It is not stocked/procured in standard DoD supply system. Funds will be used to purchase foreign (Non NATO) standard munitions, training devices and materials, shipping, conduct safety and quality assessments, and market research.</p> <p>(EA0600) AMMUNITION PROGRAM SUPPORT includes ammunition program support.</p> <p>(EA0960) USAMTU FT BENNING. This budget line funds USAMTU FT Benning.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous

P-1 Line Item Number / Title:
EA0055 / Items Less Than \$5 Million (AMMO)

ID Code (A=Service Ready, B=Not Service Ready): **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	E01700 / CTG CAL .22 LR MATCH F/RIFLE [A091]		A	34,686,661 / 6.991	757,437 / 0.126	1,151,468 / 0.200	277,206 / 0.073	- / -	277,206 / 0.073
P-5	E03001 / CTG, CAL .30 BLANK [A222]		A	97,114,525 / 27.695	2,336,345 / 0.800	- / -	- / -	- / -	- / -
P-5	E03701 / CTG, CAL .300 WIN MAG, MK 248 w/MODs (7.62x67MM) [A191]		A	7,481,247 / 11.968	- / -	247,494 / 0.300	- / -	- / -	- / -
P-5	E03710 / CARTRIDGE, .338 LAPUA MAGNUM, ARMOR PIERCING		B	- / -	- / -	- / -	437 / 0.320	- / -	437 / 0.320
P-5	E03715 / CARTRIDGE, .338 LAPUA MAGNUM, MK 330 MOD 0		B	- / -	- / -	- / -	180,500 / 1.000	- / -	180,500 / 1.000
P-40a	E99101 / Special Training Ammo:			- / 30.577	- / 1.079	- / 0.844	- / 1.466	- / -	- / 1.466
P-40a	E99105 / Soldier Enhancement Program Ammo			- / -	- / -	- / -	- / 0.341	- / -	- / 0.341
P-40a	EA0600 / AMMUNITION PROGRAM SUPPORT			- / 47.011	- / 3.072	- / 3.474	- / 4.611	- / -	- / 4.611
P-40a	EA0960 / USAMTU FT BENNING			- / 34.293	- / 1.593	- / 1.363	- / 1.695	- / -	- / 1.695
P-5	E99222 / Foreign Weapons Training Ammunition			- / -	- / -	- / -	- / 0.500	- / -	- / 0.500
P-40	Total Gross/Weapon System Cost			- / 158.535	- / 6.670	- / 6.181	- / 10.006	- / -	- / 10.006

*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 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). 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 at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 Base procurement dollars in the amount of \$10.006 million supports procurement of .458 million cartridges.

(E01700) CTG CAL .22 LR MATCH F/PISTOL is a training standard item used in training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2017 Base procurement dollars in the amount of \$0.073 million supports the procurement of 0.277 million .22 LR MATCH cartridges.

Type classification date: April 1988

(E03001) CTG, CAL .30 BLANK is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.

Type classification date: 1917

(E03701) CTG .300 Winchester Magnum MK248 is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

Type classification date: October 2012

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous		P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)
ID Code (A=Service Ready, B=Not Service Ready):	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>(E03710) CTG .338 Lapua Magnum XM1154 is a training standard item used in both training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2017 Base procurement dollars in the amount of \$0.320 million supports the procurement of 0.437 million .338 Lapua Magnum XM1154 cartridges. Type classification date: PENDING</p> <p>(E03715) CTG .338 Lapua Magnum MK330 is a standard item used in both training and combat. The FY 2017 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2017 Base procurement dollars in the amount of \$1.000 million supports the procurement of 0.181 million CTG .338 Lapua Magnum MK330 cartridges. TYPE CLASSIFICATION DATE: PENDING</p> <p>(E99101)Special Training Ammunition. The FY 2017 funds will procure non-standard munitions and energetic materials to support the training of US Army troops in accordance with HQDA G3 approved authorizations.</p> <p>(E99105) Soldier Enhancement Program Ammo. The FY 2017 request procures approved COTS, GOTS, and NDIs ammunition that will be evaluated by Soldiers for potential use by the Army or used for evaluation of SEP weapons.</p> <p>(E99222) FY 2017 funds will be used to procure Non Standard Ammunition (NSA), related Non Standard Weapons Systems (NSWS), as well as related training aids for Army units supporting the Regionally Aligned Forces (RAF) mission. Army units will conduct preparation training with Nonstandard weapons and munitions before deployment in order to be trained to support requirements, including operational missions, bilateral and multilateral military exercises and security cooperation activities. FY 2017 Base procurement dollars in the amount of \$.500 million supports the procurement of .381 million quantity of Non Standard Ammunition.</p> <p>(EA0960)USAMTU FT Benning. The FY 2017 request supports the procurement of non-standard munitions and energetic materials to support marksmanship training throughout the US. Army, in accordance with HQDA G3 approved authorizations.</p> <p>(EA0600) Ammunition Program Support. The FY 2017 request supports ammunition program support.</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)	Item Number / Title [DODIC]: E01700 / CTG CAL .22 LR MATCH F/ RIFLE [A091]

