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

February 2016



Army

*Justification Book of
Procurement of W&TCV, Army*

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PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$2,418,721.00 to remain available for obligation until September 30, 2019.

The following Justification Books were prepared at a cost of \$1,209,553.00: 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.

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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)

27 Jan 2016

Appropriation -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
Procurement of W&TCV, Army	1,723,851	1,951,646	486,630	2,438,276
Total Department of the Army	1,723,851	1,951,646	486,630	2,438,276

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

27 Jan 2016

Appropriation -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 Total -----
Procurement of W&TCV, Army	2,265,177	153,544	2,418,721
Total Department of the Army	2,265,177	153,544	2,418,721

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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)

27 Jan 2016

Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2015 (Base & OCO)	FY 2016 Base Enacted	FY 2016 OCO Enacted	FY 2016 Total Enacted
01. Tracked Combat Vehicles	1,496,714	1,736,910	460,600	2,197,510
02. Weapons and Other Combat Vehicles	227,137	214,736	26,030	240,766
Total Procurement of W&TCV, Army	1,723,851	1,951,646	486,630	2,438,276

UNCLASSIFIED

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

27 Jan 2016

Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2017 Base	FY 2017 OCO	FY 2017 Total
-----	-----	-----	-----
01. Tracked Combat Vehicles	2,051,424	131,134	2,182,558
02. Weapons and Other Combat Vehicles	213,753	22,410	236,163
Total Procurement of W&TCV, Army	2,265,177	153,544	2,418,721

UNCLASSIFIED

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

27 Jan 2016

Appropriation: 2033A Procurement of W&TCV, 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: Tracked Combat Vehicles											

Tracked Combat Vehicles											
1	Stryker Vehicle			435,110		177,345				177,345	U
Modification of Tracked Combat Vehicles											
2	Stryker (MOD)	A		39,683		74,085		314,300		388,385	U
3	Stryker Upgrade	A				305,743	38	106,300	38	412,043	U
4	Fist Vehicle (MOD)			26,759							U
5	Bradley Program (MOD)	A		136,006		210,042				210,042	U
6	Howitzer, Med Sp Ft 155mm M109a6 (MOD)	A		45,411		57,879				57,879	U
7	Paladin Integrated Management (PIM)	A	18	247,400	30	273,850			30	273,850	U
8	Improved Recovery Vehicle (M88A2 Hercules)	A	36	122,451	47	187,129			47	187,129	U
9	Assault Bridge (Mod)			2,968		2,461				2,461	U
10	Assault Breacher Vehicle	A	7	36,088		2,975				2,975	U
11	M88 FOV MODS	A		1,975		14,878				14,878	U
12	Joint Assault Bridge	A	5	39,362	3	33,455			3	33,455	U
13	M1 Abrams Tank (MOD)	A		237,023		390,939		40,000		430,939	U
14	Abrams Upgrade Program	A	6	120,000							U
Support Equipment & Facilities											
15	Production Base Support (TCV-WTCV)			6,478		6,129				6,129	U
Total Tracked Combat Vehicles				1,496,714		1,736,910		460,600		2,197,510	

UNCLASSIFIED

Department of the Army
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 (Dollars in Thousands)

27 Jan 2016

Appropriation: 2033A Procurement of W&TCV, 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: Tracked Combat Vehicles									

Tracked Combat Vehicles									
1	Stryker Vehicle			71,680				71,680	U
Modification of Tracked Combat Vehicles									
2	Stryker (MOD)	A		74,348				74,348	U
3	Stryker Upgrade	A		444,561				444,561	U
4	Fist Vehicle (MOD)								U
5	Bradley Program (MOD)	A		276,433				276,433	U
6	Howitzer, Med Sp Ft 155mm M109a6 (MOD)	A		63,138				63,138	U
7	Paladin Integrated Management (PIM)	A	36	469,305	12	125,184	48	594,489	U
8	Improved Recovery Vehicle (M88A2 Hercules)	A	22	91,963			22	91,963	U
9	Assault Bridge (Mod)			3,465		5,950		9,415	U
10	Assault Breacher Vehicle	A		2,928				2,928	U
11	M88 FOV MODS	A		8,685				8,685	U
12	Joint Assault Bridge	A	9	64,752			9	64,752	U
13	M1 Abrams Tank (MOD)	A		480,166				480,166	U
14	Abrams Upgrade Program	A							U
Support Equipment & Facilities									
15	Production Base Support (TCV-WTCV)								U
Total Tracked Combat Vehicles				2,051,424		131,134		2,182,558	

UNCLASSIFIED

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

27 Jan 2016

Appropriation: 2033A Procurement of W&TCV, 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: Weapons and Other Combat Vehicles											

Weapons & Other Combat Vehicles											
16	Integrated Air Burst Weapon System Family	A									U
17	Mortar Systems			6,012		4,991		7,030		12,021	U
18	XM320 Grenade Launcher Module (GLM)	A		27,892		26,294				26,294	U
19	Compact Semi-Automatic Sniper System	A									U
20	Carbine	A		20,616		31,260				31,260	U
21	Common Remotely Operated Weapons Station			14,149		14,750		19,000		33,750	U
Mod of Weapons and Other Combat Veh											
22	MK-19 Grenade Machine Gun Mods										U
23	M777 Mods	A		18,166		10,070				10,070	U
24	M4 Carbine Mods	A		7,735		27,566				27,566	U
25	M2 50 Cal Machine Gun Mods	B		25,095		44,004				44,004	U
26	M249 Saw Machine Gun Mods			5,546		1,190				1,190	U
27	M240 Medium Machine Gun Mods	A		2,836		8,424				8,424	U
28	Sniper Rifles Modifications			3,769		980				980	U
29	M119 Modifications	A		72,718		20,599				20,599	U
30	Mortar Modification	A		7,903		6,300				6,300	U
31	Modifications Less Than \$5.0m (WOCV-WTCV)			2,089		3,737				3,737	U
Support Equipment & Facilities											
32	Items Less Than \$5.0m (WOCV-WTCV)			1,604		2,848				2,848	U

UNCLASSIFIED

Department of the Army
 FY 2017 President's Budget
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27 Jan 2016

Appropriation: 2033A Procurement of W&TCV, 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 02: Weapons and Other Combat Vehicles									

Weapons & Other Combat Vehicles									
16	Integrated Air Burst Weapon System Family	A		9,764				9,764	U
17	Mortar Systems			8,332		22,410		30,742	U
18	XM320 Grenade Launcher Module (GLM)	A		3,062				3,062	U
19	Compact Semi-Automatic Sniper System	A		992				992	U
20	Carbine	A		40,493				40,493	U
21	Common Remotely Operated Weapons Station			25,164				25,164	U
Mod of Weapons and Other Combat Veh									
22	MK-19 Grenade Machine Gun Mods			4,959				4,959	U
23	M777 Mods	A		11,913				11,913	U
24	M4 Carbine Mods	A		29,752				29,752	U
25	M2 50 Cal Machine Gun Mods	B		48,582				48,582	U
26	M249 Saw Machine Gun Mods			1,179				1,179	U
27	M240 Medium Machine Gun Mods	A		1,784				1,784	U
28	Sniper Rifles Modifications			971				971	U
29	M119 Modifications	A		6,045				6,045	U
30	Mortar Modification	A		12,118				12,118	U
31	Modifications Less Than \$5.0m (WOCV-WTCV)			3,157				3,157	U
Support Equipment & Facilities									
32	Items Less Than \$5.0m (WOCV-WTCV)			2,331				2,331	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:58:10

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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)

27 Jan 2016

Appropriation: 2033A Procurement of W&TCV, 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	
33	Production Base Support (WOCV-WTCV)			8,911		9,027				9,027	U
34	Industrial Preparedness			414		304				304	U
35	Small Arms Equipment (Soldier Enh Prog)			1,682		2,392				2,392	U
Total Weapons and Other Combat Vehicles				227,137		214,736		26,030		240,766	
Total Procurement of W&TCV, Army				1,723,851		1,951,646		486,630		2,438,276	

UNCLASSIFIED

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 (Dollars in Thousands)

27 Jan 2016

Appropriation: 2033A Procurement of W&TCV, 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	
33	Production Base Support (WOCV-WTCV)								U
34	Industrial Preparedness								U
35	Small Arms Equipment (Soldier Enh Prog)			3,155				3,155	U
Total Weapons and Other Combat Vehicles				213,753		22,410		236,163	
Total Procurement of W&TCV, Army				2,265,177		153,544		2,418,721	

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Army • President's Budget Submission FY 2017 • Procurement

Table of Contents

Line Item Table of Contents (by Appropriation then Line Number)..... ii
Exhibit P-40s..... 1

UNCLASSIFIED

UNCLASSIFIED

Army • President's Budget Submission FY 2017 • Procurement

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

Appropriation 2033A: Procurement of W&TCV, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	10	G85100	Stryker Vehicle.....	1
2	01	20	GM0100	Stryker (Mod).....	7
3	01	20	G85200	Stryker Upgrade.....	29
4	01	20	GZ2300	FIST Vehicle (Mod).....	38
5	01	20	GZ2400	Bradley Program (MOD).....	46
6	01	20	GA0400	Howitzer, Med Sp Ft 155MM M109A6 (MOD).....	62
7	01	20	GZ0410	Paladin Integrated Management (PIM).....	82
8	01	20	GA0570	Improved Recovery Vehicle (M88A2 HERCULES).....	92
9	01	20	GZ3250	Assault Bridge (Mod).....	101
10	01	20	G82925	Assault Breacher Vehicle.....	107
11	01	20	G80571	M88 FOV MODS.....	115
12	01	20	GZ3001	Joint Assault Bridge.....	120
13	01	20	GA0700	M1 Abrams Tank (MOD).....	128
14	01	20	GA0750	Abrams Upgrade Program.....	143
15	01	30	GA0050	Production Base Support (TCV-WTCV).....	151

UNCLASSIFIED

UNCLASSIFIED

Army • President's Budget Submission FY 2017 • Procurement

Appropriation 2033A: Procurement of W&TCV, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
16	02	10	G16101	Integrated Air Burst Weapon System Family.....	154
17	02	10	G02200	Mortar Systems.....	161
18	02	10	G01501	XM320 Grenade Launcher Module (GLM).....	169
19	02	10	G01507	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM.....	178
20	02	10	G13501	Carbine.....	182
21	02	10	G04700	Common Remotely Operated Weapons Station.....	191
22	02	20	GB3000	MK-19 Grenade Machine Gun MODS.....	196
23	02	20	GZ1700	M777 Mods.....	208
24	02	20	GB3007	M4 Carbine Mods.....	220
25	02	20	GB4000	M2 50 Cal Machine Gun MODS.....	229
26	02	20	GZ1290	M249 SAW Machine Gun MODS.....	240
27	02	20	GZ1300	M240 Medium Machine Gun MODS.....	251
28	02	20	GZ1500	Sniper Rifles Modifications.....	256
29	02	20	GC0401	M119 Modifications.....	258
30	02	20	G02100	Mortar Modification.....	269
31	02	20	GC0925	Modifications Less Than \$5.0m (WOCV-WTCV).....	274

UNCLASSIFIED

UNCLASSIFIED

Army • President's Budget Submission FY 2017 • Procurement

Appropriation 2033A: Procurement of W&TCV, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
32	02	30	GL3200	Items Less Than \$5.0m (WOCV-WTCV).....	276
33	02	30	GC0050	Production Base Support (WOCV-WTCV).....	278
34	02	30	GC0075	Industrial Preparedness.....	281
35	02	30	GC0076	Small Arms Equipment (Soldier Enh Prog).....	282

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: Tracked Combat Vehicles

P-1 Line Item Number / Title:
G85100 / Stryker Vehicle

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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>)	14,542.789	435.110	177.345	71.680	-	71.680	-	-	-	-	150.621	15,377.545
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14,542.789	435.110	177.345	71.680	-	71.680	-	-	-	-	150.621	15,377.545
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14,542.789	435.110	177.345	71.680	-	71.680	-	-	-	-	150.621	15,377.545

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

A dynamic asymmetric threat and operational environment demands full spectrum, strategically responsive, agile and dominant land forces. Immediate response by a lethal, versatile, tactically agile joint force capable of operational maneuver is essential to fulfilling the Army's Warfighting needs. The Stryker-equipped Brigade Combat Team (BCT) is this force. The use of a common platform/common chassis design reduces requirements for repair parts and logistics support in the area of operations.

The Stryker Brigade Combat Team (SBCT), equipped with Stryker Vehicles, can be used across the full spectrum of military operations. The SBCT deploys rapidly and conducts effective combat operations immediately on arrival to prevent, contain, stabilize, or resolve a conflict through shaping and decisive operations. Configurations of Stryker Vehicles are:

Infantry Carrier: The Infantry Carrier Vehicle (ICV) carries an infantry squad with individual equipment. The ICV also provides protected transport and supporting fires for the infantry squad during dismounted assault.

Reconnaissance Vehicle: The Reconnaissance Vehicle (RV) provides force situational awareness, gathering and transmitting real time intelligence while moving throughout the battlefield in close, complex, and urban terrain.

Mobile Gun System: The Mobile Gun System (MGS) supports dismounted infantry and engages the enemy in close combat in order to clear opposition and permit rapid movement, allowing the force to maintain the initiative, occupy and/or secure key objectives, and defeat strong points.

Mortar Carrier: The Mortar Carrier (MC) supports infantry units with screening obscurants, suppressive forces and on-call supporting fires. 120mm, 81mm, and 60mm mortars provide complementary capabilities with responsive, accurate and lethal indirect fire support to the dismounted infantry assault.

Commander's Vehicle: The Commander's Vehicle (CV) provides the brigade commanders and infantry battalion commanders with the means to receive data, analyze, prepare and transmit data, and control the forces/functions carrying out combat missions.

Fire Support Vehicle: The Fire Support Vehicle (FSV) provides automated enhanced surveillance, target acquisition, target identification, target tracking, target designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter.

Engineer Squad Vehicle: The Engineer Squad Vehicle (ESV) provides maneuver/mobility support capabilities which include obstacle clearing, in-stride breaching of surface mines, proofing of subsurface mines, and smoke generation for local protection.

Medical Evacuation Vehicle: The Medical Evacuation Vehicle (MEV) is the Battalion Aid Station for brigade units, providing treatment for serious injury and advanced trauma cases.

Antitank Guided Missile Vehicle: The Antitank Guided Missile Vehicle (ATGM) is the brigade's primary tank killing system. The ATGM reinforces the brigade's infantry battalion, reinforces the brigade reconnaissance squadron, and provides long-range direct fire.

Nuclear, Biological, Chemical Reconnaissance Vehicle: The Nuclear, Biological, Chemical Reconnaissance Vehicle (NBCRV) provides on the move and remote near-real-time nuclear, biological and chemical detection and surveillance to supply battlefield visualization of NBC hazards.

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: Tracked Combat Vehicles **P-1 Line Item Number / Title:** G85100 / Stryker Vehicle

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	435.110	177.345	71.680	-	71.680	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	435.110	177.345	71.680	-	71.680	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: Tracked Combat Vehicles

P-1 Line Item Number / Title:
 G85100 / Stryker Vehicle

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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)					
P-5	G85100 / Stryker Vehicle		A	- / 14,542.789	- / 435.110	- / 177.345	- / 71.680	- / -	- / 71.680
P-40	Total Gross/Weapon System Cost			- / 14,542.789	- / 435.110	- / 177.345	- / 71.680	- / -	- / 71.680

*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 \$71.680 million supports fielding of the 3rd Double V Hull (DVH) brigade to the 2nd Stryker Brigade Combat Team (SBCT), 2nd Infantry Division (2/2ID) at Joint Base Lewis McCord (JBLM). Also, supports processing of Technical Data Package (TDP) updates, and development of software updates, and program management. Supports the Active Army.

DVH exchange vehicles procured in FY 2016 and prior did not increase the Army Acquisition Objective (AAO) 3735 (Stryker Family of Vehicles AAO).

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-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: G85100 / Stryker Vehicle	Item Number / Title [DODIC]: G85100 / Stryker Vehicle
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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)	14,542.789	435.110	177.345	71.680	-	71.680
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	14,542.789	435.110	177.345	71.680	-	71.680
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	14,542.789	435.110	177.345	71.680	-	71.680

(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 Thousands)	-	-	-	-	-	-

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Infantry Carrier Vehicle (ICV)	1,390.492	1,972	2,742.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reconnaissance Vehicle (RV)	1,263.514	545	688.615	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anti-Tank Guided Missile Vehicle (ATGM)	2,602.835	133	346.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mortar Carrier (MC)	1,561.374	441	688.566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fire Support Vehicle (FSV)	1,410.505	188	265.175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineer Squad Vehicle (ESV)	2,358.387	168	396.209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commander's Vehicle (CV)	1,673.319	348	582.315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medical Evacuation Vehicle (MEV)	1,385.174	304	421.093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NBC Reconnaissance Vehicle (NBCRV)	2,072.226	274	567.790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile Gun System (MGS)	4,023.410	134	539.137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFE (ASIOE/COEI/AAL)	-	-	1,301.630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders (ECO)	-	-	165.935	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10						P-1 Line Item Number / Title: G85100 / Stryker Vehicle						Item Number / Title [DODIC]: G85100 / Stryker Vehicle					
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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Basic Issue Items (BII)	-	-	11.044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government Test	-	-	195.584	-	-	5.900	-	-	4.241	-	-	0.811	-	-	-	-	-	0.811
Contractor Support to Test	-	-	286.151	-	-	1.800	-	-	-	-	-	-	-	-	-	-	-	-
Refurbishment of Test Vehicles	-	-	11.899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Support (Govt)	-	-	611.897	-	-	42.578	-	-	29.033	-	-	21.337	-	-	-	-	-	21.337
Program Management Support (Contractor)	-	-	48.935	-	-	11.186	-	-	-	-	-	-	-	-	-	-	-	-
Logistics Engineer Support (Contractor)	-	-	235.026	-	-	6.970	-	-	24.728	-	-	25.499	-	-	-	-	-	25.499
Depot Level Repair Instruction/Equipment	-	-	95.829	-	-	10.956	-	-	2.549	-	-	-	-	-	-	-	-	-
System Fielding Support	-	-	512.909	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-
Vehicle Retrofit	-	-	1,501.014	-	-	-	-	-	1.168	-	-	-	-	-	-	-	-	-
Post Production Mods (unscheduled mods)	-	-	635.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares/ Authoriz'd Stock List ASL	-	-	275.314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment (STTE)	-	-	51.783	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training Devices	-	-	233.753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Technical Support (STS)	-	-	619.517	-	-	14.365	-	-	14.330	-	-	10.583	-	-	-	-	-	10.583
Data	-	-	4.266	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Double V Hull (DVH) Exchange	-	-	338.372	-	-	273.057	-	-	30.156	-	-	-	-	-	-	-	-	-
DVH Exchange GFE	-	-	20.470	-	-	6.789	-	-	9.238	-	-	-	-	-	-	-	-	-
DVH Exchange System Fielding Support	-	-	139.256	-	-	40.509	-	-	52.059	-	-	13.450	-	-	-	-	-	13.450
DVH Full Material Release	-	-	0.246	-	-	11.000	-	-	-	-	-	-	-	-	-	-	-	-
Survivability Enhancements	-	-	9.430	-	-	-	-	-	9.843	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	14,542.787	-	-	435.110	-	-	177.345	-	-	71.680	-	-	-	-	-	71.680
<i>Subtotal: Flyaway Cost</i>	-	-	14,542.787	-	-	435.110	-	-	177.345	-	-	71.680	-	-	-	-	-	71.680