ID Code (A=Service Ready, B=Not Service Ready) : A	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 (<i>Units in Each</i>)	34,686,661	757,437	1,151,468	277,206	-	277,206
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6.991	0.126	0.200	0.073	-	0.073
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6.991	0.126	0.200	0.073	-	0.073
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6.991	0.126	0.200	0.073	-	0.073

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	0.20	0.17	0.17	0.26	-	0.26

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	0.17	34,686,661	5.897	0.13	757,437	0.098	0.15	1,191,793	0.179	0.14	277,206	0.039	-	-	-	0.14	277,206	0.039
<i>Subtotal: Recurring Cost</i>	-	-	5.897	-	-	0.098	-	-	0.179	-	-	0.039	-	-	-	-	-	0.039
<i>Subtotal: Hardware Cost</i>	-	-	5.897	-	-	0.098	-	-	0.179	-	-	0.039	-	-	-	-	-	0.039
Support - Production Engineering Cost																		
Production Engineering	-	-	1.094	-	-	0.024	-	-	0.017	-	-	0.033	-	-	-	-	-	0.033
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	1.094	-	-	0.024	-	-	0.017	-	-	0.033	-	-	-	-	-	0.033
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.004	-	-	0.004	-	-	0.001	-	-	-	-	-	0.001
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	0.004	-	-	0.004	-	-	0.001	-	-	-	-	-	0.001
Gross/Weapon System Cost	0.20	34,686,661	6.991	0.17	757,437	0.126	0.17	1,151,468	0.200	0.26	277,206	0.073	-	-	-	0.26	277,206	0.073

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)	Item Number / Title [DODIC]: E03001 / CTG, CAL .30 BLANK [A222]

ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:					
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)		97,114,525	2,336,345	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)		27.695	0.800	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		27.695	0.800	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		27.695	0.800	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)		0.29	0.34	-	-	-	-

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 Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	27.695	0.25	2,336,345	0.584	-	-	-	-	-	-	-	-	-	-	-	-
BOX METAL M2A2	-	-	-	10.38	3,808	0.040	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	27.695	-	-	0.624	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	27.695	-	-	0.624	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.176	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	0.176	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.29	97,114,525	27.695	0.34	2,336,345	0.800	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)	Item Number / Title [DODIC]: E03701 / CTG, CAL .300 WIN MAG, MK 248 w/MODs (7.62x67MM) [A191]

ID Code (A=Service Ready, B=Not Service Ready) : A	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)	7,481,247	-	247,494	-	-	-
Gross/Weapon System Cost (\$ in Millions)	11.968	-	0.300	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	11.968	-	0.300	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	11.968	-	0.300	-	-	-

(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)	1.60	-	1.21	-	-	-

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 Cost																		
Recurring Cost																		
COMPLETE ROUND	1.19	7,481,247	8.903	-	-	-	1.15	247,494	0.285	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	8.903	-	-	-	-	-	0.285	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	8.903	-	-	-	-	-	0.285	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	3.065	-	-	-	-	-	0.011	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	3.065	-	-	-	-	-	0.011	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	1.60	7,481,247	11.968	-	-	-	1.21	247,494	0.300	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)	Item Number / Title [DODIC]: E03710 / CARTRIDGE, .338 LAPUA MAGNUM, ARMOR PIERCING

ID Code (A=Service Ready, B=Not Service Ready) : B	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 (<i>Units in Each</i>)	-	-	-	437	-	437
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	0.320	-	0.320
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	0.320	-	0.320
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	0.320	-	0.320

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	732.27	-	732.27

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 Cost																		
Recurring Cost																		
Complete Round	-	-	-	-	-	-	-	-	-	16.48	437	0.007	-	-	-	16.48	437	0.007
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.007	-	-	-	-	-	0.007
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.007	-	-	-	-	-	0.007
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.313	-	-	-	-	-	0.313
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.313	-	-	-	-	-	0.313
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	732.27	437	0.320	-	-	-	732.27	437	0.320

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)	Item Number / Title [DODIC]: E03715 / CARTRIDGE, .338 LAPUA MAGNUM, MK 330 MOD 0

ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)		-	-	-	180,500	-	180,500
Gross/Weapon System Cost (<i>\$ in Millions</i>)		-	-	-	1.000	-	1.000
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		-	-	-	1.000	-	1.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		-	-	-	1.000	-	1.000
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)		-	-	-	5.54	-	5.54

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 Cost																		
Recurring Cost																		
Hardware	-	-	-	-	-	-	-	-	-	3.66	180,500	0.660	-	-	-	3.66	180,500	0.660
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.661	-	-	-	-	-	0.661
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.661	-	-	-	-	-	0.661
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.339	-	-	-	-	-	0.339
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.339	-	-	-	-	-	0.339
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	5.54	180,500	1.000	-	-	-	5.54	180,500	1.000

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50 **P-1 Line Item Number / Title:** EA0055 / Items Less Than \$5 Million (AMMO) **Aggregated Items Title:** Various