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10						P-1 Line Item Number / Title: G85100 / Stryker Vehicle						Item Number / Title [DODIC]: G85100 / Stryker Vehicle					
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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	14,542.789	-	-	435.110	-	-	177.345	-	-	71.680	-	-	-	-	-	71.680

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	435.110	177.345	71.680	-	71.680
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	435.110	177.345	71.680	-	71.680

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GM0100 / Stryker (Mod)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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>)	207.778	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553	4,754.240	7,181.286
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	207.778	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553	4,754.240	7,181.286
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	207.778	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553	4,754.240	7,181.286

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Modifications to the Stryker Family of Vehicles (FOV) to resolve reliability, lethality, capability and performance degradation, safety, operational, and Chemical Detection and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) obsolescence issues. Primary efforts involve the incorporation of a 30mm weapon system onto a Flat Bottom Hull (FBH) Infantry Carrier Vehicle (ICV) and the application of Engineering Change Proposal 1 (ECP 1) engine, alternator, suspension, and in-vehicle upgrades into the Stryker Double "V" Hull (DVH) fleet.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GM0100 / Stryker (Mod)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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-3a	GM0100 / STRYKER MODIFICATION (Increase Performance)			- / 207.778	- / 39.683	- / 388.385	- / 74.348	- / -	- / 74.348
P-40	Total Gross/Weapon System Cost			- / 207.778	- / 39.683	- / 388.385	- / 74.348	- / -	- / 74.348

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GM0100 / STRYKER MODIFICATION (Increase Performance)			- / 93.924	- / 458.523	- / 549.852	- / 614.553	- / 4,754.240	- / 7,181.286
P-40	Total Gross/Weapon System Cost			- / 93.924	- / 458.523	- / 549.852	- / 614.553	- / 4,754.240	- / 7,181.286

*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 \$74.348 million supports the application of modifications required to achieve Mobile Gun System (MGS) Full Materiel Release (FMR); funds multiple fleet-wide modifications to address Stryker vehicle, chemical detection, and Command, Control, Communications, Computers, Intelligence (C4I) obsolescence, reliability, capability and performance degradation, safety, and operational-related issues; provides for maintenance of the Stryker test fleet to ensure test assets are positioned to provide accurate, verifiable test results; continues retrofit planning and site management efforts to ensure modification kits procured are applied in an efficient and effective fashion; designs and applies modifications to Stryker Training Aids, Devices, Simulators, and Simulations (TADSS) to ensure Stryker soldiers continue to train using equipment that reflects the configuration and behavior of the current fielded vehicles; develops Double V Hull (DVH) survivability changes to increase protection against Anti-Tank Guided Missiles (ATGM) and large caliber rounds; and provides for the fielding of a 30mm weapon system to meet a March 2015 United States Army Europe (USAREUR) Urgent Operational Needs Statement (ONS).

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Exhibit P-3a, Individual Modification: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GM0100 / Stryker (Mod)				Modification Number / Title: GM0100 / STRYKER MODIFICATION				

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>)	207.778	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553	4,754.240	7,181.286
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	207.778	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553	4,754.240	7,181.286
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	207.778	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553	4,754.240	7,181.286

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Modifications are needed to address safety and operational-related, and chassis, chemical detection, and Command, Control, Communications, Computer, and Intelligence (C4I) obsolescence issues within the Stryker fleet. Modifications to the Stryker Family of Vehicles (FoV) are also required to address mid and long-term deficiencies needed to achieve Mobile Gun System (MGS) Full Materiel Release (FMR) and increase direct and suppressive firepower of United States Army Europe (USAREUR) assets to satisfy an urgent operational need. Additionally, to ensure Stryker soldiers continue to receive maintenance training consistent with Army prescribed Stryker training programs, the procurement of system-specific training devices is required to support the emerging 91S Stryker Vehicle Maintainer training course.

Mobile Gun System (MGS) Full Materiel Release (FMR): The MGS variant has been granted Conditional Materiel Release (CMR) and efforts to correct deficiencies required to obtain FMR are ongoing. Modifications to correct MGS deficiencies include: Main Gun improvements (Turret system Electronic Unit (TSEU)-13 and coax low ammo chute), generation II air conditioning system, Stryker Reactive Armor Tiles II (SRAT II) rear door improvement, commanders display with shock mounts and color situational awareness, Extended Low Rate Initial Production (ELRIP) Electronic Handle Electronic Trigger (EHET), hydraulic circuit check valve, engine cold start warm-up circuit, carousel improvement, rammer improvement, and open protected hatches. Installation of hardware is conducted by field modification teams, subject to vehicle/hardware availability.

Fleet Modifications: Fleet modifications address changes to the vehicle configurations resulting from identified safety issues, performance degradation issues, obsolescence issues, Modified Table of Organization & Equipment (MTO&E) changes, or Operational Need Statements (ONS). Planned efforts include: Incorporation of SRAT II on DVH vehicles, JCAD Test and Retrofit, VRC-103 for the Commander's Vehicle (CV) variant, Energy Attenuating seats for Flat Bottom Hull (FBH) vehicles, Mortar Carrier Fire Control Computer, RMS6-L N2 Recuperator gauge, Improved Battery Box, Counter-Radio Electronic Warfare (CREW) Relocation kits, and troop heater improvements. Modifications will be conducted either during Reset (for DVH vehicles returning from Afghanistan) or by field modification teams, subject to vehicle/hardware availability.

C4I Obsolescence and Next Generation Items: Modifications are needed to address obsolescence issues with Command, Control, Communications, Computer, and Intelligence (C4I) components of the Stryker Vehicles. Efforts included are Mid-Tier Networking Vehicular Radio (MNVR), Vehicular Intercom Systems (VIS), Nett Warrior, DAGR Distribution Device (D3), Handheld Manpack, Small Form Fit (HMS), Managed switch, Warfighter Information Network-Tactical (WIN-T) restowage, A-Positioning Navigation & Timing (A-PNT) and Video Display Electronic Terminal (VDET) Replacement.

Test Fleet Maintenance: Funding provides for the ongoing maintenance of Stryker test vehicles and Stryker warehouse operations located at the Army's test centers (Aberdeen Proving Grounds, Yuma Proving Grounds, and Electronic Proving Grounds). Maintenance is required to ensure the test fleet is positioned to support testing needs and is in the appropriate condition to ensure accurate and verifiable test results.

Retrofit Planning and Site Management: Retrofit planning, kit material handling, and retrofit site management to support fleet-wide retrofits of the Stryker FoV.

Training Aids, Devices, Simulators, and Simulations (TADSS): Funding provides for the integration of the Vehicle Tactical Engagement Simulation System (V-TESS) and supports the United States Army Combined Arms Support Command (CASCOM) validated the requirement for the Stryker Vehicle Maintainer Training Course to support establishment of the Stryker-unique 91S Military Occupational Series

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

(MOS). The 91S training course requires purchase of the following training devices: Diagnostic Troubleshooting Trainers (DTTs), Anti-Tank Guided Missile Vehicle Part Task Trainers (PTTs), Full-Up Power Pack Part Task Trainers (FUPP PTTs), Mortar Carrier Part Task Trainers (MC PTTs) Mobile Gun System Hands-On Trainers (HOTs) and Remote Weapon Station (RWS) Hands-on Trainers.

Engineering Change Proposal 1 (ECP 1): ECP 1 incorporates a 910 amp alternator, in-vehicle network, 450 HP engine, and upgraded suspension that will restore vehicle space, weight, and power margin lost due to the addition of numerous kits integrated during prior deployment operations, and allow for the integration of the future Army Network. ECP 1 retrofit will be executed by a joint contractor and depot team in a production-like environment.

Engineering Change Proposal 2 (ECP 2): ECP 2 will integrate a medium caliber weapon, under armor Javelin fire capability, improved optics and targeting systems, and other capabilities into the Stryker fleet. These improvements will provide for increased under armor fire capability, target identification range, provide overmatch against peer threats and supporting infantry assault, and address obsolescence within the targeting and reconnaissance systems utilized on the Stryker Family of Vehicle (FoV).

Double V Hull (DVH) Survivability and Safety Mods: DVH survivability and safety modifications address changes to the DVH vehicle configuration driven by MTO&E and Operational Needs Statements. Efforts included are Driver's Station Enhancement 2 (DSE2), rear ramp gap plate, and integration of Stryker Reactive Armor Tiles (SRAT) II. Modifications will be conducted during Reset (for vehicles returning from Contingency Operations) or by field modification teams at unit location, subject to vehicle/hardware availability.

Stryker ONS Lethality: Addresses a lethality capability gap identified by 2nd Cavalry Regiment (2CR) in a March 2015 Urgent Operational Needs Statement (ONS). The ONS Lethality upgrade incorporates a 30mm weapon system onto the Flat Bottom Hull (FBH) Infantry Carrier Vehicle (ICV).

Program Management Support: Program management, engineering, and logistics support necessary to execute Stryker modifications to include Fleet Modifications, C4I Obsolescence and Next Generation items, DVH Survivability and Safety Modifications, ONS Lethality, ECP1 (beginning FY 2019), and ECP 2 (beginning FY 2019).

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION				
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	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		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
Procurement														
Modification Item 1 of 13: Mobile Gun System (MGS) Full Materiel Release(FMR)														
A Kits														
Recurring														
Hardware	573 / 30.350	- / -	175 / 0.413	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	748 / 30.763		
Subtotal: Recurring	- / 30.350	- / -	- / 0.413	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 30.763		
Non-Recurring														
Engineer Support	0 / 8.697	- / 1.318	- / 1.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.509		
Test	0 / 1.676	- / 0.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.945		
Subtotal: Non-Recurring	- / 10.373	- / 1.587	- / 1.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.454		
Subtotal: Mobile Gun System (MGS) Full Materiel Release(FMR)	573 / 40.723	- / 1.587	175 / 1.907	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	748 / 44.217		
Modification Item 2 of 13: Fleet Modifications														
A Kits														
Recurring														
Hardware	2,890 / 32.420	81 / 3.785	6,786 / 10.367	304 / 2.589	- / -	304 / 2.589	1,610 / 20.311	289 / 2.300	- / -	- / -	3,735 / 429.557	15,695 / 501.329		
Subtotal: Recurring	- / 32.420	- / 3.785	- / 10.367	- / 2.589	- / -	- / 2.589	- / 20.311	- / 2.300	- / -	- / -	- / 429.557	- / 501.329		
Non-Recurring														
Engineer Support	0 / 7.639	- / 3.262	- / 4.451	- / 5.969	- / -	- / 5.969	- / 1.640	- / -	- / -	- / -	- / 137.435	- / 160.396		
Test	0 / 2.157	- / 0.783	- / 6.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 58.637	- / 68.427		
Training	- / -	- / -	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.617	- / 1.887		
Subtotal: Non-Recurring	- / 9.796	- / 4.045	- / 11.571	- / 5.969	- / -	- / 5.969	- / 1.640	- / -	- / -	- / -	- / 197.689	- / 230.710		
Subtotal: Fleet Modifications	2,890 / 42.216	81 / 7.830	6,786 / 21.938	304 / 8.558	- / -	304 / 8.558	1,610 / 21.951	289 / 2.300	- / -	- / -	3,735 / 627.246	15,695 / 732.039		
Modification Item 3 of 13: Video Display Electronic Terminal (VDET)														
A Kits														
Recurring														
Hardware	664 / 19.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	664 / 19.012		
Subtotal: Recurring	- / 19.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.012		
Non-Recurring														
Engineer Support	0 / 0.043	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.043		
Test	0 / 0.136	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.136		

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GM0100 / Stryker (Mod)						Modification Number / Title: GM0100 / STRYKER MODIFICATION			
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
<i>Subtotal: Non-Recurring</i>	- / 0.179	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.179	
<i>Subtotal: Video Display Electronic Terminal (VDET)</i>	664 / 19.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	664 / 19.191	
Modification Item 4 of 13: C4I Obsolescence and Next Generation Items													
A Kits													
Recurring													
Hardware	233 / 10.526	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,735 / 94.951	3,968 / 105.477	
Fielding	0 / 0.166	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.497	- / 1.663	
<i>Subtotal: Recurring</i>	- / 10.692	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 96.448	- / 107.140	
Non-Recurring													
Engineer Support	0 / 12.631	- / 6.358	- / 1.353	- / 5.020	- / -	- / 5.020	- / 0.050	- / -	- / -	- / -	- / 229.231	- / 254.643	
Test	0 / 0.189	- / -	- / 0.100	- / 0.102	- / -	- / 0.102	- / 0.104	- / -	- / -	- / -	- / 4.465	- / 4.960	
<i>Subtotal: Non-Recurring</i>	- / 12.820	- / 6.358	- / 1.453	- / 5.122	- / -	- / 5.122	- / 0.154	- / -	- / -	- / -	- / 233.696	- / 259.603	
<i>Subtotal: C4I Obsolescence and Next Generation Items</i>	233 / 23.512	- / 6.358	- / 1.453	- / 5.122	- / -	- / 5.122	- / 0.154	- / -	- / -	- / -	3,735 / 330.144	3,968 / 366.743	
Modification Item 5 of 13: Block Mod Retrofit													
A Kits													
Recurring													
Hardware	2,336 / 24.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,336 / 24.918	
<i>Subtotal: Recurring</i>	- / 24.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.918	
<i>Subtotal: Block Mod Retrofit</i>	2,336 / 24.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,336 / 24.918	
Modification Item 6 of 13: Test Fleet Maintenance													
A Kits													
Recurring													
Labor (Contractor)	0 / 9.111	- / 4.611	- / 6.649	- / 8.090	- / -	- / 8.090	- / 8.265	- / 2.699	- / 2.799	- / 2.855	- / 70.754	- / 115.833	
<i>Subtotal: Recurring</i>	- / 9.111	- / 4.611	- / 6.649	- / 8.090	- / -	- / 8.090	- / 8.265	- / 2.699	- / 2.799	- / 2.855	- / 70.754	- / 115.833	
<i>Subtotal: Test Fleet Maintenance</i>	0 / 9.111	- / 4.611	- / 6.649	- / 8.090	- / -	- / 8.090	- / 8.265	- / 2.699	- / 2.799	- / 2.855	- / 70.754	- / 115.833	
Modification Item 7 of 13: Retrofit Planning and Site Management													
A Kits													
Recurring													
Labor (Contractor)	0 / 9.248	- / 5.280	- / 5.380	- / 5.483	- / -	- / 5.483	- / 5.587	- / 5.693	- / 5.801	- / 5.940	- / 147.213	- / 195.625	
<i>Subtotal: Recurring</i>	- / 9.248	- / 5.280	- / 5.380	- / 5.483	- / -	- / 5.483	- / 5.587	- / 5.693	- / 5.801	- / 5.940	- / 147.213	- / 195.625	
<i>Subtotal: Retrofit Planning and Site Management</i>	0 / 9.248	- / 5.280	- / 5.380	- / 5.483	- / -	- / 5.483	- / 5.587	- / 5.693	- / 5.801	- / 5.940	- / 147.213	- / 195.625	

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Exhibit P-3a, Individual Modification: PB 2017 Army									Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION				
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
Modification Item 8 of 13: Training Aids, Devices, Simulators and Simulations													
A Kits													
Recurring													
Hardware	- / -	- / -	- / -	15 / 15.986	- / -	15 / 15.986	9 / 22.741	- / -	2 / 7.622	1 / 3.177	4 / 19.589	31 / 69.115	
Life Cycle Management Plan	0 / 10.589	- / 4.547	- / 20.379	- / 2.528	- / -	- / 2.528	- / 6.388	- / 2.204	- / 0.882	- / 3.759	- / 162.721	- / 213.997	
Subtotal: Recurring	- / 10.589	- / 4.547	- / 20.379	- / 18.514	- / -	- / 18.514	- / 29.129	- / 2.204	- / 8.504	- / 6.936	- / 182.310	- / 283.112	
Subtotal: Training Aids, Devices, Simulators and Simulations	0 / 10.589	- / 4.547	- / 20.379	15 / 18.514	- / -	15 / 18.514	9 / 29.129	- / 2.204	2 / 8.504	1 / 6.936	4 / 182.310	31 / 283.112	
Modification Item 9 of 13: Engineering Change Proposal 1(ECP 1)													
A Kits													
Recurring													
Hardware	- / -	- / -	- / -	- / -	- / -	- / -	- / -	244 / 362.193	284 / 424.127	232 / 360.227	370 / 384.937	1,130 / 1,531.484	
Fielding	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.987	- / 4.733	- / 51.539	- / 187.749	- / 248.008	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 366.180	- / 428.860	- / 411.766	- / 572.686	- / 1,779.492	
Non-Recurring													
Labor (Logistics Product Updates)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.716	- / 20.716	
Test	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.763	- / 178.321	- / 179.084	
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.763	- / 199.037	- / 199.800	
Subtotal: Engineering Change Proposal 1(ECP 1)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	244 / 366.180	284 / 428.860	232 / 412.529	370 / 771.723	1,130 / 1,979.292	
Modification Item 10 of 13: Engineering Change Proposal 2 (ECP 2)													
A Kits													
Recurring													
Hardware	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 51.742	121 / 71.926	152 / 91.287	2,853 / 1,805.112	3,201 / 2,020.067	
Fielding	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.670	- / 1.128	- / 15.469	- / 19.087	- / 42.354	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 52.412	- / 79.054	- / 106.756	- / 1,824.199	- / 2,062.421	
Non-Recurring													
Test	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.985	- / 163.704	- / 166.689	
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.985	- / 163.704	- / 166.689	
Subtotal: Engineering Change Proposal 2 (ECP 2)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 52.412	121 / 79.054	152 / 109.741	2,853 / 1,987.903	3,201 / 2,229.110	

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION				
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	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		
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>					
Modification Item 11 of 13: Double V Hull (DVH) Survivability and Safety Mods														
A Kits														
Recurring														
Hardware	1,224 / 10.928	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,224 / 10.928		
Subtotal: Recurring	- / 10.928	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.928		
Non-Recurring														
Labor (Engineering Support)	- / -	- / -	- / 9.955	- / 3.923	- / -	- / 3.923	- / -	- / -	- / -	- / -	- / -	- / 13.878		
Subtotal: Non-Recurring	- / -	- / -	- / 9.955	- / 3.923	- / -	- / 3.923	- / -	- / -	- / -	- / -	- / -	- / 13.878		
Subtotal: Double V Hull (DVH) Survivability and Safety Mods	1,224 / 10.928	- / -	- / 9.955	- / 3.923	- / -	- / 3.923	- / -	- / -	- / -	- / -	- / -	1,224 / 24.806		
Modification Item 12 of 13: Operational Needs Statement (ONS) Lethality														
A Kits														
Recurring														
Fielding	- / -	- / -	- / 0.916	- / 11.205	- / -	- / 11.205	- / 11.205	- / -	- / -	- / -	- / -	- / 23.326		
Hardware	- / -	- / -	83 / 307.215	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	83 / 307.215		
Subtotal: Recurring	- / -	- / -	- / 308.131	- / 11.205	- / -	- / 11.205	- / 11.205	- / -	- / -	- / -	- / -	- / 330.541		
Non-Recurring														
Production Facilitization	- / -	- / -	- / 4.329	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.329		
Logistics Support (Contractor)	- / -	- / -	- / -	- / 4.811	- / -	- / 4.811	- / 9.622	- / 9.805	- / -	- / -	- / -	- / 24.238		
Subtotal: Non-Recurring	- / -	- / -	- / 4.329	- / 4.811	- / -	- / 4.811	- / 9.622	- / 9.805	- / -	- / -	- / -	- / 28.567		
Subtotal: Operational Needs Statement (ONS) Lethality	- / -	- / -	83 / 312.460	- / 16.016	- / -	- / 16.016	- / 20.827	- / 9.805	- / -	- / -	- / -	83 / 359.108		
Modification Item 13 of 13: Program Management Support														
A Kits														
Recurring														
Program Management Support	0 / 3.518	- / 4.871	- / 7.932	- / 7.932	- / -	- / 7.932	- / 8.011	- / 17.230	- / 24.834	- / 76.552	- / 627.078	- / 777.958		
Subtotal: Recurring	- / 3.518	- / 4.871	- / 7.932	- / 7.932	- / -	- / 7.932	- / 8.011	- / 17.230	- / 24.834	- / 76.552	- / 627.078	- / 777.958		
Subtotal: Program Management Support	0 / 3.518	- / 4.871	- / 7.932	- / 7.932	- / -	- / 7.932	- / 8.011	- / 17.230	- / 24.834	- / 76.552	- / 627.078	- / 777.958		
Subtotal: Procurement, All Modification Items	7,920 / 193.954	81 / 35.084	7,044 / 388.053	319 / 73.638	- / -	319 / 73.638	1,619 / 93.924	608 / 458.523	407 / 549.852	385 / 614.553	10,697 / 4,744.371	29,080 / 7,151.952		
Installation														

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GM0100 / Stryker (Mod)						Modification Number / Title: GM0100 / STRYKER MODIFICATION			
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Modification Item 1 of 13: Mobile Gun System (MGS) Full Materiel Release(FMR)	199 / 2.061	374 / 3.866	56 / 0.332	119 / 0.710	- / -	119 / 0.710	- / -	- / -	- / -	- / -	- / -	748 / 6.969	
Modification Item 2 of 13: Fleet Modifications	2,890 / 0.000	81 / -	4,524 / -	2,566 / -	- / -	2,566 / -	1,610 / -	289 / -	- / -	- / -	3,735 / -	15,695 / -	
Modification Item 3 of 13: Video Display Electronic Terminal (VDET)	664 / 0.509	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	664 / 0.509	
Modification Item 4 of 13: C4I Obsolescence and Next Generation Items	176 / 0.826	57 / 0.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,735 / 9.869	3,968 / 10.963	
Modification Item 5 of 13: Block Mod Retrofit	2,336 / 9.779	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,336 / 9.779	
Modification Item 9 of 13: Engineering Change Proposal 1(ECP 1)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	122 / -	240 / -	240 / -	528 / -	1,130 / -	
Modification Item 10 of 13: Engineering Change Proposal 2 (ECP 2)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / -	80 / -	3,106 / -	3,201 / -	
Modification Item 11 of 13: Double V Hull (DVH) Survivability and Safety Mods	774 / 0.649	450 / 0.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,224 / 1.114	
Modification Item 12 of 13: Operational Needs Statement (ONS) Lethality	0 / 0.000	- / -	- / -	16 / -	- / -	16 / -	67 / -	- / -	- / -	- / -	- / -	83 / -	
Subtotal: Installation	7,039 / 13.824	962 / 4.599	4,580 / 0.332	2,701 / 0.710	- / -	2,701 / 0.710	1,677 / -	411 / -	255 / -	320 / -	11,104 / 9.869	29,049 / 29.334	
Total													
Total Cost (Procurement + Support + Installation)	207.778	39.683	388.385	74.348	-	74.348	93.924	458.523	549.852	614.553	4,754.240	7,181.286	

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 1 of 13: Mobile Gun System (MGS) Full Materiel Release(FMR)

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Feb 2016					
Delivery Dates		May 2016					

Installation Information

Method of Implementation: Installs conducted by Contractor retrofit team.

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	199 / 2.061	374 / 3.866	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	573 / 5.927
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	56 / 0.332	119 / 0.710	- / -	119 / 0.710	- / -	- / -	- / -	- / -	- / -	175 / 1.042
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	199 / 2.061	374 / 3.866	56 / 0.332	119 / 0.710	- / -	119 / 0.710	- / -	- / -	- / -	- / -	- / -	748 / 6.969

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	573	-	-	-	-	-	175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	199	93	93	94	94	-	-	28	28	29	30	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 2 of 13: Fleet Modifications

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, LLC	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019		
Delivery Dates	Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019		

Installation Information

Method of Implementation: Prime contractor to produce hardware, installation by both Depot and contractor personnel

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	2,890 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	2,890 / 0.000
FY 2015	0 / 0.000	81 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	81 / -
FY 2016	0 / 0.000	- / -	4,524 / -	2,262 / -	- / -	2,262 / -	- / -	- / -	- / -	- / -	- / -	6,786 / -
FY 2017	0 / 0.000	- / -	- / -	304 / -	- / -	304 / -	- / -	- / -	- / -	- / -	- / -	304 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	1,610 / -	- / -	- / -	- / -	- / -	1,610 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	289 / -	- / -	- / -	- / -	289 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,735 / -	3,735 / -
Total	2,890 / 0.000	81 / -	4,524 / -	2,566 / -	- / -	2,566 / -	1,610 / -	289 / -	- / -	- / -	3,735 / -	15,695 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	2,890	-	81	-	-	-	-	6,786	-	-	304	-	-	-	1,610	-	-	-	289	-	-	-	-	-	-	-	-	-	-	-	3,735	15,695
Out	2,890	-	-	81	-	-	-	2,262	2,262	2,262	-	304	-	-	-	805	805	-	-	-	144	145	-	-	-	-	-	-	-	-	3,735	15,695

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 3 of 13: Video Display Electronic Terminal (VDET)

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Combination of Army Depot personnel and contractors at a government facility.

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	664 / 0.509	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	664 / 0.509
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	664 / 0.509	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	664 / 0.509

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	664	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	664
Out	664	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	664

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 4 of 13: C4I Obsolescence and Next Generation Items

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C.	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017			
Delivery Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018			

Installation Information

Method of Implementation: Combination of Army Depot personnel and contractors at a government facility.

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	176 / 0.826	57 / 0.268	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	233 / 1.094
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,735 / 9.869	3,735 / 9.869
Total	176 / 0.826	57 / 0.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,735 / 9.869	3,968 / 10.963

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	233	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,735	3,968
Out	176	-	-	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,735	3,968

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 5 of 13: Block Mod Retrofit

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C.	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months):	Production Leadtime (in Months):

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Combination of Army Depot personnel and contractors at a government facility.

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	2,336 / 9.779	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	2,336 / 9.779
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2,336 / 9.779	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,336 / 9.779

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	2,336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,336
Out	2,336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,336

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION
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Modification Item 6 of 13: Test Fleet Maintenance

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C	Manufacturer Location: Sterling Heights, Michigan
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021

Installation Information

Method of Implementation (Organic): Maintenance is provided by contractor at government test sites.	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION
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Modification Item 7 of 13: Retrofit Planning and Site Management

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C	Manufacturer Location: Sterling Heights, Michigan
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Administrative Leadtime (in Months): 5	Production Leadtime (in Months):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Feb 2015	Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021
Delivery Dates	Feb 2015	Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021

Installation Information

Method of Implementation (Organic): Prime Contractor	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION
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Modification Item 8 of 13: Training Aids, Devices, Simulators and Simulations

Manufacturer Information

Manufacturer Name: Rockwell Collins Simulation & Training	Manufacturer Location: Cedar Rapids, Iowa
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 7
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Aug 2015	Aug 2016	Aug 2017	Aug 2018	Aug 2019	Aug 2020	Aug 2021

Installation Information

Method of Implementation (Organic): Contractor	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 9 of 13: Engineering Change Proposal 1(ECP 1)

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Nov 2018	Nov 2019	Nov 2020
Delivery Dates					Feb 2019	Feb 2020	Feb 2021

Installation Information

Method of Implementation: Prime Contractor and depot team

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	122 / -	122 / -	- / -	- / -	244 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	118 / -	166 / -	- / -	284 / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / -	158 / -	232 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	370 / -	370 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	122 / -	240 / -	240 / -	528 / -	1,130 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	20	50	60	60	60	60	60	60	60	60	60	510	1,130
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	50	50	60	60	60	60	60	60	60	60	528	1,130

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 10 of 13: Engineering Change Proposal 2 (ECP 2)

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C.	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 15

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Apr 2019	Nov 2019	Nov 2020
Delivery Dates					Jul 2020	Feb 2021	Feb 2022

Installation Information

Method of Implementation: Prime Contractor and depot team

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / -	60 / -	- / -	75 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / -	101 / -	121 / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	152 / -	152 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,853 / -	2,853 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / -	80 / -	3,106 / -	3,201 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	20	20	20	20	20	3,086	3,201
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	20	20	20	20	3,106	3,201

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 11 of 13: Double V Hull (DVH) Survivability and Safety Mods

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C.	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017				
Delivery Dates		May 2016	May 2017				

Installation Information

Method of Implementation: Prime Contractor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	774 / 0.649	450 / 0.465	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	1,224 / 1.114
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	774 / 0.649	450 / 0.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,224 / 1.114

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4																														
In	1,224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	774	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Modification Item 12 of 13: Operational Needs Statement (ONS) Lethality

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C.	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 15

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016					
Delivery Dates		Jul 2017					

Installation Information

Method of Implementation: Prime Contactor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	16 / -	- / -	16 / -	67 / -	- / -	- / -	- / -	- / -	83 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	16 / -	- / -	16 / -	67 / -	- / -	- / -	- / -	- / -	83 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	16	22	22	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION
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Modification Item 13 of 13: Program Management Support

Manufacturer Information

Manufacturer Name: PM SBCT and GM GDLS Defense Group, L.L.C.	Manufacturer Location: Warren and Sterling Heights, Michigan
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Administrative Leadtime (<i>in Months</i>): 3	Production Leadtime (<i>in Months</i>):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020

Installation Information

Method of Implementation (Organic): Government and contractor personnel	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 G85200 / Stryker Upgrade

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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>)	-	-	130	123	-	123	70	-	-	-	-	323
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-	-	1,441.741
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-	-	1,441.741
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-	-	1,441.741

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	3,169.562	3,614.317	-	3,614.317	6,792.043	-	-	-	-	4,463.594

Description:

A dynamic, asymmetric threat and operational environment demands full spectrum, strategically responsive, agile and dominant land forces. Immediate response by a lethal, versatile, tactically agile joint force capable of operational maneuver is essential to fulfilling the Army's Warfighting needs. The Stryker-equipped Brigade Combat Team (BCT) is this force. The use of a common platform/common chassis design reduces requirements for repair parts and logistics support in the area of operations. In response to operational needs identified in the Theater of operations, the Double V Hull (DVH) survivability enhancement was approved for development and production by Acquisition Decision Memorandums (ADM) signed April 2010 and May 2011, respectively. The May 2011 ADM approved production of two Brigades, a 3rd DVH Brigade was approved in September 2011 with a 4th approved in September 2014. A DVH brigade is constructed through an exchange effort by which components and mission equipment packages are removed from flat bottom Strykers to be reassembled in the DVH structure along with the associated DVH-unique components. In May 2012, Phase 1 (Technology Development), Stryker Engineer Change Proposal 1 (ECP 1) development effort was approved to provide power generation, suspension, and network upgrades to restore Stryker DVH Space, Weight, and Power-Cooling (SWaP-C) lost as a result of incorporating vehicle changes to counter threats encountered during deployment operations. In May 2013, Phase II (Engineering and Manufacturing Development) development was approved. The ECP1 production decision is planned for 3rd quarter FY 2016. Upon successful production decision, ECP 1 will be incorporated into the build of the 4th DVH-equipped Stryker Brigade using the exchange process. The Stryker Brigade Combat Team (SBCT), equipped with ECP 1 DVH vehicles, can be used across the full spectrum of military operations. The SBCT deploys rapidly and conducts effective combat operations immediately on arrival to prevent, contain, stabilize, or resolve a conflict through shaping and decisive operations. Configurations of Stryker ECP1 DVH vehicles are:

DVH w/ECP1 Infantry Carrier: The DVH w/ECP1 Infantry Carrier Vehicle (ICVV) carries an infantry squad with individual equipment. The ICVV also provides protected transport and supporting fires for the infantry squad during dismounted assault. DVH w/ECP1 Infantry Carrier Vehicles with a Scout Dismount Kit provide for dismounted force situational awareness, gathering and transmitting real time intelligence while moving throughout the battlefield in close, complex, and urban terrain.

DVH w/ECP1 Mortar Carrier: The DVH w/ECP1 Mortar Carrier (MCVV) supports infantry units with screening obscurants, suppressive forces and on-call supporting fires. 120mm, 81mm, and 60mm mortars provide complementary capabilities with responsive, accurate and lethal indirect fire support to the dismounted infantry assault.

DVH w/ECP1 Commander's Vehicle: The DVH w/ECP 1 Commander's Vehicle (CVV) provides the brigade commanders and infantry battalion commanders with the means to receive information and data, analyze, prepare and transmit data, and control the forces/functions carrying out combat missions.

DVH w/ECP1 Fire Support Vehicle: The DVH w/ECP 1 Fire Support Vehicle (FSVV) provides automated enhanced surveillance, target acquisition, target identification, target tracking, target designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles		P-1 Line Item Number / Title: G85200 / Stryker Upgrade
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203735A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	

DVH w/ECP1 Engineer Squad Vehicle: The DVH w/ECP 1 Engineer Squad Vehicle (ESVV) provides maneuver/mobility support capabilities which include obstacle clearing, in-stride breaching of surface mines, proofing of subsurface mines, and smoke generation for local protection.

DVH w/ECP1 Medical Evacuation Vehicle: The DVH w/ECP 1 Medical Evacuation Vehicle (MEVV) is the Battalion Aid Station for brigade units, providing treatment for serious injury and advanced trauma cases.

DVH w/ECP1 Antitank Guided Missile Vehicle: The DVH w/ECP 1 Antitank Guided Missile Vehicle (ATGV) is the brigade's primary tank killing system. The ATGV reinforces the brigade's infantry battalion, reinforces the brigade reconnaissance squadron, and provides long-range direct fire.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	130	123	-	123	70	-	-	-
	Total Obligation Authority	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-
Total: Secondary Distribution	Quantity	-	130	123	-	123	70	-	-	-
	Total Obligation Authority	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** G85200 / Stryker Upgrade

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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	G85200 / Stryker Upgrade	P-5a, P-21	A	- / -	- / -	130 / 412.043	123 / 444.561	- / -	123 / 444.561
P-40	Total Gross/Weapon System Cost			- / -	- / -	130 / 412.043	123 / 444.561	- / -	123 / 444.561

*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 \$444.561 million supports the conversion of 123 Stryker Flat Bottom vehicles configured as a Double V Hull (DVH) with Engineering Change Proposal 1 (ECP 1). These systems will support the fielding of a 4th DVH-equipped Stryker Brigade Combat Team (SBCT). ECP 1-configured DVH vehicles will provide increased electrical power, mechanical power, weight margin, and cooling. Combined with a digital backbone, the enhanced DVH fleet will be able to host the future network while maintaining protection and mobility characteristics. Supports the Active Army.

Note: FY 2016 Stryker Upgrade quantity is 130, vice 38 as shown on the P-1 exhibit, and includes both Base and OCO funded upgrades.

DVH w/ECP 1 vehicle quantities do not increase the Stryker Family of Vehicles (FoV) Army Acquisition Objective (AAO) of 3,735 systems.

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: 2033A / 01 / 20				P-1 Line Item Number / Title: G85200 / Stryker Upgrade			Item Number / Title [DODIC]: G85200 / Stryker Upgrade		
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)				-	-	130	123	-	123
Gross/Weapon System Cost (\$ in Millions)				-	-	412.043	444.561	-	444.561
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	-	412.043	444.561	-	444.561
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				-	-	412.043	444.561	-	444.561
<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 Thousands)				-	-	3,169.562	3,614.317	-	3,614.317

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
DVH w/ECP1 Infantry Carrier Vehicle ^(†)	-	-	-	-	-	-	2,862.674	89	254.778	2,968.821	56	166.254	-	-	-	2,968.821	56	166.254
DVH w/ECP1 Anti-Tank Guided Missile Veh ^(†)	-	-	-	-	-	-	3,259.778	9	29.338	-	-	-	-	-	-	-	-	-
DVH w/ECP1 Mortar Carrier Vehicle ^(†)	-	-	-	-	-	-	3,290.500	6	19.743	3,187.280	25	79.682	-	-	-	3,187.280	25	79.682
DVH w/ECP1 Fire Support Vehicle ^(†)	-	-	-	-	-	-	3,207.600	10	32.076	-	-	-	-	-	-	-	-	-
DVH w/ECP1 Engineer Squad Vehicle ^(†)	-	-	-	-	-	-	3,394.500	6	20.367	3,378.857	7	23.652	-	-	-	3,378.857	7	23.652
DVH w/ECP1 Commander's Vehicle ^(†)	-	-	-	-	-	-	3,247.400	5	16.237	3,071.500	16	49.144	-	-	-	3,071.500	16	49.144
DVH w/ECP1 Medical Evacuation Vehicle ^(†)	-	-	-	-	-	-	3,180.000	5	15.900	3,130.368	19	59.477	-	-	-	3,130.368	19	59.477
Government Furnished Equipment (GFE)	-	-	-	-	-	-	-	-	4.538	-	-	6.087	-	-	-	-	-	6.087
Program Management Support (Govt)	-	-	-	-	-	-	-	-	17.149	-	-	24.316	-	-	-	-	-	24.316

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20						P-1 Line Item Number / Title: G85200 / Stryker Upgrade						Item Number / Title [DODIC]: G85200 / Stryker Upgrade					
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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
System Fielding Support	-	-	-	-	-	-	-	-	1.917	-	-	35.949	-	-	-	-	-	35.949
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	412.043	-	-	444.561	-	-	-	-	-	444.561
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	412.043	-	-	444.561	-	-	-	-	-	444.561
Gross/Weapon System Cost	-	-	-	-	-	-	3,169.562	130	412.043	3,614.317	123	444.561	-	-	-	3,614.317	123	444.561

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	130	123	-	123
	Total Obligation Authority	-	412.043	444.561	-	444.561
Total: Secondary Distribution	Quantity	-	130	123	-	123
	Total Obligation Authority	-	412.043	444.561	-	444.561