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)
Special Training Ammo:																				
E99101 / Special Training Ammo:			-	-	30.577	-	-	1.079	-	-	0.844	-	-	1.466	-	-	-	-	-	1.466
E99105 / Soldier Enhancement Program Ammo			-	-	-	-	-	-	-	-	-	-	-	0.341	-	-	-	-	-	0.341
EA0600 / AMMUNITION PROGRAM SUPPORT			-	-	47.011	-	-	3.072	-	-	3.474	-	-	4.611	-	-	-	-	-	4.611
EA0960 / USAMTU FT BENNING			-	-	34.293	-	-	1.593	-	-	1.363	-	-	1.695	-	-	-	-	-	1.695
Subtotal: Special Training Ammo:			-	-	111.881	-	-	5.744	-	-	5.681	-	-	8.113	-	-	-	-	-	8.113
Total			-	-	111.881	-	-	5.744	-	-	5.681	-	-	8.113	-	-	-	-	-	8.113

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50	P-1 Line Item Number / Title: EA0055 / Items Less Than \$5 Million (AMMO)	Item Number / Title [DODIC]: E99222 / Foreign Weapons Training 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 <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	0.500	-	0.500
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	0.500	-	0.500
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	0.500	-	0.500

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

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

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or 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 Cost																		
Recurring Cost																		
Hardware	-	-	-	-	-	-	-	-	-	1.08	381,481	0.412	-	-	-	1.08	381,481	0.412
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.412	-	-	-	-	-	0.412
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.412	-	-	-	-	-	0.412
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	0.030
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	0.030
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.058	-	-	-	-	-	0.058
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.058	-	-	-	-	-	0.058
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous	P-1 Line Item Number / Title: EA0575 / Ammunition Peculiar Equipment
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 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>)	304.331	12.925	17.811	17.275	-	17.275	21.667	21.961	21.290	21.886	-	439.146
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	304.331	12.925	17.811	17.275	-	17.275	21.667	21.961	21.290	21.886	-	439.146
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	304.331	12.925	17.811	17.275	-	17.275	21.667	21.961	21.290	21.886	-	439.146

(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 Ammunition Peculiar Equipment (APE) program provides support for ammunition operations including surveillance, demilitarization (demil), maintenance, renovation, modification, packaging, and preservation per Army Regulation 700-20, Ammunition Peculiar Equipment. APE is developed, acquired, and supervised through the Single Manager for Conventional Ammunition per DoD Instruction 5160.68. APE provides equipment items specifically designed, fabricated, procured, tested, and adopted for use in worldwide United States (US) military ammunition depot operations on conventional ammunition. APE maintains a central source of standard, modern, safe, efficient, reliable, and environmentally acceptable equipment for ammunition operations. This equipment is different from production line plant equipment as it disassembles ammunition items into components, sorts and removes hazardous materials to reduce human interaction and improves personnel safety. Maintenance APE is also designed to perform cleaning and renovation functions on ammunition subjected to deterioration effects (rust, corrosion, weathering, etc) during its storage life. APE supporting surveillance is key to stockpile sampling and functional testing of the items to assure readiness for combat or training. Demilitarization APE is similar to maintenance APE, but must go further in disassembly to destroy hazardous components, sort and reclaim salvageable parts or metals.

Justification:

FY 2017 Base procurement dollars in the amount of \$17.275 million will provide APE that must be available to perform ammunition depot operations for conventional ammunition. These operations cannot be accomplished if the required APE is not supplied in a timely manner. APE is required to support the Ammunition Stockpile Reliability Program, Surveillance Program, equipment for worldwide maintenance and demil, prepositioned ships, and Government-Owned, Contractor-Operated plants as Government Furnished Equipment. The APE assets maintain and verify the quality of the ammunition stockpile; thereby saving the cost of purchasing new replacement ammunition. APE proficiently executes the ammunition demil mission to safely perform disassembly, destruction, or removal processes with an emphasis on recycling, re-utilization and preserving demil assets in a manner that supports ammunition sustainment, safety and environmental compliance.

The APE program provides essential major parts and equipment upgrades at the Demilitarization Facility (DEFAC) in the Republic of Korea (ROK). A Memorandum of Agreement was signed on 4 November 2011 by US Forces Korea and the ROK Ministry of National Defense, which permits the demil of US titled munitions at this facility. The DEFAC provides an environmentally safe means of demil for both US and ROK titled munitions, and the demil of US titled munitions at the DEFAC avoids significant retrograde shipment costs. Ongoing demil operations have depleted the stockpile of US titled munitions at the DEFAC; therefore, these operations will terminate and the facility will be closed down by the end of FY 2017. The APE located at the facility will be sold to Korea and/or shipped back to the US. The equipment retrograde costs will be supported by the APE Program.

The program provides global support to the US Military Services for ammunition sustainment and demil operations, including deployment, operations and support of the Ammunition Supply Point (ASP) suites. The ASP suites include APE, which will increase the efficiency of the receipt, inspection and issuance of ammunition to the warfighter. Deployment of APE to support ASP suites will increase efficiencies

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous		P-1 Line Item Number / Title: EA0575 / Ammunition Peculiar Equipment
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
for ammunition sustainment operations by reducing logistics burdens and related risks. This allows for better primary mission readiness, enhanced hazardous operations safety and more efficient operating conditions requiring less ammunition retrograde/demil by providing capability to preserve ammunition assets.		