(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: 2033A / 01 / 20	P-1 Line Item Number / Title: G85200 / Stryker Upgrade	Item Number / Title [DODIC]: G85200 / Stryker Upgrade
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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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
DVH w/ECP1 Infantry Carrier Vehicle ^(†)		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Jul 2016	Jun 2017	89	2,862.674	N		
DVH w/ECP1 Infantry Carrier Vehicle ^(†)		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	May 2017	Aug 2018	56	2,968.821	N		
DVH w/ECP1 Anti-Tank Guided Missile Veh ^(†)		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Jul 2016	Dec 2017	9	3,259.778	N		
DVH w/ECP1 Mortar Carrier Vehicle ^(†)		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Jul 2016	Oct 2017	6	3,290.500	N		
DVH w/ECP1 Mortar Carrier Vehicle ^(†)		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	May 2017	Nov 2018	25	3,187.280	N		
DVH w/ECP1 Fire Support Vehicle ^(†)		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Jul 2016	Sep 2017	10	3,207.600	N		
DVH w/ECP1 Engineer Squad Vehicle ^(†)		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Jul 2016	Aug 2017	6	3,394.500	N		
DVH w/ECP1 Engineer Squad Vehicle ^(†)		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	May 2017	Oct 2018	7	3,378.857	N		
DVH w/ECP1 Commander's Vehicle ^(†)		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Jul 2016	Jul 2017	5	3,247.400	N		
DVH w/ECP1 Commander's Vehicle ^(†)		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	May 2017	Jul 2018	16	3,071.500	N		
DVH w/ECP1 Medical Evacuation Vehicle ^(†)		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Jul 2016	Nov 2017	5	3,180.000	N		
DVH w/ECP1 Medical Evacuation Vehicle ^(†)		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	May 2017	Dec 2018	19	3,130.368	N		

^(†) 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: 2033A / 01 / 20	P-1 Line Item Number / Title: G85200 / Stryker Upgrade	Item Number / Title [DODIC]: G85200 / Stryker Upgrade
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
DVH w/ECP1 Infantry Carrier Vehicle																																	
	1	2016	ARMY	89	24	65	4	1	3	8	8	8	8	10	10	5														-			
	1	2017	ARMY	56	-	56	-	-	-	-	-	-	-	-	-	-	5	5	7	4	4	4	4	4	3	4	4	8	-				
DVH w/ECP1 Anti-Tank Guided Missile Veh																																	
	2	2016	ARMY	9	-	9	-	-	1	2	2	2	2																-				
DVH w/ECP1 Mortar Carrier Vehicle																																	
	3	2016	ARMY	6	-	6	1	3	2																				-				
	3	2017	ARMY	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-	1	5	3	3	3	4	3	3		-					
DVH w/ECP1 Fire Support Vehicle																																	
	4	2016	ARMY	10	1	9	4	5																					-				
DVH w/ECP1 Engineer Squad Vehicle																																	
	5	2016	ARMY	6	5	1	1																						-				
	5	2017	ARMY	7	-	7	-	-	-	-	-	-	-	-	-	-	-	2	5										-				
DVH w/ECP1 Commander's Vehicle																																	
	6	2016	ARMY	5	5	-																							-				
	6	2017	ARMY	16	-	16	-	-	-	-	-	-	-	-	5	5	5	1											-				
DVH w/ECP1 Medical Evacuation Vehicle																																	
	7	2016	ARMY	5	-	5	-	1	4																				-				
	7	2017	ARMY	19	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	3	3	3	3		-					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 01 / 20	P-1 Line Item Number / Title: G85200 / Stryker Upgrade	Item Number / Title [DODIC]: G85200 / Stryker Upgrade
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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	GM GDLS Defense Group L.L.C. - Shelby Township	10	10	60	12	10	11	21	6	8	14	22
2	GM GDLS Defense Group L.L.C. - Shelby Township	10	10	60	12	10	11	21	6	8	14	22
3	GM GDLS Defense Group L.L.C. - Shelby Township	10	10	60	12	10	11	21	6	8	14	22
4	GM GDLS Defense Group L.L.C. - Shelby Township	10	10	60	12	10	11	21	6	8	14	22
5	GM GDLS Defense Group L.L.C. - Shelby Township	10	10	60	12	10	11	21	6	8	14	22
6	GM GDLS Defense Group L.L.C. - Shelby Township	10	10	60	12	10	11	21	6	8	14	22
7	GM GDLS Defense Group L.L.C. - Shelby Township	10	10	60	12	10	11	21	6	8	14	22

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

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

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GZ2300 / FIST Vehicle (Mod)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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>)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Bradley Fire Support Team (BFIST) vehicle replaces the aging M981 Fire Support Vehicle used by the Fire Support Team (FIST) that is in the Combined Arms Battalion. The FIST contributes to success on the battlefield by accurately locating and designating targets and then combining this information to develop and execute fire support plans. The BFIST allows fire support operations to be performed on the battlefield in vehicles with the same signature, survivability, and mobility as the other Bradleys in the maneuver units it supports. The BFIST consists of three variants; M7, M7 BFIST Situational Awareness (SA) and A3 BFIST.

A3 BFIST: The A3 BFIST integrates a fire support Mission Equipment Package (MEP) with the technology and capability advancements of the baseline A3 Bradley digital architecture. The A3 BFIST requires the integration of four complex software packages; Forward Observer System (FOS), Force 21 Battle Command Brigade and Below (FBCB2), FIST MEP, and the baseline A3 Bradley vehicle which are managed by four different primary contractor and government organizations. With the addition of the FS3, the FIST mission will now be able to detect, recognize and identify targets at a greater range, meeting the Operational Requirements Document (ORD). In addition, the BFIST with Fire Support Sensor System (FS3) will now be able to designate the selected target while under armor, and with the greater distance, both capabilities increase crew survivability.

M7 BFIST: The M7 BFIST integrates a fire support Mission Equipment Package (MEP) onto the baseline Operation Desert Storm (ODS) Bradley vehicle. The M7 BFIST requires the integration of four complex software packages; Forward Observer System (FOS), Force 21 Battle Command Brigade and Below (FBCB2), FIST MEP, and the baseline ODS Bradley vehicle which are managed by four different primary contractors and government organizations. Any modifications needed to the baseline vehicle to integrate the MEP are added as an Engineering Change Proposal (ECP). The M7 BFIST has transitioned to the M7 BFIST Situational Awareness (SA) Variant.

In order to maintain commonality with the baseline Bradley Operation Desert Storm (ODS) SA vehicle, the M7 BFIST is transitioning to the M7 BFIST SA vehicle. The M7 BFIST SA will have the same capabilities as the ODS-SA platform. Additionally, M7 BFIST SA no longer has the M7 BFIST obsolescence issues because of the A3 like digital architecture of the ODS-SA baseline vehicle. With the addition of the FS3, the FIST mission will be able to detect, recognize, identify, and designate targets at a greater range, meeting the Operational Requirements Document (ORD), with the greater distance, both capabilities are met, which give the M7 SA the same crew survivability as the A3 BFIST.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles	P-1 Line Item Number / Title: GZ2300 / FIST Vehicle (Mod)
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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: 0203735A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
	Total Obligation Authority	2.045	-	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.714	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	26.759	-	-	-	-	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GZ2300 / FIST Vehicle (Mod)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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-3a	GZ2300 / FS3 on A3 BFIST / M7 BFIST SA (Increase Performance)			- / 1,223.427	- / 26.759	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,223.427	- / 26.759	- / -	- / -	- / -	- / -

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GZ2300 / FS3 on A3 BFIST / M7 BFIST SA (Increase Performance)			- / -	- / -	- / -	- / -	- / -	- / 1,250.186
P-40	Total Gross/Weapon System Cost			- / -	- / 1,250.186				

*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:
There is no FY 2017 funding.

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-3a, Individual Modification: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GZ2300 / FIST Vehicle (Mod)				Modification Number / Title: GZ2300 / FS3 on A3 BFIST / M7 BFIST SA				

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>)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
<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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Removing the Tube-launched Optically-tracked Wire-guided (TOW) box and integrating the FS3 into the digital architecture of the A3 BFIST and M7 BFIST SA. With the addition of the FS3, the FIST mission will be able to detect, recognize, identify, and designate targets at a greater range and greater distance, which increases crew survivability, and meet the ORD requirements. Installation costs are included in the contractor costs.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.045	-	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.714	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	26.759	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2300 / FIST Vehicle (Mod)	Modification Number / Title: GZ2300 / FS3 on A3 BFIST / M7 BFIST SA

Models of Systems Affected: A3 BFIST / M7 BFIST SA	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											

Procurement

Modification Item 1 of 2: PRIOR YEAR CLOSED - BFIST												
A Kits												
Recurring												
Prior Year Closed - A3 BFIST	189 / 957.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	189 / 957.258
<i>Subtotal: Recurring</i>	- / 957.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 957.258
<i>Subtotal: PRIOR YEAR CLOSED - BFIST</i>	189 / 957.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	189 / 957.258

Modification Item 2 of 2: FS3 on BFIST

A Kits												
Recurring												
BFIST A3 FS3 A-Kits	200 / 35.873	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 35.873
BFIST A3 FS3 Sensors	215 / 62.302	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	215 / 62.302
BFIST A3 GFE/GFM	0 / 9.972	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.972
BFIST M7SA FS3 A Kits	51 / 9.712	28 / 5.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 15.032
BFIST M7SA FS3 Sensors	41 / 7.749	38 / 1.406	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 9.155
BFIST M7SA GFE/GFM	0 / 1.975	- / 0.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.437
LL FS3 Sensor Mod Kits	0 / 2.355	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.355
Engineering Production (A3 & M7SA)	0 / 92.606	- / 11.252	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 103.858
Government Support (A3 & M7SA)	0 / 20.567	- / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.067
Fielding (A3 & M7SA)	0 / 10.926	- / 2.310	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.236
Test & Evaluation (A3 & M7SA)	0 / 12.132	- / 2.509	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.641
<i>Subtotal: Recurring</i>	- / 266.169	- / 26.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 292.928
<i>Subtotal: FS3 on BFIST</i>	507 / 266.169	66 / 26.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	573 / 292.928
<i>Subtotal: Procurement, All Modification Items</i>	696 / 1,223.427	66 / 26.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	762 / 1,250.186

Installation

Modification Item 1 of 2: PRIOR YEAR CLOSED - BFIST	189 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	189 / -
Modification Item 2 of 2: FS3 on BFIST	214 / 0.000	65 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	279 / -
<i>Subtotal: Installation</i>	403 / 0.000	65 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	468 / -

Total

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2300 / FIST Vehicle (Mod)	Modification Number / Title: GZ2300 / FS3 on A3 BFIST / M7 BFIST SA

Models of Systems Affected: A3 BFIST / M7 BFIST SA	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											
Total Cost (Procurement + Support + Installation)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2300 / FIST Vehicle (Mod)	Modification Number / Title: GZ2300 / FS3 on A3 BFIST / M7 BFIST SA

Modification Item 1 of 2: PRIOR YEAR CLOSED - BFIST

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: YORK, PA
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: X

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	189 / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	189 / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	189 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	189 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	189
Out	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	189

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2300 / FIST Vehicle (Mod)	Modification Number / Title: GZ2300 / FS3 on A3 BFIST / M7 BFIST SA

Modification Item 2 of 2: FS3 on BFIST

Manufacturer Information

Manufacturer Name: BAE				Manufacturer Location: YORK, PA			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2015						
Delivery Dates	Sep 2015						

Installation Information

Method of Implementation: Contractor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	214 / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	214 / 0.000
FY 2015	0 / 0.000	65 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	214 / 0.000	65 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	279 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	214	-	-	12	12	13	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279
Out	214	-	-	-	12	12	13	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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>)	4,771.909	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780	5,030.314	12,326.594
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,771.909	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780	5,030.314	12,326.594
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,771.909	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780	5,030.314	12,326.594

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Bradley Program (MOD) procures upgrades to Bradley Fighting Vehicles. The Bradley Program (MOD) procures hardware for mods from the Engineering Change Proposal (ECP) program approved by the Army Acquisition Executive (AAE) in July 2011. There are two ECPs in this program. ECP1 improves vehicle suspension with extended life track. ECP2 improves the power train and electrical system to enable the A3 fleet to host inbound technologies from Army Program of Records including Handheld Manpack Small Radios (HMS) and Joint Battle Command-Platform (JBC-P). Additionally, the Bradley Program (MOD) procures M2 conversions, safety upgrades to the transmission, high priority improvements, and obsolescence mitigation to the Bradley Advanced Training System (BATS).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	136.006	210.042	276.433	-	276.433	496.556	450.020	395.534	495.780
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	-	-	-	-	32.000	32.000	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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-3a	GZ2400 / Bradley Program MOD (Increase Performance)			- / 4,771.909	- / 136.006	- / 210.042	- / 276.433	- / -	- / 276.433
P-40	Total Gross/Weapon System Cost			- / 4,771.909	- / 136.006	- / 210.042	- / 276.433	- / -	- / 276.433

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GZ2400 / Bradley Program MOD (Increase Performance)			- / 496.556	- / 482.020	- / 427.534	- / 495.780	- / 5,030.314	- / 12,326.594
P-40	Total Gross/Weapon System Cost			- / 496.556	- / 482.020	- / 427.534	- / 495.780	- / 5,030.314	- / 12,326.594

*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 \$276.433 million supports procurement of multiple modifications to the Bradley Family of Vehicles including the following: procurement and installation of upgrade ECP1 kits; procurement and installation of upgrade ECP2 kits; Training Aids, Devices, Simulators and Simulations (TADDS), and program/engineering support. Current projections indicate that the Bradley Infantry Fighting Vehicle will likely remain in the ABCT formation until the 2050s.

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-3a, Individual Modification: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)				Modification Number / Title: GZ2400 / Bradley Program MOD				

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>)	4,771.909	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780	5,030.314	12,326.594
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,771.909	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780	5,030.314	12,326.594
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,771.909	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780	5,030.314	12,326.594

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Bradley Program (MOD) procures hardware for mods from the Engineering Change Proposal (ECP) program approved by the Army Acquisition Executive (AAE) in July 2011. There are two ECPs in this program. ECP1 improves vehicle suspension with extended life track. ECP2 improves the power train and electrical system to enable the A3 fleet to host inbound technologies from Army Program of Records (i.e. HMS, JBC-P). Funds training device obsolescence mitigation to the Bradley Advanced Training System (BATS); procures transmission safety upgrades; high priority improvements to ensure safe and effective operation of the vehicle at full combat weight.

MOD 2 (BFVS High Priority Improvements) - The Bradley Fighting Vehicle Systems (BFVS) represented the primary mechanized Infantry, Cavalry, and Engineer forces in the Armored Brigade Combat Teams which remain critical in both combat military operations as well as military operations. In order to retain a strategic combat overmatch against consistently improving forces/technologies several modifications were needed to ensure this capability. Modifications to the BFVS include modifications to ensure BFVS remain effective and suitable such as in target acquisition, towing and recovery operations, and upgrading the Interactive Electronic Technical Manuals (IETM).

MOD 3 (Training Equipment Devices) - Provide funding for personnel sustainment support and delivery of BFV Training Aids, Devices, Simulators and Simulations (TADSS). Funding supports ongoing effort to replacement of Bradley Advanced Training System (BATS) with Conduct of Fire Trainer-Situational Awareness (COFT-SA) to mitigate obsolescence of the Bradley advanced training system, Table Top Trainers and ECP2 Maintenance Trainers in support of the Bradley Vehicle systems. Also, system training devices are required to remain current with upgrade fleet configuration/capabilities. TADSS include Maintenance Trainers, Gunnery Trainer Tech Refresh, Desktop Trainer Lesson modifications, and Bradley Common Software Library modifications. Contractor dates will vary by item and cannot be predicted. Includes nonrecurring engineering for hardware and software changes, procurement cost of hardware associated with modifications to existing training devices and field installation at the unit.

MOD 5 (Program/Engineering Support) - Program/Engineering Support includes both Government & contractor program management support to oversee program planning & procurement of ECP1 & 2 hardware, conversion of Bradley configurations and industrial base mitigation.

MOD 6 (ECP1 Modification/Field Upgrades) - Provides funding for the components and applications related to fielding modifications to the entire Bradley Fighting Vehicle fleet. ECP1 field modifications include track and suspension system upgrades that help to alleviate operational deficiencies with regards to mobility, crew protection and system survivability. Costs associated with kit installations are included in the funding for the prime hardware contracts.

MOD 7 (ECP 2 Modification) - Provides funding for the components and applications related to modifications to the entire Bradley Fighting Vehicle fleet. ECP2 improves the power train and electrical system to enable the A3 fleet to host inbound technologies from Army Program of Records (i.e. HMS, JBC-P). Costs associated with kit installations are included in the funding for the prime hardware contracts.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Total Obligation Authority	136.006	210.042	276.433	-	276.433	496.556	450.020	395.534	495.780
ANG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	-	-	-	-	32.000	32.000	-
Total:	-	-	-	-	-	-	-	-	-
Secondary Distribution	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)					Modification Number / Title: GZ2400 / Bradley Program MOD			
Models of Systems Affected: M2 & M3 Bradley Vehicle Variants				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
Procurement													
Modification Item 1 of 9: Bradley Reactive Armor													
A Kits													
Recurring													
Kit Quantity	2,676 / 765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,676 / 765.100	
Subtotal: Recurring	- / 765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 765.100	
Subtotal: Bradley Reactive Armor	2,676 / 765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,676 / 765.100	
Modification Item 2 of 9: BFVS High Priority Improvements													
A Kits													
Recurring													
CMED Driver Vision Upgrade	617 / 85.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	617 / 85.500	
Reset Mods	756 / 10.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	756 / 10.500	
INU/Talon	271 / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	271 / 5.000	
Heat Abatement/Cargo Hatch	2,764 / 2.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,764 / 2.870	
High Priority Mods	0 / 95.408	- / -	- / 144.860	- / 20.968	- / -	- / 20.968	- / 53.919	- / 31.857	- / 16.299	- / 19.529	- / -	- / 282.840	
Urban Survivability Mods	5,276 / 2,099.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,276 / 2,099.004	
Subtotal: Recurring	- / 2,298.282	- / -	- / 144.860	- / 20.968	- / -	- / 20.968	- / 53.919	- / 31.857	- / 16.299	- / 19.529	- / -	- / 2,485.714	
Subtotal: BFVS High Priority Improvements	9,684 / 2,298.282	- / -	- / 144.860	- / 20.968	- / -	- / 20.968	- / 53.919	- / 31.857	- / 16.299	- / 19.529	- / -	9,684 / 2,485.714	
Modification Item 3 of 9: Training Equipment Devices													
A Kits													
Recurring													
Training Equipment	0 / 64.811	- / -	- / 149.447	- / 14.161	- / -	- / 14.161	- / 14.240	- / 7.577	- / 7.728	- / 5.631	- / -	- / 143.595	
Subtotal: Recurring	- / 64.811	- / -	- / 149.447	- / 14.161	- / -	- / 14.161	- / 14.240	- / 7.577	- / 7.728	- / 5.631	- / -	- / 143.595	
Subtotal: Training Equipment Devices	0 / 64.811	- / -	- / 149.447	- / 14.161	- / -	- / 14.161	- / 14.240	- / 7.577	- / 7.728	- / 5.631	- / -	- / 143.595	
Modification Item 4 of 9: ODS Situational Awareness													
A Kits													
Recurring													
ODS Situational Awareness	770 / 1,199.553	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / 1,199.553	
IBAS Refresh	0 / 8.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.850	
ODS-SA VEHICLE VERSION IDENTIFICATION	0 / 12.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.500	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)					Modification Number / Title: GZ2400 / Bradley Program MOD				
Models of Systems Affected: M2 & M3 Bradley Vehicle Variants				Modification Type: Increase Performance					Related RDT&E PEs:					
Financial Plan	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		
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>					
<i>Subtotal: Recurring</i>	- / 1,220.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,220.903		
<i>Subtotal: ODS Situational Awareness</i>	770 / 1,220.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / 1,220.903		
Modification Item 5 of 9: Program/Engineering Support														
A Kits														
Recurring														
Government PM support	0 / 87.175	- / 21.470	- / 21.417	- / 24.798	- / -	- / 24.798	- / 24.946	- / 25.445	- / 25.954	- / 26.874	- / 324.569	- / 582.648		
Contractor PM Support	0 / 81.863	- / 9.141	- / 17.527	- / 37.060	- / -	- / 37.060	- / 41.416	- / 42.245	- / 43.090	- / 44.991	- / 569.536	- / 886.869		
<i>Subtotal: Recurring</i>	- / 169.038	- / 30.611	- / 38.944	- / 61.858	- / -	- / 61.858	- / 66.362	- / 67.690	- / 69.044	- / 71.865	- / 894.105	- / 1,469.517		
<i>Subtotal: Program/Engineering Support</i>	0 / 169.038	- / 30.611	- / 38.944	- / 61.858	- / -	- / 61.858	- / 66.362	- / 67.690	- / 69.044	- / 71.865	- / 894.105	- / 1,469.517		
Modification Item 6 of 9: ECP 1 Modification/Field Upgrades														
A Kits														
Recurring														
ECP 1 Modification	504 / 68.563	336 / 48.455	240 / 34.792	276 / 42.812	- / -	276 / 42.812	390 / 61.387	414 / 65.010	276 / 45.872	138 / 24.694	- / -	2,574 / 391.585		
Field Conversion M2 Common Stowage	0 / 51.000	- / -	- / 11.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 52.070		
Underbelly	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	304 / 45.655	304 / 45.967	608 / 91.622		
<i>Subtotal: Recurring</i>	- / 119.563	- / 48.455	- / 35.862	- / 42.812	- / -	- / 42.812	- / 61.387	- / 65.010	- / 45.872	- / 70.349	- / 45.967	- / 535.277		
<i>Subtotal: ECP 1 Modification/Field Upgrades</i>	504 / 119.563	336 / 48.455	240 / 35.862	276 / 42.812	- / -	276 / 42.812	390 / 61.387	414 / 65.010	276 / 45.872	442 / 70.349	304 / 45.967	3,182 / 535.277		
Modification Item 7 of 9: ECP 2 Modification														
A Kits														
Recurring														
ECP 2 Modification	- / -	- / -	- / -	61 / 146.634	- / -	61 / 146.634	150 / 310.648	150 / 309.886	128 / 288.591	145 / 328.406	1,940 / 4,090.242	2,574 / 5,474.407		
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 146.634	- / -	- / 146.634	- / 310.648	- / 309.886	- / 288.591	- / 328.406	- / 4,090.242	- / 5,474.407		
<i>Subtotal: ECP 2 Modification</i>	- / -	- / -	- / -	61 / 146.634	- / -	61 / 146.634	150 / 310.648	150 / 309.886	128 / 288.591	145 / 328.406	1,940 / 4,090.242	2,574 / 5,474.407		
Modification Item 8 of 9: Conversion to M2														
A Kits														
Recurring														
Conversion M3-M2	139 / 76.786	38 / 28.500	18 / 13.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	195 / 118.791		
Fielding	- / -	- / 13.454	- / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.454		
<i>Subtotal: Recurring</i>	- / 76.786	- / 41.954	- / 18.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 137.245		