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous	P-1 Line Item Number / Title: EA0550 / First Destination Transportation (AMMO)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 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>)	917.698	14.349	14.695	14.951	-	14.951	15.221	15.487	15.871	16.141	-	1,024.413
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	917.698	14.349	14.695	14.951	-	14.951	15.221	15.487	15.871	16.141	-	1,024.413
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	917.698	14.349	14.695	14.951	-	14.951	15.221	15.487	15.871	16.141	-	1,024.413

(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:

Transportation funds are required to support the distribution of Army ammunition end items and components (Interim Transportation). Distribution originates from and to CONUS and OCONUS manufacturing plants/contractors, and/or assembly points, e.g., Army Ammunition Plants (AAPs), Arsenals; Defense Contract Management Centers to include Off Shore Procurement Contractors shipping under F.O.B Origin terms. Requirements are either destined for CONUS depots for acceptance into the Army Supply System, to CONUS Customers, to CONUS Arsenals, and to ports of embarkation in support of the Call Forward Program, i.e., Training, War Reserves or the Overseas Contingency Operations (OCO).

Justification:

FY 2017 request supports centrally funded distribution of Army ammunition end items and components (Interim Transportation).

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous	P-1 Line Item Number / Title: EA8500 / Closeout Liabilities
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	230.008	0.111	-	-	-	-	-	-	-	-	-	230.119
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	230.008	0.111	-	-	-	-	-	-	-	-	-	230.119
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	230.008	0.111	-	-	-	-	-	-	-	-	-	230.119

(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:

Funding will pay contract termination cost and operational losses/claims at ammunition plants.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous

P-1 Line Item Number / Title:
 EA8500 / Closeout Liabilities

ID Code (A=Service Ready, B=Not Service Ready): **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	EA8561 / Closeout Liabilities -- LAP Competition			- / 230.008	- / 0.111	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 230.008	- / 0.111	- / -	- / -	- / -	- / -

*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:
 Procurement dollars are required to pay contingent liabilities such as contract termination cost, e.g., unfunded pension liabilities, severance pay, and other claims approved by the Army Contract Review Board (ACRB).

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50 **P-1 Line Item Number / Title:** EA8500 / Closeout Liabilities **Aggregated Items Title:** Various

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)
Closeout Liabilities -- LAP Competition																				
EA8561 / Closeout Liabilities -- LAP Competition			-	-	230.008	-	-	0.111	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Closeout Liabilities -- LAP Competition			-	-	230.008	-	-	0.111	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	230.008	-	-	0.111	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support	P-1 Line Item Number / Title: EP1000 / Industrial Facilities
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	7,224.079	148.092	221.703	222.269	-	222.269	224.356	226.383	229.412	231.625	-	8,727.919
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7,224.079	148.092	221.703	222.269	-	222.269	224.356	226.383	229.412	231.625	-	8,727.919
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7,224.079	148.092	221.703	222.269	-	222.269	224.356	226.383	229.412	231.625	-	8,727.919

(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 budget line provides funding for modernization efforts at Government-Owned, Contractor-Operated Army Ammunition Plants (AAPs) and commercial facilities, including replacement of obsolete or worn production equipment, correction of deficiencies and upgrade of infrastructures. The Industrial Facilities (IF) budget line also establishes, augments and improves ammunition production capabilities through strategic modernization efforts, expands production capacity, maintains environmental compliance, and improves quality of work environment and safety at ammunition plants, as well as emergency modernization and associated construction to address production disruptions at various sites.

This budget line provides funding for preservation, storage and movement of real property facilities and equipment required for anticipated future requirements at active and inactive Army ammunition installations, also known as Layaway of Industrial Facilities (LIF) activities. Funding will also support consolidation of laid-away production equipment and redistribution of production equipment that cannot be stored on-site. Laid-away efforts will also include retaining critical operational and technical knowledge of production equipment, such as engineering designs, process data and control manufacturing practices. Efforts will also include safety-related decontamination, disposal and demolition of production equipment and facilities, and environmental site assessments.

Procurement funds also support the Maintenance of Inactive Facilities (MIF) to include utilities, buildings, plant equipment, special tooling, and special test equipment being retained to support future production requirements. Additional efforts include support of associated MIF costs such as grounds maintenance, fire protection, equipment security, and administrative support.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support	P-1 Line Item Number / Title: EP1000 / Industrial Facilities
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ID Code (A=Service Ready, B=Not Service Ready):	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	EP1200 / PROVISION OF INDUSTRIAL FACILITIES			- / 6,028.669	- / 129.916	- / 205.202	- / 205.065	- / -	- / 205.065
P-40a	EP1500 / Maintenance Of Inactive Facilities			- / 512.854	- / 2.393	- / 6.037	- / 6.157	- / -	- / 6.157
P-40a	EP2000 / Layaway Of Industrial Facilities			- / 682.556	- / 15.783	- / 10.464	- / 11.047	- / -	- / 11.047
P-40	Total Gross/Weapon System Cost			- / 7,224.079	- / 148.092	- / 221.703	- / 222.269	- / -	- / 222.269