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)						Modification Number / Title: GZ2400 / Bradley Program MOD			
Models of Systems Affected: M2 & M3 Bradley Vehicle Variants				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
<i>Subtotal: Conversion to M2</i>	139 / 76.786	38 / 41.954	18 / 18.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	195 / 137.245	
Modification Item 9 of 9: Braking Safety/Transmission Industrial Base													
A Kits													
Recurring													
Transmission	186 / 57.426	54 / 14.986	80 / 22.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	320 / 94.836	
<i>Subtotal: Recurring</i>	- / 57.426	- / 14.986	- / 22.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 94.836	
<i>Subtotal: Braking Safety/Transmission Industrial Base</i>	186 / 57.426	54 / 14.986	80 / 22.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	320 / 94.836	
<i>Subtotal: Procurement, All Modification Items</i>	13,959 / 4,771.909	428 / 136.006	338 / 210.042	337 / 276.433	- / -	337 / 276.433	540 / 496.556	564 / 482.020	404 / 427.534	587 / 495.780	2,244 / 5,030.314	19,401 / 12,326.594	
Installation													
Modification Item 1 of 9: Bradley Reactive Armor	2,676 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,676 / -	
Modification Item 2 of 9: BFVS High Priority Improvements	9,684 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9,684 / -	
Modification Item 4 of 9: ODS Situational Awareness	770 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / -	
Modification Item 6 of 9: ECP 1 Modification/Field Upgrades	0 / 0.000	180 / -	420 / -	360 / -	- / -	360 / -	258 / -	332 / -	402 / -	346 / -	884 / -	3,182 / -	
Modification Item 7 of 9: ECP 2 Modification	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	43 / -	131 / -	149 / -	2,251 / -	2,574 / -	
Modification Item 8 of 9: Conversion to M2	0 / 0.000	76 / -	61 / -	43 / -	- / -	43 / -	15 / -	- / -	- / -	- / -	- / -	195 / -	
<i>Subtotal: Installation</i>	13,130 / 0.000	256 / -	481 / -	403 / -	- / -	403 / -	273 / -	375 / -	533 / -	495 / -	3,135 / -	19,081 / -	
Total													
Total Cost (Procurement + Support + Installation)	4,771.909	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780	5,030.314	12,326.594	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

Modification Item 1 of 9: Bradley Reactive Armor

Manufacturer Information

Manufacturer Name: GDATP	Manufacturer Location: Burlington, VT
Administrative Leadtime (in Months):	Production Leadtime (in Months):

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	2,676 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	2,676 / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2,676 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,676 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4																														
In	2,676	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,676
Out	2,676	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,676

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

Modification Item 2 of 9: BFVS High Priority Improvements

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: YORK, PA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates		Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022

Installation Information

Method of Implementation: Contractor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	9,684 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	9,684 / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	9,684 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9,684 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	9,684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,684
Out	9,684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,684

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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Modification Item 3 of 9: Training Equipment Devices

Manufacturer Information

Manufacturer Name: Oasis	Manufacturer Location: AUBURN HILLS, MI
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Administrative Leadtime (<i>in Months</i>): 5	Production Leadtime (<i>in Months</i>): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Feb 2016	Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021
Delivery Dates	Feb 2017	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021	Feb 2022

Installation Information

Method of Implementation (Organic): Contractor	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

Modification Item 4 of 9: ODS Situational Awareness

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: YORK, PA
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	770 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	770 / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	770 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	770
Out	770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	770

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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Modification Item 5 of 9: Program/Engineering Support

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: WARREN, MI
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 1
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021

Installation Information

Method of Implementation (Organic): x	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

Modification Item 6 of 9: ECP 1 Modification/Field Upgrades

Manufacturer Information

Manufacturer Name: Loc Performance Products Inc./Other	Manufacturer Location: Various
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021
Delivery Dates	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022

Installation Information

Method of Implementation: Contractor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	180 / 0.000	324 / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	504 / 0.000
FY 2015	0 / 0.000	- / -	96 / -	240 / -	- / -	240 / -	- / -	- / -	- / -	- / -	- / -	336 / -
FY 2016	0 / 0.000	- / -	- / -	120 / -	- / -	120 / -	120 / -	- / -	- / -	- / -	- / -	240 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	138 / -	138 / -	- / -	- / -	- / -	276 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	194 / -	196 / -	- / -	- / -	390 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	206 / -	208 / -	- / -	414 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / -	138 / -	276 / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	442 / -	442 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	304 / -	304 / -
Total	0 / 0.000	180 / -	420 / -	360 / -	- / -	360 / -	258 / -	332 / -	402 / -	346 / -	884 / -	3,182 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	504	-	-	336	-	-	-	240	-	-	-	276	-	-	-	390	-	-	-	414	-	-	-	276	-	-	-	442	-	304	3,182
Out	-	-	-	90	90	90	90	120	120	120	120	60	60	60	60	69	69	69	69	97	97	98	98	103	103	104	104	69	69	884	3,182

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

Modification Item 7 of 9: ECP 2 Modification

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: York, PA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 22

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Jan 2019	Oct 2019	Oct 2020	Oct 2021	Oct 2022

Installation Information

Method of Implementation: Contractor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	43 / -	18 / -	- / -	- / -	61 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	113 / -	37 / -	- / -	150 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / -	38 / -	150 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	128 / -	128 / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	145 / -	145 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,940 / -	1,940 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	43 / -	131 / -	149 / -	2,251 / -	2,574 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	61	-	-	-	150	-	-	-	150	-	-	-	128	-	-	-	145	-	-	1,940	2,574
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	15	15	18	38	37	37	38	38	37	37	2,251	2,574

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

Modification Item 8 of 9: Conversion to M2

Manufacturer Information

Manufacturer Name: BAE				Manufacturer Location: YORK, PA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2016	Mar 2016					
Delivery Dates	Mar 2017	Mar 2017					

Installation Information

Method of Implementation: Contractor

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	76 / 0.000	61 / 0.000	2 / 0.000	- / -	2 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	139 / 0.000
FY 2015	0 / 0.000	- / -	- / -	38 / -	- / -	38 / -	- / -	- / -	- / -	- / -	- / -	38 / -
FY 2016	0 / 0.000	- / -	- / -	3 / -	- / -	3 / -	15 / -	- / -	- / -	- / -	- / -	18 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	76 / -	61 / -	43 / -	- / -	43 / -	15 / -	- / -	- / -	- / -	- / -	195 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	139	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	15	31	30	32	5	13	11	7	10	13	13	12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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Modification Item 9 of 9: Braking Safety/Transmission Industrial Base

Manufacturer Information

Manufacturer Name: L3COM	Manufacturer Location: MUSKEGON, MI
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Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2015	Jan 2016					
Delivery Dates	May 2016	Jan 2017					

Installation Information

Method of Implementation (Organic): Contractor	Installation Quantity: 0
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UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604854A **Other Related Program Elements:** 0604854A

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>)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Paladin program consists of the M109A6 Paladin Self-Propelled Howitzer (SPH) and the M992A2 Field Artillery Ammunition Supply Vehicle (FAASV). The funding profile supports all aspects of program management necessary to support the field fleet of 558 SPHs and 521 FAASVs in 19 Active Duty Army and National Guard Battalions organic to Armored Brigade Combat Team (ABCT); 8 Battalions organic to Army Fires Brigades; two Battalions (plus floats) in Army Prepositioned Stocks; two Institutional Training Sites, two Combat Training Center, and other facility vehicles for System Technical Support engineering developmental work and prove out.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	27.625	34.727	36.745	-	36.745	37.460	33.773	-	-
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	17.786	23.152	26.393	-	26.393	26.770	24.276	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604854A **Other Related Program Elements:** 0604854A

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-3a	GA0400 / Paladin/FAASV Modification Program (Increase Performance)			- / 1,911.335	- / 45.411	- / 57.879	- / 63.138	- / -	- / 63.138
P-40	Total Gross/Weapon System Cost			- / 1,911.335	- / 45.411	- / 57.879	- / 63.138	- / -	- / 63.138

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GA0400 / Paladin/FAASV Modification Program (Increase Performance)			- / 64.230	- / 58.049	- / -	- / -	- / 104.059	- / 2,304.101
P-40	Total Gross/Weapon System Cost			- / 64.230	- / 58.049	- / -	- / -	- / 104.059	- / 2,304.101

*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 funding in the amount of \$63.138 million supports Paladin Systems Technical Support (STS), Program Office requirements, and Paladin Fire Control System (PFCS). Of the \$63.138 million, \$53.148 million provides for the procurement and installation of the PFCS Kits into the M109A6 SPH. Program Management is for the oversight of Other Governmental Agencies (OGAs) that provide material support to the system and the fielded units to ensure configuration management; provides the analysis and root cause of safety and non-safety related field failures; provides management of the Army's Paladin Combat Vehicle Evaluation (CVE) program; provides quality process management of production for Paladin Depot Overhaul operations; provides planning and execution for obsolescence of parts, sub-systems and systems; develop and coordinate shrinking supply base mitigation strategies with item managers. The program office works to lower Operation and Sustainment costs and improve unit readiness by analyzing data and determining solutions to solve the field's problem sets. Manages the Systems Technical Support/Sustainment Systems Technical Support (STS/SSTS) contract that provides direct support to the program and the field. Contractor provides the direct engineering support required to integrate modification kits; provides the logistical support to provision, source, and support the field with the material solutions/changes. Contractor also updates/corrects all system technical data, provisioning data, technical manuals, and Interactive-Electronic Technical Manuals (IETMs). Contractor provides emergency field support to the Government as required for essential for mission accomplishment.

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-3a, Individual Modification: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)				Modification Number / Title: GA0400 / Paladin/FAASV Modification Program				

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>)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
<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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Funding supports modifications to the Paladin/FAASV Stowage Improvements, Training Aids, Devices, Simulators and Simulations - Replacement (TADSS-R) kits/upgrades, Paladin Fire Control System (PFCS) kits and its installation, MFoCS (Mounted Family of Computer Systems), Paladin Blue Force Tracker 2/KGV-72 kits, System Technical Support (STS), Breech Mod (MACS), New Gun Tubes and Lightweight Bore Evacuators, CREW II A-Kit Hardware and Fielding, and Program Office Requirements. Costs associated with kit installations are included in the funding for the prime hardware contracts.

Paladin Program Office [MOD 1]: Government System Engineering and Program Management support for the Paladin/FAASV program. Provides oversight of Other Governmental Agencies (OGAs) that provide material support to the system and the fielded units to ensure configuration management; provides the analysis and root cause of safety and non-safety related field failures; provides management of the Army's Paladin Combat Vehicle Evaluation (CVE) program; provides quality process management of production for Paladin Depot Overhaul operations; provides planning and execution for obsolescence of parts, sub-systems and systems; develop and coordinate shrinking supply base mitigation strategies with item managers; provides management of Post Production Software Support (PPSS). Manages the Systems Technical Support/Sustainment Systems Technical Support (STS/SSTS) contract that provides the direct support to the program and the field.

Paladin Fire Control System [MOD 2]: PFCS combines the Paladin Digital Fire Control System-Replacement (PDFCS-R) and Dynamic Reference Unit Hybrid-Replacement (DRUH-R) into one modification kit. PFCS reflects a cost reduction and streamlining effort to field the PDFCS-R and DRUH-R as a single modification to the vehicle. Costs associated with kit installations are included in the funding for the prime hardware contracts.

Chrome Tubes [MOD 3]: Completes the M109A6 Fleet requirements for M284 Cannon Tube Replacement. Removes the remaining temporary repaired M284 Cannon Tubes from the fielded M109A6 Fleet as a result of the December 2014 safety of use message.

Lightweight Bore Evacuator [MOD 4]: Provides decreased weight to aid in maintainability and improve reliability from previous bore evacuator models.

Paladin System Technical Support – Contr [MOD 5]: Funding supports contractor engineering efforts required to design and produce material solutions/changes to the fielded systems; provides the logistical support to provision, source, and supply the field with the material solutions/changes. Contractor also updates/corrects all system technical data, provisioning data, technical manuals, and Interactive-Electronic Technical Manuals (IETMs). Contractor provides emergency field support to the Government as required essential for mission accomplishment.

Breech Mod (MACS) [MOD 6]: To address problems with premature fatigue cracking or failure of breech mechanism components on the 155mm M284 Cannon when firing M232A1 Zone 5 propelling charges and to address legacy breech reliability issues associated with parts on the established 750 round replacement list.

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Paladin Stowage Improvements [MOD 7]: Funding supports safety related and other essential equipment stowage improvements to the M109A6 Paladin and M992A2 FAASV. The M109A6 stowage improvements include: M4 Rifle Brackets for the Drive and Crew Compartment, improved horizontal ammo stowage, Precision Guided Kit (PGK) stowage mod, the Artillery Projectile Extractor and PGK Fuze Wrench, Engine Grille Torsion Bar, and Rear Door Latch. The M992A2 stowage improvements includes: M4 Rifle Brackets, PGK stowage mod, Engine Grille Torsion Bar and Improved Rear Door Latch.

MFoCs (Mounted Family of Computer Systems) Paladin BFT-2/KGV-72 [MOD 8]: This procurement funding is to procure, install, and train units for a Blue Force Tracker 2, MFoCs and the required KGV-72 encryption device on to the FAASV.

Paladin TADSS [MOD 9]: Training Aids, Devices, Simulators and Simulations (TADSS) supports the upgrade of Fire Support Combined Arms Tactical Trainers (FSCATT).

Paladin Fire Support Combined Arms Tactical Trainer (FSCATT) Phase III Upgrade re-establishes the closed-loop training capability for Paladin crews to train in conjunction with Forward Observer and Fire Direction Center personnel. This upgrade will integrate the Government-owned software SE Core Gateway to communicate with the Call For Fire Trainer (CFFT) using the Virtual Distributed Interactive Simulation (V-DIS) message protocol. The upgrade will incorporate the latest Paladin tactical software and Advanced Field Artillery Tactical Data System (AFATDS), which will require migration of all software to run on a new operating system.

CREW II A-Kit HW and Fielding [MOD 10]: To complete CREW DUKE v2 A-Kits fielding across the remainder of the M109 Family of Vehicles (FOV) fleet.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.625	34.727	36.745	-	36.745	37.460	33.773	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.786	23.152	26.393	-	26.393	26.770	24.276	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Models of Systems Affected: M109 Howitzer and M992 FAASV Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											
Procurement												
Modification Item 1 of 12: Paladin Program Office												
A Kits												
Recurring												
PM Support	0 / 3.571	- / 1.191	- / 1.211	- / 2.265	- / -	- / 2.265	- / 2.311	- / 2.357	- / -	- / -	- / 17.871	- / 30.777
Subtotal: Recurring	- / 3.571	- / 1.191	- / 1.211	- / 2.265	- / -	- / 2.265	- / 2.311	- / 2.357	- / -	- / -	- / 17.871	- / 30.777
Subtotal: Paladin Program Office	0 / 3.571	- / 1.191	- / 1.211	- / 2.265	- / -	- / 2.265	- / 2.311	- / 2.357	- / -	- / -	- / 17.871	- / 30.777
Modification Item 2 of 12: Paladin Fire Control System												
A Kits												
Recurring												
Hardware	98 / 46.011	106 / 40.240	59 / 27.900	129 / 53.148	- / -	129 / 53.148	85 / 36.458	50 / 24.237	- / -	- / -	- / -	527 / 227.994
Subtotal: Recurring	- / 46.011	- / 40.240	- / 27.900	- / 53.148	- / -	- / 53.148	- / 36.458	- / 24.237	- / -	- / -	- / -	- / 227.994
Subtotal: Paladin Fire Control System	98 / 46.011	106 / 40.240	59 / 27.900	129 / 53.148	- / -	129 / 53.148	85 / 36.458	50 / 24.237	- / -	- / -	- / -	527 / 227.994
Modification Item 3 of 12: Chrome Tubes												
A Kits												
Recurring												
Hardware	- / -	- / -	209 / 19.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	209 / 19.470
Subtotal: Recurring	- / -	- / -	- / 19.470	- / -	- / 19.470							
Subtotal: Chrome Tubes	- / -	- / -	209 / 19.470	- / -	209 / 19.470							
Modification Item 4 of 12: Lightweight Bore Evacuator												
A Kits												
Recurring												
Hardware	- / -	- / -	240 / 5.718	75 / 1.822	- / -	75 / 1.822	- / -	- / -	- / -	- / -	- / -	315 / 7.540
Subtotal: Recurring	- / -	- / -	- / 5.718	- / 1.822	- / -	- / 1.822	- / -	- / 7.540				
Subtotal: Lightweight Bore Evacuator	- / -	- / -	240 / 5.718	75 / 1.822	- / -	75 / 1.822	- / -	315 / 7.540				
Modification Item 5 of 12: Paladin System Technical Support - Contr												
A Kits												
Recurring												
STS	0 / 7.300	- / 3.980	- / 3.580	- / 5.903	- / -	- / 5.903	- / 6.021	- / 6.141	- / -	- / -	- / 42.104	- / 75.029
Subtotal: Recurring	- / 7.300	- / 3.980	- / 3.580	- / 5.903	- / -	- / 5.903	- / 6.021	- / 6.141	- / -	- / -	- / 42.104	- / 75.029

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Models of Systems Affected: M109 Howitzer and M992 FAASV Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											
<i>Subtotal: Paladin System Technical Support - Contr</i>	0 / 7.300	- / 3.980	- / 3.580	- / 5.903	- / -	- / 5.903	- / 6.021	- / 6.141	- / -	- / -	- / 42.104	- / 75.029
Modification Item 6 of 12: Breech Mod (MACS)												
A Kits												
Recurring												
Hardware	- / -	- / -	- / -	- / -	- / -	- / -	149 / 5.039	149 / 5.162	- / -	- / -	297 / 10.719	595 / 20.920
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.039	- / 5.162	- / -	- / -	- / 10.719	- / 20.920
<i>Subtotal: Breech Mod (MACS)</i>	- / -	- / -	- / -	- / -	- / -	- / -	149 / 5.039	149 / 5.162	- / -	- / -	297 / 10.719	595 / 20.920
Modification Item 7 of 12: Paladin Stowage Improvements												
A Kits												
Recurring												
Stowage Improvements	- / -	- / -	- / -	- / -	- / -	- / -	198 / 3.947	199 / 5.610	- / -	- / -	198 / 7.524	595 / 17.081
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.947	- / 5.610	- / -	- / -	- / 7.524	- / 17.081
<i>Subtotal: Paladin Stowage Improvements</i>	- / -	- / -	- / -	- / -	- / -	- / -	198 / 3.947	199 / 5.610	- / -	- / -	198 / 7.524	595 / 17.081
Modification Item 8 of 12: MFoCs/Paladin BFT-2/ KGV-72												
A Kits												
Recurring												
Hardware	- / -	- / -	- / -	- / -	- / -	- / -	149 / 7.563	149 / 9.487	- / -	- / -	297 / 21.263	595 / 38.313
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.563	- / 9.487	- / -	- / -	- / 21.263	- / 38.313
<i>Subtotal: MFoCs/Paladin BFT-2/KGV-72</i>	- / -	- / -	- / -	- / -	- / -	- / -	149 / 7.563	149 / 9.487	- / -	- / -	297 / 21.263	595 / 38.313
Modification Item 9 of 12: Paladin TADSS												
A Kits												
Recurring												
Training Equipment Software	0 / 4.002	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.281	- / -	- / -	- / -	- / 5.283
<i>Subtotal: Recurring</i>	- / 4.002	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.281	- / -	- / -	- / -	- / 5.283
<i>Subtotal: Paladin TADSS</i>	0 / 4.002	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.281	- / -	- / -	- / -	- / 5.283
Modification Item 10 of 12: CREW II A-Kit HW and Fielding												
A Kits												
Recurring												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Models of Systems Affected: M109 Howitzer and M992 FAASV Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											
Installation Kits	- / -	- / -	- / -	- / -	- / -	- / -	149 / 2.891	149 / 3.774	- / -	- / -	144 / 4.578	442 / 11.243
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.891	- / 3.774	- / -	- / -	- / 4.578	- / 11.243
<i>Subtotal: CREW II A-Kit HW and Fielding</i>	- / -	- / -	- / -	- / -	- / -	- / -	149 / 2.891	149 / 3.774	- / -	- / -	144 / 4.578	442 / 11.243
Modification Item 11 of 12: Prior Years Closed Mods												
A Kits												
Recurring												
Prior Closed Mods	0 / 1,816.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,816.451
<i>Subtotal: Recurring</i>	- / 1,816.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,816.451
<i>Subtotal: Prior Years Closed Mods</i>	0 / 1,816.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,816.451
Modification Item 12 of 12: ATR for Gun Tubes												
A Kits												
Recurring												
Hardware	0 / 34.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.000
<i>Subtotal: Recurring</i>	- / 34.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.000
<i>Subtotal: ATR for Gun Tubes</i>	0 / 34.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.000
<i>Subtotal: Procurement, All Modification Items</i>	98 / 1,911.335	106 / 45.411	508 / 57.879	204 / 63.138	- / -	204 / 63.138	730 / 64.230	696 / 58.049	- / -	- / -	936 / 104.059	3,278 / 2,304.101

Installation												
Modification Item 2 of 12: Paladin Fire Control System	0 / 0.000	15 / -	25 / -	164 / -	- / -	164 / -	59 / -	129 / -	85 / -	50 / -	- / -	527 / -
Modification Item 3 of 12: Chrome Tubes	0 / 0.000	- / -	- / -	209 / -	- / -	209 / -	- / -	- / -	- / -	- / -	- / -	209 / -
Modification Item 4 of 12: Lightweight Bore Evacuator	0 / 0.000	- / -	- / -	240 / -	- / -	240 / -	75 / -	- / -	- / -	- / -	- / -	315 / -
Modification Item 6 of 12: Breech Mod (MACS)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	149 / -	149 / -	- / -	297 / -	595 / -
Modification Item 7 of 12: Paladin Stowage Improvements	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	198 / -	199 / -	- / -	198 / -	595 / -
Modification Item 8 of 12: MFoCs/Paladin BFT-2/KGV-72	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	149 / -	149 / -	- / -	297 / -	595 / -
Modification Item 10 of 12: CREW II A-Kit HW and Fielding	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	37 / -	149 / -	112 / -	144 / -	442 / -
<i>Subtotal: Installation</i>	0 / 0.000	15 / -	25 / -	613 / -	- / -	613 / -	134 / -	662 / -	731 / -	162 / -	936 / -	3,278 / -

Total												
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Models of Systems Affected: M109 Howitzer and M992 FAASV Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	<i>Qty (Each) / Total Cost (\$ M)</i>											
Total Cost (Procurement + Support + Installation)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)			Modification Number / Title: GA0400 / Paladin/FAASV Modification Program	
Modification Item 1 of 12: Paladin Program Office							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Installation Information							
Method of Implementation (Organic): N/A					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 2 of 12: Paladin Fire Control System

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018		
Delivery Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020		

Installation Information

Method of Implementation: x

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	15 / 0.000	25 / 0.000	58 / 0.000	- / -	58 / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 0.000	98 / 0.000
FY 2015	0 / 0.000	- / -	- / -	106 / -	- / -	106 / -	- / -	- / -	- / -	- / -	- / -	106 / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	59 / -	- / -	- / -	- / -	- / -	59 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	129 / -	- / -	- / -	- / -	129 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	85 / -	- / -	- / -	85 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / -	- / -	50 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	15 / -	25 / -	164 / -	- / -	164 / -	59 / -	129 / -	85 / -	50 / -	- / -	527 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	5	5	5	6	-	-	19	46	46	46	26	15	15	15	14	32	33	32	32	21	22	21	21	12	13	13	12	-	527
Out	-	-	5	5	5	6	-	-	19	46	46	46	26	15	15	15	14	32	33	32	32	21	22	21	21	12	13	13	12	-	527

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 3 of 12: Chrome Tubes

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015					
Delivery Dates		Dec 2016					

Installation Information

Method of Implementation: .

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	209 / -	- / -	209 / -	- / -	- / -	- / -	- / -	- / -	209 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	209 / -	- / -	209 / -	- / -	- / -	- / -	- / -	- / -	209 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	52	52	53	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	52	52	53	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 4 of 12: Lightweight Bore Evacuator

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015	Dec 2016				
Delivery Dates		Dec 2016	Dec 2017				

Installation Information

Method of Implementation: .

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	240 / -	- / -	240 / -	- / -	- / -	- / -	- / -	- / -	240 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	75 / -	- / -	- / -	- / -	- / -	75 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	240 / -	- / -	240 / -	75 / -	- / -	- / -	- / -	- / -	315 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	-	-	-	-	-	-	-	-	-	60	60	60	60	18	19	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	315
Out	-	-	-	-	-	-	-	-	-	60	60	60	60	18	19	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	315

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 5 of 12: Paladin System Technical Support - Contr

Manufacturer Information

Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): N/A	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 6 of 12: Breech Mod (MACS)

Manufacturer Information

Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Dec 2017	Dec 2018		
Delivery Dates				Dec 2018	Dec 2019		

Installation Information

Method of Implementation: .

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	149 / -	- / -	- / -	- / -	149 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	149 / -	- / -	- / -	149 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	297 / -	297 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	149 / -	149 / -	- / -	297 / -	595 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	38	37	37	-	-	-	-	297	595
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	38	37	37	-	-	-	-	297	595

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 7 of 12: Paladin Stowage Improvements

Manufacturer Information

Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Dec 2017	Dec 2018		
Delivery Dates				Dec 2018	Dec 2019		

Installation Information

Method of Implementation: Field Retrofit

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	198 / -	- / -	- / -	- / -	198 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / -	- / -	- / -	199 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	198 / -	198 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	198 / -	199 / -	- / -	198 / -	595 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	50	49	50	49	50	50	50	-	-	-	-	198	595
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	50	49	50	49	50	50	50	-	-	-	-	198	595

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 8 of 12: MFoCs/Paladin BFT-2/KGV-72

Manufacturer Information

Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Dec 2017	Dec 2018		
Delivery Dates				Dec 2018	Dec 2019		

Installation Information

Method of Implementation: Field Retrofit

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	149 / -	- / -	- / -	- / -	149 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	149 / -	- / -	- / -	149 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	297 / -	297 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	149 / -	149 / -	- / -	297 / -	595 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	37	38	37	-	-	-	-	297	595
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	37	38	37	-	-	-	-	297	595

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 9 of 12: Paladin TADSS

Manufacturer Information

Manufacturer Name: X				Manufacturer Location: X			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): N/A	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 10 of 12: CREW II A-Kit HW and Fielding

Manufacturer Information

Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Dec 2017	Dec 2018		
Delivery Dates				Dec 2018	Dec 2019		

Installation Information

Method of Implementation: .

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	37 / -	112 / -	- / -	- / -	149 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / -	112 / -	- / -	149 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / -	144 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	37 / -	149 / -	112 / -	144 / -	442 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	37	38	37	-	-	-	-	144	442
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	37	38	37	-	-	-	-	144	442

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 11 of 12: Prior Years Closed Mods

Manufacturer Information

Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): x	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)	Modification Number / Title: GA0400 / Paladin/FAASV Modification Program

Modification Item 12 of 12: ATR for Gun Tubes

Manufacturer Information

Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): .	Installation Quantity: 0
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UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 GZ0410 / Paladin Integrated Management (PIM)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0210609A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** 466

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>)	17	18	30	36	12	48	60	60	60	60	215	568
Gross/Weapon System Cost (<i>\$ in Millions</i>)	354.110	247.400	273.850	469.305	125.184	594.489	662.413	656.599	653.494	663.204	2,811.927	6,917.486
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	354.110	247.400	273.850	469.305	125.184	594.489	662.413	656.599	653.494	663.204	2,811.927	6,917.486
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	354.110	247.400	273.850	469.305	125.184	594.489	662.413	656.599	653.494	663.204	2,811.927	6,917.486

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	20,830.000	13,744.444	9,128.333	13,036.250	10,432.000	12,385.188	11,040.217	10,943.317	10,891.567	11,053.400	13,078.730	12,178.673

Description:

Paladin Integrated Management (PIM) is an ACAT 1D Acquisition Program. The program is intended to replace the current fleet of M109 Family of Vehicles (FoV) consisting of the M109A6 Self Propelled Howitzer and the M992A2 Field Artillery Ammunition Supply Vehicle (FAASV). PIM is an Army Modernization Program that addresses a critical capability gap created by the Non-Line of Sight Cannon termination in June of 2009 as well as obsolescence and size/weight and power (SWaP) issues in the M109 FoV current Fleet. The PIM system integrates current Bradley Fighting Vehicle suspension and drive train items, Future Combat Systems (FCS) developed Electric Gun Drive systems and current fleet (M109A6) fire control systems into a new chassis that provides better force protection, survivability and mobility over the current fleet. PIM is a two vehicle system: The M109A7 Self Propelled Howitzer (SPH) and the M992A3 Carrier Ammunition Tracked (CAT.) The SPH has all characteristics listed above. The CAT utilizes all these same components and traits less those that relate directly to the cannon system. The PIM system replaces the current M109 FoV on a one for one basis, in the cannon fires battalions in the Armored Brigade Combat Team Formations and in the Echelons above Brigade (EAB). The overall intent is to increase Soldier force protection, vehicle survivability, provide an appropriate amount of SWaP capacity to add future capabilities, reduce life cycle costs and extend the life of the M109 FoV through FY 2050.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	18	30	34	-	34	32	32	32	32
Total Obligation Authority	247.400	273.850	406.767	-	406.767	397.448	393.960	392.096	416.323
ANG	-	-	2	12	14	28	28	28	28
Total Obligation Authority	-	-	62.538	125.184	187.722	264.965	262.639	261.398	246.881
Total: Secondary Distribution	18	30	36	12	48	60	60	60	60
Total Obligation Authority	247.400	273.850	469.305	125.184	594.489	662.413	656.599	653.494	663.204

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 GZ0410 / Paladin Integrated Management (PIM)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0210609A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** 466

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	GZ0410 / Paladin Integrated Management (PIM)	P-5a, P-21	A	17 / 354.110	18 / 247.400	30 / 273.850	36 / 469.305	12 / 125.184	48 / 594.489
P-40	Total Gross/Weapon System Cost			17 / 354.110	18 / 247.400	30 / 273.850	36 / 469.305	12 / 125.184	48 / 594.489

*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 \$469.305 million supports all aspects of the PIM Full Rate Production (FRP) program. Funding also supports Government Program Management required to provide oversight on contractor production operations that include: Quality Process Management, Program Management Reviews (weekly, monthly, and quarterly), Government Furnished Property and Material Management, and engineer activities resulting from waivers/deviations/problem resolution. Funds contractor operations that sustain production operations required to acquire materials, components and end-items; the manufacturing and assembly of sub-systems; the integration, test and check-out operations that results in the production of 36 SPHs and 36 CATs. The unit cost represents cost per set (1 SPH and 1 CAT).

The FY17 OCO includes \$125.184M to support COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. Funding supports all aspects of the PIM Production. Funding also supports Government Program Management required to provide oversight on contractor production operations that include: Quality Process Management, Program Management Reviews (weekly, monthly, and quarterly), Government Furnished Property and Material Management, and engineer activities resulting from waivers/deviations/problem resolution. Funds contractor operations that sustain production operations required to acquire materials, components and end-items; the manufacturing and assembly of sub-systems; the integration, test and check-out operations that results in the production of 12 SPHs and 12 CATs. The unit cost represents cost per set (1 SPH and 1 CAT).

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. Army Acquisition Objective (AAO): 580 sets The additional OCO funding was based on an Operational Needs Statement (ONS) issued by the US Army.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)	Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code: 466
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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>	17	18	30	36	12	48
Gross/Weapon System Cost <i>(\$ in Millions)</i>	354.110	247.400	273.850	469.305	125.184	594.489
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	354.110	247.400	273.850	469.305	125.184	594.489
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	354.110	247.400	273.850	469.305	125.184	594.489

(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 Thousands)</i>	20,830.000	13,744.444	9,128.333	13,036.250	10,432.000	12,385.188

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
SYS ENG/ PROG MGMT (CONTRACTOR)	-	-	6.585	-	-	6.118	-	-	2.909	-	-	10.303	-	-	3.434	-	-	13.737
SYSTEM TECHNICAL SUPPORT	-	-	35.823	-	-	34.804	-	-	0.530	-	-	55.947	-	-	5.642	-	-	61.589
SYS TEST & EVALUATION (CONTRACTOR)	-	-	10.224	-	-	11.082	-	-	1.480	-	-	1.363	-	-	0.454	-	-	1.817
SYS ENG/ PROG MGMT (GOVERNMENT)	-	-	35.218	-	-	18.046	-	-	6.694	-	-	23.996	-	-	2.419	-	-	26.415
SYS TEST & EVALUATION (GOVERNMENT)	-	-	1.410	-	-	1.398	-	-	0.205	-	-	2.882	-	-	0.291	-	-	3.173
TRANSPORTATION	-	-	0.263	-	-	-	-	-	0.140	-	-	0.587	-	-	0.059	-	-	0.646
Subtotal: Recurring Cost	-	-	89.523	-	-	71.448	-	-	11.958	-	-	95.078	-	-	12.299	-	-	107.377
Non Recurring Cost																		
PRODUCTION FACILITIZATION	-	-	28.131	-	-	-	-	-	3.343	-	-	14.538	-	-	6.332	-	-	20.870
Subtotal: Non Recurring Cost	-	-	28.131	-	-	-	-	-	3.343	-	-	14.538	-	-	6.332	-	-	20.870
Subtotal: Flyaway Cost	-	-	117.654	-	-	71.448	-	-	15.301	-	-	109.616	-	-	18.631	-	-	128.247
Hardware Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20						P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)						Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code: 466								

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
MANUFACTURING ⁽¹⁾	10,454.353	17	177.724	7,460.444	18	134.288	7,348.267	30	220.448	7,526.528	36	270.955	7,526.500	12	90.318	7,526.521	48	361.273
GOVERNMENT FURNISHED EQUIPMENT (GFE)	-	-	11.327	-	-	10.841	-	-	15.955	-	-	24.318	-	-	8.106	-	-	32.424
THEATRE PROVIDED EQUIPMENT	-	-	2.339	-	-	-	-	-	3.686	-	-	3.512	-	-	-	-	-	3.512
RECURRING PRODUCTION - OTHER	-	-	2.848	-	-	2.515	-	-	1.258	-	-	4.457	-	-	-	-	-	4.457
ENGINEERING CHANGE ORDERS	-	-	9.952	-	-	7.312	-	-	5.539	-	-	22.452	-	-	2.263	-	-	24.715
<i>Subtotal: Recurring Cost</i>	-	-	204.190	-	-	154.956	-	-	246.886	-	-	325.694	-	-	100.687	-	-	426.381
<i>Subtotal: Hardware Cost</i>	-	-	204.190	-	-	154.956	-	-	246.886	-	-	325.694	-	-	100.687	-	-	426.381
Support Cost																		
TRAINING	-	-	3.187	-	-	3.534	-	-	1.141	-	-	4.346	-	-	0.438	-	-	4.784
DATA	-	-	20.288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUPPORT EQUIPMENT	-	-	1.702	-	-	1.506	-	-	0.752	-	-	2.663	-	-	0.268	-	-	2.931
INITIAL SUPPORT EQUIP (ISE)	-	-	0.320	-	-	-	-	-	1.326	-	-	4.774	-	-	0.481	-	-	5.255
NEW EQUIP TRAINING (NET)	-	-	0.601	-	-	-	-	-	2.545	-	-	11.370	-	-	1.146	-	-	12.516
CONTRACTOR LOGISTICS SUPPORT (CLS)	-	-	-	-	-	-	-	-	0.197	-	-	0.348	-	-	0.035	-	-	0.383
INITIAL SPARES (REPARABLES & CONSUMABLES)	-	-	6.168	-	-	8.456	-	-	5.702	-	-	10.494	-	-	3.498	-	-	13.992
OTHERS	-	-	-	-	-	7.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>	-	-	32.266	-	-	20.996	-	-	11.663	-	-	33.995	-	-	5.866	-	-	39.861
Gross/Weapon System Cost	20,830.000	17	354.110	13,744.444	18	247.400	9,128.333	30	273.850	13,036.250	36	469.305	10,432.000	12	125.184	12,385.188	48	594.489