*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 Base procurement dollars in the amount of \$222.269 million will support modernization projects to include upgrades to the industrial wastewater treatment processes at Holston AAP, upgrades to the small caliber production lines at Lake City AAP, rail system upgrades at Iowa AAP, and modernization improvements to the Nitric Acid Concentrator/Sulfuric Acid Concentrator at Radford AAP. Funds will support critical work environmental projects, including improvements for personnel safety and health, and efforts to maintain environmental compliance at the ammunition plants. Funds will also provide engineering support of industrial facilities, pre-design efforts for future-year modernization projects and procurement efforts at Aberdeen and Yuma Test Centers to include production acceptance tests for various ammunition end items.

FY 2017 funding also supports the protection and preservation of industrial facilities at active and inactive Army ammunition installations and equipment that are no longer required for current production but must be retained for future peacetime or emergency production needs. Funds support the fourth phase of the decontamination and disposal of excess buildings at Holston Army Ammunition Plant (AAP) and the layaway of various load, assemble and pack production lines at Milan AAP. LIF efforts also include the removal and disposal of legacy Nitrocellulose (NC) present in Hill Tank 417 at Radford AAP, which will significantly reduce environmental and safety issues associated with large quantities of legacy NC.

FY 2017 funding supports the care and maintenance of laid-away equipment and facilities at active and inactive ammunition installations.

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10 **P-1 Line Item Number / Title:** EP1000 / Industrial Facilities **Aggregated Items Title:** Various

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)
PROVISION OF INDUSTRIAL FACILITIES																				
EP1200 / PROVISION OF INDUSTRIAL FACILITIES			-	-	6,028.669	-	-	129.916	-	-	205.202	-	-	205.065	-	-	-	-	-	205.065
EP1500 / Maintenance Of Inactive Facilities			-	-	512.854	-	-	2.393	-	-	6.037	-	-	6.157	-	-	-	-	-	6.157
EP2000 / Layaway Of Industrial Facilities			-	-	682.556	-	-	15.783	-	-	10.464	-	-	11.047	-	-	-	-	-	11.047
Subtotal: PROVISION OF INDUSTRIAL FACILITIES			-	-	7,224.079	-	-	148.092	-	-	221.703	-	-	222.269	-	-	-	-	-	222.269
Total			-	-	7,224.079	-	-	148.092	-	-	221.703	-	-	222.269	-	-	-	-	-	222.269

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support	P-1 Line Item Number / Title: EP1700 / Conventional Munitions Demilitarization
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	2,527.086	117.529	143.250	157.383	-	157.383	199.275	152.890	141.609	151.091	-	3,590.113
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,527.086	117.529	143.250	157.383	-	157.383	199.275	152.890	141.609	151.091	-	3,590.113
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,527.086	117.529	143.250	157.383	-	157.383	199.275	152.890	141.609	151.091	-	3,590.113

(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 Conventional Munitions Demilitarization Program provides for the demilitarization (demil) and disposal of Single Manager for Conventional Ammunition (SMCA) managed conventional ammunition and missiles for all Military Services per DoD Directive 5160.65 and DoD Instruction 5160.68 that is unserviceable, obsolete, unsafe, or excess to requirements. The program accomplishes demil using open burning/open detonation (OB/OD) processes or closed disposal technologies (CDT) with primary emphasis on resource recovery and recycling (R3). This program also provides for operations, technical support and services; packaging, crating, handling, and transportation (PCHT) of ammunition for demil projects at United States Army depots, plants and activities; commercial contracts that provide CDT demil support and services; and international operations, which include the European and Pacific Theatres.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support

P-1 Line Item Number / Title:
 EP1700 / Conventional Munitions Demilitarization

ID Code (A=Service Ready, B=Not Service Ready): **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	EP1800 / CONVENTIONAL AMMUNITION DEMILITARIZATION (SMCA)			- / 2,121.900	- / 99.910	- / 60.641	- / 106.047	- / -	- / 106.047
P-5	EP1801 / Other Non-Army Service Demil Items (non-SMCA)			- / 23.888	- / 6.755	- / 9.898	- / 8.647	- / -	- / 8.647
P-5	EP1802 / Army Missile Demilitarization			- / 358.247	- / 9.092	- / 70.183	- / 39.743	- / -	- / 39.743
P-5	EP1803 / Non-Army Missile Demilitarization			- / 23.051	- / 1.772	- / 2.528	- / 2.946	- / -	- / 2.946
P-40	Total Gross/Weapon System Cost			- / 2,527.086	- / 117.529	- / 143.250	- / 157.383	- / -	- / 157.383

*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 Base procurement dollars in the amount of \$157.383 million will support the demilitarization of conventional ammunition as well as missile and missile components (msl/comp) for all Military Services.

FY 2017 funds will support the United States demil operations of conventional ammunition in both Continental United States (CONUS) and Outside the Continental United States (OCONUS). CONUS demil operations are performed by a combination of Government Owned, Government Operated (GOGO) depots, Government Owned, Contractor Operated (GOCO) depots as well as commercial contractors. OCONUS demil operations are performed at Demilitarization Facilities (DEFACs) in the Republic of Korea and Japan as well as commercial contractors in the European Union.

As of the end of September 2015, the SMCA Resource, Recovery and Disposition Account (B5A) contained 482,391 tons of ammunition in CONUS wholesale storage locations: 443,474 tons of conventional ammunition and 38,917 tons (373,768 eaches) of msl/comp. During FY 2015, 83,315 tons of demil was accomplished and comprised of 69,343 tons of conventional ammunition and 13,972 tons (149,063 eaches) of msl/comp.

Stockpile growth and generations: An estimated 38,763 tons of conventional ammunition will enter the B5A in FY 2016, and an estimated 37,169 tons of conventional ammunition will enter the B5A in FY 2017. During FY 2018 through FY 2021, 323,210 tons of conventional ammunition are forecasted to be added into the B5A. An estimated 8,749 tons (39,553 eaches) of msl/comp will enter the B5A in FY 2016, and an estimated 13,632 tons (52,356 eaches) of msl/comp will enter the B5A in FY 2017. During FY 2018 through FY 2021, 50,079 tons (238,053 eaches) of msl/comp are forecasted to be added into the B5A.

Stockpile growth factors: The demil stockpile is expected to grow as a result of Military Services generations as well as other factors such as cluster munitions and land mine policies as well as the disestablishment of War Reserve Stocks Allies (WRSA) accounts at OCONUS locations. Currently, there are approximately 166,616 tons of cluster munitions in the demil stockpile. An additional 198,928 tons are expected to be added into the B5A between FY 2016 and FY 2021 to ensure compliance with the Cluster Munitions Policy.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10	P-1 Line Item Number / Title: EP1700 / Conventional Munitions Demilitarization	Item Number / Title [DODIC]: EP1800 / CONVENTIONAL AMMUNITION DEMILITARIZATION (SMCA)

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)	2,121.900	99.910	60.641	106.047	-	106.047
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,121.900	99.910	60.641	106.047	-	106.047
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,121.900	99.910	60.641	106.047	-	106.047

(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)
Support - Demilitarization Cost																		
WHITE PHOSPHORUS	-	-	-	-	-	4.291	-	-	-	-	-	1.000	-	-	-	-	-	1.000
DEMOLITION MATERIAL	-	-	-	-	-	0.041	-	-	-	-	-	-	-	-	-	-	-	-
HE DETONATORS/ BOOSTERS	-	-	-	-	-	0.420	-	-	0.829	-	-	-	-	-	-	-	-	-
HE BOMBS	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
HE CARTRIDGES	-	-	-	-	-	1.459	-	-	5.000	-	-	8.000	-	-	-	-	-	8.000
GRENADES	-	-	-	-	-	0.847	-	-	0.058	-	-	0.031	-	-	-	-	-	0.031
HE DEPTH CHARGES	-	-	-	-	-	-	-	-	-	-	-	0.181	-	-	-	-	-	0.181
CLUSTER BOMBS/ ICM; ANTI-TANK & PERSONNEL	-	-	-	-	-	6.929	-	-	9.762	-	-	20.000	-	-	-	-	-	20.000
HE LAND MINES	-	-	-	-	-	1.027	-	-	0.467	-	-	0.045	-	-	-	-	-	0.045
INERT	-	-	-	-	-	0.796	-	-	-	-	-	1.000	-	-	-	-	-	1.000
MULTIPLE FAMILY	-	-	-	-	-	4.028	-	-	2.309	-	-	3.000	-	-	-	-	-	3.000
PROPELLANT CHARGES/INCREMENT CHARGES	-	-	-	-	-	3.566	-	-	4.685	-	-	5.000	-	-	-	-	-	5.000
TARGET PRACTICES/ 40MM ANTI-AIRCRAFT	-	-	-	-	-	1.274	-	-	0.054	-	-	6.000	-	-	-	-	-	6.000
SMALL ARMS AMMO THRU 20MM	-	-	-	-	-	0.968	-	-	0.303	-	-	1.000	-	-	-	-	-	1.000

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10	P-1 Line Item Number / Title: EP1700 / Conventional Munitions Demilitarization	Item Number / Title [DODIC]: EP1800 / CONVENTIONAL AMMUNITION DEMILITARIZATION (SMCA)