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	18	30	34	-	34
	Total Obligation Authority	247.400	273.850	406.767	-	406.767

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)	Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)

ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:** 466

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	-	-	2	12	14
	Total Obligation Authority	-	-	62.538	125.184	187.722
Total:	Quantity	18	30	36	12	48
Secondary Distribution	Total Obligation Authority	247.400	273.850	469.305	125.184	594.489

(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: 2033A / 01 / 20			P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)				Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)				

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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MANUFACTURING ^(†)		2015	BAE / York	SS / FPIF	TACOM, Warren, MI	Nov 2014	Mar 2016	18	7,460.444			
MANUFACTURING ^(†)		2016	BAE / York	SS / FPIF	TACOM, Warren, MI	Oct 2015	Mar 2017	30	7,348.267			
MANUFACTURING ^(†)		2017	BAE / York	SS / FPIF	TACOM, Warren, MI	Mar 2017	Jul 2018	48	7,526.521			

^(†) 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: 2033A / 01 / 20										P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)										Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)									

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									
MANUFACTURING																																							
Prior Years Deliveries: 17																																							
1	2015	ARMY (I)	18	-	18		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	1	2	1	2	7
1	2016	ARMY (II)	30	-	30																																	30	
1	2017	ARMY (III)	48	-	48																																	48	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 01 / 20										P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)										Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)									

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						
MANUFACTURING																																					
Prior Years Deliveries: 17																																					
	1	2015	ARMY (I)	18	11	7	2	1	2	1	1																										-
	1	2016	ARMY (II)	30	-	30	-	-	-	-	-	2	3	2	3	2	3	2	2	3	2	3	3														-
	1	2017	ARMY (III)	48	-	48						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	36
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 01 / 20		P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)
		Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)

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 - York	2	5	10	-	2	16	18	-	6	16	22

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

- Service/Agency Suffixes:**
- (I) BASE
 - (II) BASE
 - (III) BASE

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

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>)	734	36	47	22	-	22	17	-	-	-	-	856
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,068.120	122.451	187.129	91.963	-	91.963	77.402	-	-	-	-	2,547.065
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,068.120	122.451	187.129	91.963	-	91.963	77.402	-	-	-	-	2,547.065
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,068.120	122.451	187.129	91.963	-	91.963	77.402	-	-	-	-	2,547.065

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	2,817.602	3,401.417	3,981.468	4,180.136	-	4,180.136	4,553.059	-	-	-	-	2,975.543

Description:

The M88A2 Heavy Equipment Recovery Combat Utility Lift and Evacuation System (HERCULES) is a 70 ton armored, full tracked, diesel powered recovery vehicle based on the M88A1 chassis. The hull is armored for protection against small arms fire, artillery fragments, and anti-personnel mines. The vehicle mounts a 50 caliber machine gun for self-protection. It is configured with three winches, an improved spade, and an improved A-frame boom which enables the vehicle to have a 35 ton lift capability. The M88A2 is an improvement over the M88A1 Medium Recovery Vehicle (MRV); it is the only vehicle with the capable of providing Single Vehicle Recovery (SVR) of the 70 ton Abrams tank.

AAO: 933

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	29	39	14	-	14	11	-	-	-
Total Obligation Authority	99.100	163.152	67.986	-	67.986	59.419	-	-	-
ANG	7	8	8	-	8	6	-	-	-
Total Obligation Authority	23.351	23.977	23.977	-	23.977	17.983	-	-	-
Total:	36	47	22	-	22	17	-	-	-
Secondary Distribution	122.451	187.129	91.963	-	91.963	77.402	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles

P-1 Line Item Number / Title:
 GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

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

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

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	P-5a, P-21	A	734 / 2,068.120	36 / 122.451	47 / 187.129	22 / 91.963	- / -	22 / 91.963
P-40	Total Gross/Weapon System Cost			734 / 2,068.120	36 / 122.451	47 / 187.129	22 / 91.963	- / -	22 / 91.963

*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 \$91.963 million supports the vehicle production and the procurement of 22 M88A2 vehicles with M88 Family of Vehicles Operational Modifications with cut-in during production. The fielded M88A1 Medium Recovery Vehicle lacks the necessary power, weight, and braking ability to safely support the recovery of the Abrams fleet by itself. Improvements in the M88A2 HERCULES fix these operational shortcomings. The increased winching and lifting capability accommodates all 70 ton Abrams variants. Without this increased capability, units must use two M88A1 Medium Recovery Vehicles to perform the necessary spectrum of recovery operations. The M88A2 procurement continues to support the supplier/vendor industrial base to mitigate any M88A2 production break.

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: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)
		Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

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)	734	36	47	22	-	22
Gross/Weapon System Cost (\$ in Millions)	2,068.120	122.451	187.129	91.963	-	91.963
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,068.120	122.451	187.129	91.963	-	91.963
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,068.120	122.451	187.129	91.963	-	91.963

(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 Thousands)	2,817.602	3,401.417	3,981.468	4,180.136	-	4,180.136

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Vehicle Manufacturing - Contractor ^(t)	2,817.602	734	2,068.120	2,998.583	36	107.949	3,088.489	47	145.159	2,987.000	22	65.714	-	-	-	2,987.000	22	65.714
Vehicle Manufacturing - GFE	-	-	-	-	-	3.671	-	-	3.214	-	-	1.534	-	-	-	-	-	1.534
System Technical Support	-	-	-	-	-	-	-	-	21.115	-	-	13.681	-	-	-	-	-	13.681
Program Management	-	-	-	-	-	5.482	-	-	5.630	-	-	5.750	-	-	-	-	-	5.750
Transportation	-	-	-	-	-	-	-	-	1.529	-	-	0.730	-	-	-	-	-	0.730
Fielding (TPF & NET)	-	-	-	-	-	-	-	-	0.448	-	-	0.214	-	-	-	-	-	0.214
Test (Production Verification Testing)	-	-	-	-	-	-	-	-	2.934	-	-	0.952	-	-	-	-	-	0.952
M88A1 Hull Reclamation	-	-	-	-	-	5.349	-	-	7.100	-	-	3.388	-	-	-	-	-	3.388
<i>Subtotal: Recurring Cost</i>	-	-	2,068.120	-	-	122.451	-	-	187.129	-	-	91.963	-	-	-	-	-	91.963
<i>Subtotal: Flyaway Cost</i>	-	-	2,068.120	-	-	122.451	-	-	187.129	-	-	91.963	-	-	-	-	-	91.963
Gross/Weapon System Cost	2,817.602	734	2,068.120	3,401.417	36	122.451	3,981.468	47	187.129	4,180.136	22	91.963	-	-	-	4,180.136	22	91.963

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	29	39	14	-	14

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	99.100	163.152	67.986	-	67.986
ANG	Quantity	7	8	8	-	8
	Total Obligation Authority	23.351	23.977	23.977	-	23.977
Total:	Quantity	36	47	22	-	22
Secondary Distribution	Total Obligation Authority	122.451	187.129	91.963	-	91.963

(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: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)				Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)				

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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Vehicle Manufacturing - Contractor ^(†)		2014	BAE Systems / York PA	SS / FFP	TACOM	Sep 2014	Oct 2015	53	2,887.038	Y		
Vehicle Manufacturing - Contractor ^(†)		2015	BAE Systems / York PA	SS / FFP	TACOM	Apr 2015	Jan 2017	36	2,998.583	Y		
Vehicle Manufacturing - Contractor ^(†)		2016	BAE Systems / York PA	SS / FFP	TACOM	Apr 2016	Dec 2017	47	3,088.489	Y		
Vehicle Manufacturing - Contractor ^(†)		2017	BAE Systems / York PA	SS / FFP	TACOM	Apr 2017	Jan 2019	22	2,987.000	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: 2033A / 01 / 20										P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)										Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016														Fiscal Year 2017														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Vehicle Manufacturing - Contractor																																			
Prior Years Deliveries: 681																																			
1	2014	ARMY (IV)	53	-	53	2	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4									-					
1	2015	ARMY (V)	36	-	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	-					
1	2016	ARMY (VI)	47	-	47							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47						
1	2017	ARMY (VII)	22	-	22																			A	-	-	-	-	22						
1	2017	FMS (†) (VIII)	6	-	6																			A	-	-	-	-	6						
1	2017	MC (†) (IX)	1	-	1																			A	-	-	-	-	-						
1	2017	Total	29	-	29																								28						
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)
		Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

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 - York PA	1	8	12	-	12	12	24	-	7	21	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).

Service/Agency Suffixes:

- (IV) 53
- (V) 36
- (VI) 47
- (VII) 22
- (VIII) 6
- (IX) 1

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles	P-1 Line Item Number / Title: GZ3250 / Assault Bridge (Mod)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	338.976	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481	-	370.833
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	338.976	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481	-	370.833
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	338.976	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481	-	370.833

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	672.500	-	672.500	-	-	-	-	-	433.216

Description:

The Assault Bridge (MOD) budget line funds the modifications of assault bridging equipment. It is used to procure hardware, materials, and hardware installation cost required to complete the modification. Modifications are performed to correct safety deficiencies, increase mission capabilities, extend the useful life, improve supportability, upgrade existing technology, increase efficiency, improve readiness and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 GZ3250 / Assault Bridge (Mod)

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-3a	GZ3250 / Assault Bridge Modifications (Equipment Upgrade/Technical Insertion)			- / 338.976	- / 2.968	- / 2.461	- / 3.465	- / 5.950	- / 9.415
P-40	Total Gross/Weapon System Cost			- / 338.976	- / 2.968	- / 2.461	- / 3.465	- / 5.950	- / 9.415

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GZ3250 / Assault Bridge Modifications (Equipment Upgrade/Technical Insertion)			- / 5.855	- / 2.481	- / 3.196	- / 5.481	- / -	- / 370.833
P-40	Total Gross/Weapon System Cost			- / 5.855	- / 2.481	- / 3.196	- / 5.481	- / -	- / 370.833

*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 \$3.465 million supports the conversion of 7 original Military Load Class (MLC) 60 bridges to the more capable MLC 85 version. Modifying existing equipment will correct safety deficiencies, increase mission capabilities, extend the useful life, improve supportability, upgrade existing technology, increase efficiency, and improve readiness.
 The FY17 OCO includes \$5.590 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurements include the conversion of 14 original Military Load Class (MLC) 60 bridges to the more capable MLC 85 version. Modifying existing equipment will correct safety deficiencies, increase mission capabilities, extend the useful life, improve supportability, upgrade existing technology, increase efficiency, and improve readiness.
 This procurement supports the establishment of one Armored Brigade Combat Team for European Reassurance Initiative (ERI). Procurement is necessary to outfit the Pre-Positioned equipment set. There is no excess inventory or viable substitute available to support the ERI requirement.
 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-3a, Individual Modification: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GZ3250 / Assault Bridge (Mod)				Modification Number / Title: GZ3250 / Assault Bridge Modifications				

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>)	338.976	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481	-	370.833
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	338.976	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481	-	370.833
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	338.976	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481	-	370.833

(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 Thousands</i>)	-	-	-	672.500	-	672.500	-	-	-	-	-	433.216

Description:

The Assault Bridge (MOD) budget line funds the modifications of assault bridging equipment. It is used to procure hardware, materials, and hardware installation cost required to complete the modification. Modifications are performed to correct safety deficiencies, increase mission capabilities, extend the useful life, improve supportability, upgrade existing technology, increase efficiency, improve readiness and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment. Installation costs are included in the cost of each kit.

Armored Vehicle Launch Bridge (MOD 1): The Armored Vehicle Launch Bridge modifications include procurement/installation for improvements to the Hydraulic and Electrical Unit modification kit. Upgrades include an Instrumentation Kit including temperature and pressure gauges for the driver/operator and improvements to the hydraulic filter block package. These improvements will improve the reliability of the hydraulic system. Additionally, AVLB Bridge conversions from the MLC 60 to the MLC 85 configuration will be procured to provide the AVLB units with current required crossing capability for the maneuver force. Installation costs are included in the cost of each kit.

Assault Breacher Vehicle (MOD 2): Modifications to the Assault Breacher Vehicle program includes a modification to the Full Width Mine Plow. The modification includes replacing the existing tine tips with a tine adaptor and replaceable tip. The new tip is held in place by a roll pin. This modification will strengthen the tine and will reduce the mean time to repair. It will also extend the service life of the tines.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GZ3250 / Assault Bridge (Mod)					Modification Number / Title: GZ3250 / Assault Bridge Modifications				
Models of Systems Affected: Armored Vehicle Launch Bridge, Assault Breacher Vehicle				Modification Type: Equipment Upgrade/Technical Insertion				Related RDT&E PEs:						
Financial Plan	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		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
Procurement														
<i>Modification Item 1 of 2: Armored Vehicle Launch Bridge MLC60 to MLC85</i>														
A Kits														
Recurring														
Bridge Upgrade	0 / 338.976	3 / 1.125	3 / 1.250	7 / 2.941	14 / 5.950	21 / 8.891	12 / 5.103	4 / 1.801	6 / 2.580	11 / 5.033	- / -	60 / 364.759		
<i>Subtotal: Recurring</i>	- / 338.976	- / 1.125	- / 1.250	- / 2.941	- / 5.950	- / 8.891	- / 5.103	- / 1.801	- / 2.580	- / 5.033	- / -	- / 364.759		
<i>Subtotal: Armored Vehicle Launch Bridge MLC60 to MLC85</i>	0 / 338.976	3 / 1.125	3 / 1.250	7 / 2.941	14 / 5.950	21 / 8.891	12 / 5.103	4 / 1.801	6 / 2.580	11 / 5.033	- / -	60 / 364.759		
<i>Modification Item 2 of 2: Assault Breacher Vehicle</i>														
A Kits														
Recurring														
Installation Kits	- / -	95 / 1.443	75 / 0.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 2.230		
<i>Subtotal: Recurring</i>	- / -	- / 1.443	- / 0.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.230		
<i>Subtotal: Assault Breacher Vehicle</i>	- / -	95 / 1.443	75 / 0.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 2.230		
<i>Subtotal: Procurement, All Modification Items</i>	0 / 338.976	98 / 2.568	78 / 2.037	7 / 2.941	14 / 5.950	21 / 8.891	12 / 5.103	4 / 1.801	6 / 2.580	11 / 5.033	- / -	230 / 366.989		
Installation														
<i>Modification Item 1 of 2: Armored Vehicle Launch Bridge MLC60 to MLC85</i>														
	0 / 0.000	- / 0.400	3 / 0.424	3 / 0.424	- / -	3 / 0.424	21 / 0.568	12 / 0.496	4 / 0.432	6 / 0.448	- / -	49 / 3.192		
<i>Modification Item 2 of 2: Assault Breacher Vehicle</i>														
	0 / 0.000	- / -	- / -	20 / 0.100	- / -	20 / 0.100	50 / 0.184	50 / 0.184	50 / 0.184	- / -	- / -	170 / 0.652		
<i>Subtotal: Installation</i>	0 / 0.000	- / 0.400	3 / 0.424	23 / 0.524	- / -	23 / 0.524	71 / 0.752	62 / 0.680	54 / 0.616	6 / 0.448	- / -	219 / 3.844		
Total														
Total Cost (Procurement + Support + Installation)	338.976	2.968	2.461	3.465	5.950	9.415	5.855	2.481	3.196	5.481	-	370.833		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3250 / Assault Bridge (Mod)	Modification Number / Title: GZ3250 / Assault Bridge Modifications

Modification Item 1 of 2: Armored Vehicle Launch Bridge MLC60 to MLC85

Manufacturer Information

Manufacturer Name: Anniston Army Depot	Manufacturer Location: Anniston Alabama
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 10

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022
Delivery Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022

Installation Information

Method of Implementation: Anniston Army Depot

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.400	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.400
FY 2015	0 / 0.000	- / -	3 / 0.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.424
FY 2016	0 / 0.000	- / -	- / -	3 / 0.424	- / -	3 / 0.424	- / -	- / -	- / -	- / -	- / -	3 / 0.424
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	21 / 0.568	- / -	- / -	- / -	- / -	21 / 0.568
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.496	- / -	- / -	- / -	12 / 0.496
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.432	- / -	- / -	4 / 0.432
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.448	- / -	6 / 0.448
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / 0.400	3 / 0.424	3 / 0.424	- / -	3 / 0.424	21 / 0.568	12 / 0.496	4 / 0.432	6 / 0.448	- / -	49 / 3.192

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	3	-	-	-	3	-	-	-	21	-	-	-	12	-	-	-	4	-	-	-	6	-	-	-	11	-	-	-	60
Out	-	-	-	-	-	1	1	1	-	1	1	1	-	5	5	5	6	3	3	3	3	1	1	1	1	1	1	2	2	11	60

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3250 / Assault Bridge (Mod)	Modification Number / Title: GZ3250 / Assault Bridge Modifications

Modification Item 2 of 2: Assault Breacher Vehicle

Manufacturer Information

Manufacturer Name: Pearson LTD	Manufacturer Location: Newcastle, UK
Administrative Leadtime (in Months): 21	Production Leadtime (in Months): 14

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2016	Jun 2016					
Delivery Dates	Aug 2017	Aug 2019					

Installation Information

Method of Implementation: Various

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	20 / 0.100	- / -	20 / 0.100	50 / 0.184	25 / 0.184	- / 0.184	- / -	- / -	95 / 0.652
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	25 / -	50 / -	- / -	- / -	75 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	20 / 0.100	- / -	20 / 0.100	50 / 0.184	50 / 0.184	50 / 0.184	- / -	- / -	170 / 0.652

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4																													
In	-	-	-	95	-	-	-	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170
Out	-	-	-	-	-	-	-	-	-	-	-	-	20	12	13	13	12	12	13	13	12	12	13	13	12	-	-	-	-	-	-	-	170	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles

P-1 Line Item Number / Title:
G82925 / Assault Breacher Vehicle

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>)	109	7	-	-	-	-	-	-	-	-	-	116
Gross/Weapon System Cost (<i>\$ in Millions</i>)	414.709	36.088	2.975	2.928	-	2.928	-	-	-	-	-	456.700
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	414.709	36.088	2.975	2.928	-	2.928	-	-	-	-	-	456.700
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	414.709	36.088	2.975	2.928	-	2.928	-	-	-	-	-	456.700

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	3,804.670	5,155.429	-	-	-	-	-	-	-	-	-	3,937.069

Description:

The Assault Breacher Vehicle (ABV) is a combined program with the United States Marine Corps (USMC). It is a tracked combat engineer vehicle for the Marine Air Ground Task Force and the Army Armored Brigade Combat Team (ABCT). It is designed to breach minefields and barrier obstacles to enable the tanks and infantry of the ABCT to maintain pace in offensive combat operations. The ABV provides crew protection and vehicle survivability equal to the M1A1 Abrams tank hull and has the speed and mobility to keep pace with the heavy maneuver force. The ABV is assigned to engineer companies in ABCTs. Its hull is an overhauled M1A1 Abrams tank hull with modifications for its new mission. Its mission equipment includes two Linear Demolition Charge Systems (modified Mine Clearing Line Charge (MICLC) systems), interchangeable Engineer Breaching System hardware consisting of a Full Width Mine Plow and a Combat Dozer Blade, a Lane Marking System to automatically mark a cleared path behind the ABV, and an integrated day/night vision system.