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)
INCINERABLE MUNITIONS/ MISCELLANEOUS	-	-	-	-	-	0.809	-	-	0.327	-	-	7.000	-	-	-	-	-	7.000
FUZES	-	-	-	-	-	0.961	-	-	1.252	-	-	1.000	-	-	-	-	-	1.000
TRANSPORTATION	-	-	-	-	-	6.454	-	-	5.000	-	-	5.790	-	-	-	-	-	5.790
MUNITIONS CHARACTERIZATION	-	-	-	-	-	3.908	-	-	3.200	-	-	2.500	-	-	-	-	-	2.500
OCONUS DEMIL - EUCOM	-	-	-	-	-	2.435	-	-	2.000	-	-	2.000	-	-	-	-	-	2.000
OCONUS DEMIL - PACOM	-	-	-	-	-	4.030	-	-	3.711	-	-	1.000	-	-	-	-	-	1.000
CONTRACT - CONUS DEMIL	-	-	2,121.900	-	-	48.895	-	-	21.040	-	-	40.000	-	-	-	-	-	40.000
<i>Subtotal: Support - Demilitarization Cost</i>	-	-	2,121.900	-	-	93.138	-	-	59.997	-	-	105.547	-	-	-	-	-	105.547
Support - Program Management Cost																		
Government Management	-	-	-	-	-	6.772	-	-	0.644	-	-	0.500	-	-	-	-	-	0.500
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	6.772	-	-	0.644	-	-	0.500	-	-	-	-	-	0.500
Gross/Weapon System Cost	-	-	2,121.900	-	-	99.910	-	-	60.641	-	-	106.047	-	-	-	-	-	106.047

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10	P-1 Line Item Number / Title: EP1700 / Conventional Munitions Demilitarization	Item Number / Title [DODIC]: EP1801 / Other Non-Army Service Demil Items (non-SMCA)

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 (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	23.888	6.755	9.898	8.647	-	8.647
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	23.888	6.755	9.898	8.647	-	8.647
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	23.888	6.755	9.898	8.647	-	8.647

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

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

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

Cost Elements	Prior Years			FY 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)
Support - Demilitarization Cost																		
TORPEDOES	-	-	23.888	-	-	2.992	-	-	9.898	-	-	8.647	-	-	-	-	-	8.647
SONOBUOYS	-	-	-	-	-	3.471	-	-	-	-	-	-	-	-	-	-	-	-
MINES	-	-	-	-	-	0.292	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Demilitarization Cost</i>	-	-	23.888	-	-	6.755	-	-	9.898	-	-	8.647	-	-	-	-	-	8.647
Gross/Weapon System Cost	-	-	23.888	-	-	6.755	-	-	9.898	-	-	8.647	-	-	-	-	-	8.647

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10	P-1 Line Item Number / Title: EP1700 / Conventional Munitions Demilitarization	Item Number / Title [DODIC]: EP1802 / Army Missile Demilitarization

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)	358.247	9.092	70.183	39.743	-	39.743
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	358.247	9.092	70.183	39.743	-	39.743
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	358.247	9.092	70.183	39.743	-	39.743

(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)
Support - Demilitarization Cost																		
MULTIPLE LAUNCH ROCKET SYSTEM	-	-	-	-	-	-	-	-	24.683	-	-	24.683	-	-	-	-	-	24.683
LANCE	-	-	-	-	-	2.275	-	-	1.540	-	-	-	-	-	-	-	-	-
TOW CD/R3	-	-	-	-	-	-	-	-	0.474	-	-	0.750	-	-	-	-	-	0.750
HELLFIRE	-	-	-	-	-	-	-	-	0.012	-	-	0.074	-	-	-	-	-	0.074
STINGER	-	-	-	-	-	-	-	-	0.060	-	-	0.143	-	-	-	-	-	0.143
PATRIOT	-	-	-	-	-	-	-	-	0.666	-	-	0.332	-	-	-	-	-	0.332
HONEST JOHN	-	-	-	-	-	-	-	-	0.500	-	-	0.470	-	-	-	-	-	0.470
MISSILE COMPONENTS	-	-	-	-	-	0.377	-	-	3.041	-	-	6.766	-	-	-	-	-	6.766
HAWK MOTORS	-	-	-	-	-	-	-	-	-	-	-	0.172	-	-	-	-	-	0.172
DEMIL PROCESS IMPROVEMENTS	-	-	-	-	-	2.823	-	-	2.266	-	-	-	-	-	-	-	-	-
TRANSPORTATION	-	-	-	-	-	0.267	-	-	5.275	-	-	4.244	-	-	-	-	-	4.244
CONTRACT - CONUS DEMIL	-	-	358.247	-	-	-	-	-	30.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Demilitarization Cost</i>	-	-	358.247	-	-	5.742	-	-	68.517	-	-	37.634	-	-	-	-	-	37.634
Support - Program Management Cost																		
Government Management	-	-	-	-	-	3.350	-	-	1.666	-	-	2.109	-	-	-	-	-	2.109
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	3.350	-	-	1.666	-	-	2.109	-	-	-	-	-	2.109

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: EP1700 / Conventional Munitions Demilitarization						Item Number / Title [DODIC]: EP1802 / Army Missile Demilitarization					
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	-	-	358.247	-	-	9.092	-	-	70.183	-	-	39.743	-	-	-	-	-	39.743

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10	P-1 Line Item Number / Title: EP1700 / Conventional Munitions Demilitarization	Item Number / Title [DODIC]: EP1803 / Non-Army Missile Demilitarization

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 (<i>Units in Each</i>)			-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)			23.051	1.772	2.528	2.946	-	2.946
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			23.051	1.772	2.528	2.946	-	2.946
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			23.051	1.772	2.528	2.946	-	2.946
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (<i>\$ in Millions</i>)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)			-	-	-	-	-	-

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

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)
Support Cost																		
HE MISSILES	-	-	23.051	-	-	1.772	-	-	2.528	-	-	2.946	-	-	-	-	-	2.946
<i>Subtotal: Support Cost</i>	-	-	23.051	-	-	1.772	-	-	2.528	-	-	2.946	-	-	-	-	-	2.946
Gross/Weapon System Cost	-	-	23.051	-	-	1.772	-	-	2.528	-	-	2.946	-	-	-	-	-	2.946

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

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support	P-1 Line Item Number / Title: EP2500 / ARMS Initiative
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ID Code (A=Service Ready, B=Not Service Ready):	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>)	350.874	2.504	3.575	3.646	-	3.646	3.719	3.797	3.861	3.935	-	375.911
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	350.874	2.504	3.575	3.646	-	3.646	3.719	3.797	3.861	3.935	-	375.911
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	350.874	2.504	3.575	3.646	-	3.646	3.719	3.797	3.861	3.935	-	375.911

(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 Armament Retooling and Manufacturing Support (ARMS) program reuses idle capacity at active and inactive Government-Owned, Contractor-Operated (GOCO) Army Ammunition Plants and GOCO Army Depots through commercialization. Congress enacted this program in the FY 1993 Defense Authorization Act (Public Law (PL) 102-484) and codified in FY 2000 (10 U.S.C. 4551-4555). ARMS resources are used for facility strategic reuse plans, marketing plans, building renovation and recapitalization, equipment purchase, relocation, or consolidation, as well as environmental baseline studies and site surveys to encourage commercial use of underutilized Army assets. The ARMS objectives include sustaining critical manufacturing capabilities and critical skills; reducing facility operating and maintenance costs; decreasing product cost; providing opportunities for small business; and accelerating private sector economic development, employment and investment. The ARMS program allows the Army to manage portions of the ammunition infrastructure as a commercial business. This management concept has allowed the Army to apply overhead costs across multiple commercial contracts to reduce operating costs.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support

P-1 Line Item Number / Title:
 EP2500 / ARMS Initiative

ID Code (A=Service Ready, B=Not Service Ready): **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	EP2500 / ARMS Initiative			- / 350.874	- / 2.504	- / 3.575	- / 3.646	- / -	- / 3.646
P-40	Total Gross/Weapon System Cost			- / 350.874	- / 2.504	- / 3.575	- / 3.646	- / -	- / 3.646

*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 Base procurement dollars in the amount of \$3.646 million support financial and marketing investments to attract revenue-producing tenants to locate on GOCO Army Ammunition Plants and GOCO Army Depots. The ARMS program reduces Army cost of ownership and maintains critical munitions industrial base skills. Revenues collected will be utilized to reduce overhead and total annual operating costs, improve and maintain existing buildings for current tenants, and perform improvements to other vacant buildings to entice potential tenants.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10	P-1 Line Item Number / Title: EP2500 / ARMS Initiative	Item Number / Title [DODIC]: EP2500 / ARMS Initiative

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)	350.874	2.504	3.575	3.646	-	3.646
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	350.874	2.504	3.575	3.646	-	3.646
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	350.874	2.504	3.575	3.646	-	3.646

(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)
Support - Industrial Facilities Cost																		
Hawthorne Army Depot	-	-	-	-	-	0.039	-	-	0.150	-	-	0.100	-	-	-	-	-	0.100
Holston Army Ammunition Plant (AAP)	-	-	-	-	-	-	-	-	0.100	-	-	0.400	-	-	-	-	-	0.400
Iowa Army Ammunition Plant (AAP)	-	-	-	-	-	0.723	-	-	0.690	-	-	0.100	-	-	-	-	-	0.100
Lake City Army Ammunition Plant (AAP)	-	-	-	-	-	-	-	-	1.635	-	-	2.100	-	-	-	-	-	2.100
Milan Army Ammunition Plant (AAP)	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-
Radford Army Ammunition Plant (AAP)	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-
Various Army Ammunition Plant (AAP)	-	-	350.874	-	-	0.192	-	-	-	-	-	0.046	-	-	-	-	-	0.046
<i>Subtotal: Support - Industrial Facilities Cost</i>	-	-	350.874	-	-	1.154	-	-	2.725	-	-	2.746	-	-	-	-	-	2.746
Support - Program Management Cost																		
Government Management	-	-	-	-	-	0.439	-	-	0.400	-	-	0.450	-	-	-	-	-	0.450
Contractor Management	-	-	-	-	-	0.911	-	-	0.450	-	-	0.450	-	-	-	-	-	0.450
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	1.350	-	-	0.850	-	-	0.900	-	-	-	-	-	0.900
Gross/Weapon System Cost	-	-	350.874	-	-	2.504	-	-	3.575	-	-	3.646	-	-	-	-	-	3.646