Army Acquisition Objective (AAO) ABV: 129

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	7	-	-	-	-	-	-	-	-
	Total Obligation Authority	36.088	2.975	2.928	-	2.928	-	-	-	-
Total: Secondary Distribution	Quantity	7	-	-	-	-	-	-	-	-
	Total Obligation Authority	36.088	2.975	2.928	-	2.928	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** G82925 / Assault Breacher Vehicle

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)					
P-5	G82925 / Assault Breacher Vehicle	P-5a, P-21		109 / 414.709	7 / 36.088	- / 2.975	- / 2.928	- / -	- / 2.928
P-40	Total Gross/Weapon System Cost			109 / 414.709	7 / 36.088	- / 2.975	- / 2.928	- / -	- / 2.928

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

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

Justification:
 FY 2017 Base procurement dollars in the amount of \$2.928 million support the System Engineering/Program Management and fielding. The ABV gives the Army and Marine Corps a tracked armored capability to breach minefields, reduce barrier obstacles, and mark cleared lanes for following heavy combat forces while maintaining pace with them throughout high intensity combat operations. The ABV is fabricated at Anniston Army Depot.

 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: 2033A / 01 / 20		P-1 Line Item Number / Title: G82925 / Assault Breacher Vehicle
		Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle

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

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	109	7	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	414.709	36.088	2.975	2.928	-	2.928
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	414.709	36.088	2.975	2.928	-	2.928
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	414.709	36.088	2.975	2.928	-	2.928

(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 Thousands)	3,804.670	5,155.429	-	-	-	-

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware ^(†)	3,422.000	109	372.998	2,899.000	7	20.293	-	-	-	-	-	-	-	-	-	-	-	-
1. Full Width Mine Plow	287.000	8	2.296	381.000	4	1.524	-	-	-	-	-	-	-	-	-	-	-	-
2. Combat Dozer Blade	140.000	4	0.560	187.000	2	0.374	-	-	-	-	-	-	-	-	-	-	-	-
3. High Lift Adapter	167.000	14	2.338	211.000	7	1.477	-	-	-	-	-	-	-	-	-	-	-	-
4. Lane Marking System	165.000	14	2.310	209.857	7	1.469	-	-	-	-	-	-	-	-	-	-	-	-
5. Linear Demolition Control System	150.000	14	2.100	172.000	7	1.204	-	-	-	-	-	-	-	-	-	-	-	-
6. Integrated Vision System	280.000	14	3.920	415.000	7	2.905	-	-	-	-	-	-	-	-	-	-	-	-
7. Hull Integration Kit	16.000	14	0.224	16.000	7	0.112	-	-	-	-	-	-	-	-	-	-	-	-
8. Embedded Diagnostic Kit	35.000	14	0.490	75.000	7	0.525	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	12.000	-	-	2.253	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
System Engineering/ Program Management	-	-	10.423	-	-	2.352	-	-	1.975	-	-	1.928	-	-	-	-	-	1.928
Data	-	-	5.050	-	-	1.600	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>414.709</i>	<i>-</i>	<i>-</i>	<i>36.088</i>	<i>-</i>	<i>-</i>	<i>2.975</i>	<i>-</i>	<i>-</i>	<i>2.928</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2.928</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>414.709</i>	<i>-</i>	<i>-</i>	<i>36.088</i>	<i>-</i>	<i>-</i>	<i>2.975</i>	<i>-</i>	<i>-</i>	<i>2.928</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2.928</i>

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20						P-1 Line Item Number / Title: G82925 / Assault Breacher Vehicle						Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle					
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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	3,804.670	109	414.709	5,155.429	7	36.088	-	-	2.975	-	-	2.928	-	-	-	-	-	2.928

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	7	-	-	-	-
	Total Obligation Authority	36.088	2.975	2.928	-	2.928
Total:	Quantity	7	-	-	-	-
Secondary Distribution	Total Obligation Authority	36.088	2.975	2.928	-	2.928

(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: 2033A / 01 / 20	P-1 Line Item Number / Title: G82925 / Assault Breacher Vehicle	Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle
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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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware ^(†)		2015	Anniston Army Depot / Anniston	MIPR	TACOM, Warren, MI	Jun 2015	Jun 2016	7	2,899.000	Y	Jan 2007	Jan 2007

^(†) 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: 2033A / 01 / 20 **P-1 Line Item Number / Title:** G82925 / Assault Breacher Vehicle **Item Number / Title [DODIC]:** G82925 / Assault Breacher Vehicle

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				
Hardware																																			
Prior Years Deliveries: 109																																			
1	2015	ARMY (X)		7	-	7											A	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	3	

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: G82925 / Assault Breacher Vehicle	Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle
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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	Anniston Army Depot - Anniston	1	1	3	-	8	13	21	-	9	12	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).

Service/Agency Suffixes:

(X) Base

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** G80571 / M88 FOV MODS

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>)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The M88 Fleet Modification Program applies Materiel Developer and Combat Developer approved modifications to the fielded M88 family of vehicles (FOV). These improvements include Blue Force Tracking and the M88 FOV modifications to maintain operational readiness rates, improve vehicle safety and operation, and minimize the effects of component obsolescence, while increasing commonality. Operational Modification Kits will be procured for the M88 FOV. Specific modifications include an automatic fire extinguishing system, upgraded electrical circuit panel, improved operational and task lighting, a driver's vision enhancer for optimal night operation, and an improved metal cutting tool to reduce recovery time in combat situations.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.806	14.878	8.685	-	8.685	4.826	4.558	-	-
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.169	-	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 G80571 / M88 FOV MODS

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-3a	G80571 / M88 FOV Field Upgrade (Increase Performance)			- / 95.914	- / 1.975	- / 14.878	- / 8.685	- / -	- / 8.685
P-40	Total Gross/Weapon System Cost			- / 95.914	- / 1.975	- / 14.878	- / 8.685	- / -	- / 8.685

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	G80571 / M88 FOV Field Upgrade (Increase Performance)			- / 4.826	- / 4.558	- / -	- / -	- / -	- / 130.836
P-40	Total Gross/Weapon System Cost			- / 4.826	- / 4.558	- / -	- / -	- / -	- / 130.836

*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 \$8.685 Million supports field safety and operational modification fixes. Modification fixes include automatic fire extinguishing system enhancements, C4ISR (command, control, communications, computers, intelligence, surveillance and reconnaissance) integration efforts, hydraulic system safety enhancements, engine reliability improvements, recovery equipment enhancements, upgraded electrical circuit panel, improved operational and task lighting, a driver's vision enhancer for optimal night operation, and an improved metal cutting tool to reduce recovery time in combat situations. Modifications support enhancements in operational safety, maintainability, and network capability for the M88 fleet of vehicles.

The FY 2017 funding request was reduced by \$.109 million to account for the availability of prior year execution balances.

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-3a, Individual Modification: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: G80571 / M88 FOV MODS				Modification Number / Title: G80571 / M88 FOV Field Upgrade				

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>)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Supports field Safety and operational modification fixes. Modification fixes include automatic fire extinguishing system enhancements, C4ISR (command, control, communications, computers, intelligence, surveillance and reconnaissance) integration efforts, hydraulic system safety enhancements, engine reliability improvements, recovery equipment enhancements, upgraded electrical circuit panel, improved operational and task lighting, a driver's vision enhancer for optimal night operation, and an improved metal cutting tool to reduce recovery time in combat situations. Modifications support enhancements in operational safety, maintainability, and network capability for the M88 fleet of vehicles. Field installation costs are included in the contractor cost and cannot be separated.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.806	14.878	8.685	-	8.685	4.826	4.558	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.169	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: G80571 / M88 FOV MODS					Modification Number / Title: G80571 / M88 FOV Field Upgrade			
Models of Systems Affected: M88				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
<i>Modification Item 1 of 1: Field Safety and Operational Modifications</i>													
A Kits													
Recurring													
M88 FOV Mod Kit & Install	860 / 95.914	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	860 / 95.914	
Field Safety & Operational Fixes STS	- / -	- / 1.975	- / 14.878	- / 8.685	- / -	- / 8.685	- / 4.826	- / 4.558	- / -	- / -	- / -	- / 34.922	
<i>Subtotal: Recurring</i>	<i>- / 95.914</i>	<i>- / 1.975</i>	<i>- / 14.878</i>	<i>- / 8.685</i>	<i>- / -</i>	<i>- / 8.685</i>	<i>- / 4.826</i>	<i>- / 4.558</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 130.836</i>	
<i>Subtotal: Field Safety and Operational Modifications</i>	<i>860 / 95.914</i>	<i>- / 1.975</i>	<i>- / 14.878</i>	<i>- / 8.685</i>	<i>- / -</i>	<i>- / 8.685</i>	<i>- / 4.826</i>	<i>- / 4.558</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>860 / 130.836</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>860 / 95.914</i>	<i>- / 1.975</i>	<i>- / 14.878</i>	<i>- / 8.685</i>	<i>- / -</i>	<i>- / 8.685</i>	<i>- / 4.826</i>	<i>- / 4.558</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>860 / 130.836</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836	

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: G80571 / M88 FOV MODS	Modification Number / Title: G80571 / M88 FOV Field Upgrade
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Modification Item 1 of 1: Field Safety and Operational Modifications

Manufacturer Information

Manufacturer Name: BAE Land Systems	Manufacturer Location: York, PA
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019		
Delivery Dates	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020		

Installation Information

Method of Implementation (Organic): Contractor installed in the field	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles

P-1 Line Item Number / Title:
GZ3001 / Joint Assault Bridge

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0654804A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** X33

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	3	9	-	9	18	23	26	24	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	20.460	39.362	33.455	64.752	-	64.752	128.967	166.930	183.719	170.743	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	20.460	39.362	33.455	64.752	-	64.752	128.967	166.930	183.719	170.743	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	20.460	39.362	33.455	64.752	-	64.752	128.967	166.930	183.719	170.743	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	7,872.400	11,151.667	7,194.667	-	7,194.667	7,164.833	7,257.826	7,066.115	7,114.292	Continuing	Continuing

Description:

The Joint Assault Bridge (JAB) replaces the existing Wolverine and M48A5/M60A2 chassis Armored Vehicle Launch Bridge (AVLB) to meet current maneuver force survivability, suitability and supportability thresholds. The JAB is an M1A1 Abrams Chassis-based engineer vehicle with a Heavy M1A2 Abrams suspension that launches and retrieves the 18.3 meter AVLB Military Load Class Bridge. AVLB bridges will be upgraded to MLC 85 standard as part of the JAB program at Anniston Army Depot. The system will be employed with Army Armored Brigade Combat Teams (ABCTs) within the Brigade Engineer battalions (BEBs), Engineer Mobility Augmentation Companies (MACs), as well as the Marines. The JAB is currently in the Engineering and Manufacturing Development Phase with two variant system designs being evaluated in accordance with (IAW) user requirements. Milestone C and Type Classification - Limited Procurement Decision is planned for second quarter 2016. The production acquisition strategy encourages establishment of a public/private partnership with Anniston Army Depot (ANAD)/Developmental Test completion is planned for March 2018, and Initial Operational Test completion is planned for June 2018 to support a Full Rate Production Decision in FY18.

JAB AAO: 337

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	5	3	9	-	9	6	4	4	8
	Total Obligation Authority	39.362	33.455	64.752	-	64.752	52.562	28.441	25.407	70.743
ANG	Quantity	-	-	-	-	-	6	11	11	8
	Total Obligation Authority	-	-	-	-	-	42.645	80.382	79.156	50.000
AR	Quantity	-	-	-	-	-	6	8	11	8
	Total Obligation Authority	-	-	-	-	-	33.760	58.107	79.156	50.000
Total:	Quantity	5	3	9	-	9	18	23	26	24
Secondary Distribution	Total Obligation Authority	39.362	33.455	64.752	-	64.752	128.967	166.930	183.719	170.743

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GZ3001 / Joint Assault Bridge

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0654804A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** X33

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)					
P-5	GZ3001 / Joint Assault Bridge	P-5a, P-21		- / 20.460	5 / 39.362	3 / 33.455	9 / 64.752	- / -	9 / 64.752
P-40	Total Gross/Weapon System Cost			- / 20.460	5 / 39.362	3 / 33.455	9 / 64.752	- / -	9 / 64.752

*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 \$64.752 million procures 9 Joint Assault Bridges in support of Active Army requirements. The JAB fills a critical shortage in recently established BEB formations. The new JAB chassis provides a system that offers the Combatant Commander enhanced survivability and mobility compared to the legacy M60 AVLB and equivalent to the Abrams Legacy Fleet while also providing improved sustainability. The current Acquisition Strategy supports a public private partnership between the winning contractor and Anniston Army Depot.

The FY 2017 funding request was reduced by \$9.280 million to account for the availability of prior year execution balances.

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: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** X33

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	5	3	9	-	9
Gross/Weapon System Cost (\$ in Millions)	20.460	39.362	33.455	64.752	-	64.752
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	20.460	39.362	33.455	64.752	-	64.752
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	20.460	39.362	33.455	64.752	-	64.752

(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 Thousands)	-	7,872.400	11,151.667	7,194.667	-	7,194.667

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware ^(†)	-	-	20.460	6,250.000	5	31.250	6,250.000	3	18.750	6,250.000	9	56.250	-	-	-	6,250.000	9	56.250
Bridge Upgrades	-	-	-	400.000	5	2.000	400.000	3	1.200	469.000	9	4.221	-	-	-	469.000	9	4.221
Engineering Changes	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
System Engineering/Program Management	-	-	-	-	-	2.000	-	-	2.000	-	-	2.145	-	-	-	-	-	2.145
Support Equipment	-	-	-	-	-	-	-	-	-	-	-	0.015	-	-	-	-	-	0.015
Fielding	-	-	-	-	-	0.300	-	-	0.200	-	-	0.582	-	-	-	-	-	0.582
<i>Subtotal: Recurring Cost</i>	-	-	20.460	-	-	35.550	-	-	22.150	-	-	63.713	-	-	-	-	-	63.713
Non Recurring Cost																		
Simulators	-	-	-	-	-	-	-	-	-	-	-	1.039	-	-	-	-	-	1.039
Logistics Products	-	-	-	-	-	3.812	-	-	11.305	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	3.812	-	-	11.305	-	-	1.039	-	-	-	-	-	1.039
<i>Subtotal: Flyaway Cost</i>	-	-	20.460	-	-	39.362	-	-	33.455	-	-	64.752	-	-	-	-	-	64.752
Gross/Weapon System Cost	-	-	20.460	7,872.400	5	39.362	11,151.667	3	33.455	7,194.667	9	64.752	-	-	-	7,194.667	9	64.752

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	5	3	9	-	9
	Total Obligation Authority	39.362	33.455	64.752	-	64.752

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Exhibit P-5, Cost Analysis: PB 2017 Army				Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge		Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code: X33			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Total:	Quantity	5	3	9	-	9
Secondary Distribution	Total Obligation Authority	39.362	33.455	64.752	-	64.752

(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: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge
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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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware ^(†)		2015	TBD / TBS	C / TBD	TACOM, Warren, MI	Mar 2016	May 2017	5	6,250.000	N		
Hardware ^(†)		2016	TBD / TBS	C / TBD	TACOM, Warren, MI	Mar 2016	Oct 2017	3	6,250.000	N		
Hardware ^(†)		2017	TBD / TBS	C / TBD	TACOM, Warren, MI	Mar 2017	Jan 2018	9	6,250.000	N		

^(†) indicates the presence of a P-21

Remarks:

Anticipate a public private partnership with Anniston Army Depot providing overhauled M1A1 Abrams Chassis.

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018											Fiscal Year 2019											BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018											Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L	A U G
Hardware																														
	1	2015	ARMY	5	5	-																								-
	1	2016	ARMY	3	-	3	1	1	1																					-
	1	2017	ARMY	9	-	9	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge
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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	TBD - TBS	1	2	4	-	18	14	32	-	6	10	16

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

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 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: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GA0700 / M1 Abrams Tank (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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>)	5,199.685	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353	16,622.398	25,045.351
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,199.685	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353	16,622.398	25,045.351
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5,199.685	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353	16,622.398	25,045.351

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	10,670.356	-	10,670.356	-	-	-	-	-	215,908.198

Description:

The Abrams Tank Fleet Modification Program applies Materiel Developer and Combat Developer approved modifications to the fielded Abrams family of vehicles either through field modifications at the unit or through application during vehicle recapitalization. Common Abrams modifications include Vehicle Health Management System and Embedded Training (VEM), Blue Force Tracking, Mounted Family of Computer System (MFoCs) and Power Train Improvement & Integration Optimization Program (i.e. Total Integrated Engine Revitalization (TIGER) and Transmission Enterprise) which provide more reliability, durability, and a single standard for the vehicle's power train. Survivability improvements include frontal and side armor upgrades. Key safety improvements include the loaders tray modification, ammunition rack upgrades, and Rear View Sensing System (RVSS).

The Abrams program must execute a series of Engineering Change Proposals (ECPs) to address capability gaps on the tank fleet. These technology upgrades will be integrated through a recapitalization program between Anniston Army Depot and General Dynamics Land Systems (GDLS). ECP 1A addresses interoperability on the network and system shortfalls in electrical power to enable integration of approved directed requirements, survivability improvements and an electronics refresh to address obsolescence and significantly improve sustainability. Specifically the upgrades include an updated Handheld Manpack Small (HMS) communication system, a new 1000 amp generator, power management distribution system (a new slip ring, battery monitoring system, and an Auxiliary Power Unit (APU)), the integration kit for the Counter Radio-Controlled IED Electronic Warfare (CREW/Duke3), Next Generation Armor, Ammunition Data Link (ADL) to enable the system to fire a smart round currently in low-rate production, and the upgrade of ten (10) line replaceable units (LRUs) into six (6) line replaceable modules (LRMs).

This program also supports the Army's Abrams tank industrial base (IB) strategy, which is focused on mitigating impacts to the Abrams tank industrial base by preserving critical suppliers, critical engineering skills, and maintaining, optimizing, and modernizing the manufacturing facilities and equipment that support the Abrams tank IB.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** GA0700 / M1 Abrams Tank (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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-3a	GA0700 / Mods (Increase Performance)			- / 5,199.685	- / 237.023	- / 430.939	- / 480.166	- / -	- / 480.166
P-40	Total Gross/Weapon System Cost			- / 5,199.685	- / 237.023	- / 430.939	- / 480.166	- / -	- / 480.166

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GA0700 / Mods (Increase Performance)			- / 529.924	- / 500.838	- / 501.025	- / 543.353	- / 16,622.398	- / 25,045.351
P-40	Total Gross/Weapon System Cost			- / 529.924	- / 500.838	- / 501.025	- / 543.353	- / 16,622.398	- / 25,045.351

*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 \$480.166 million support the procurement and field application of the following: Ammunition Data Link (ADL), Vehicle Health Management System and Embedded Training (VEM), and Common Remote Operated Weapon Station Low Profile (CROWS-LP). Funding will continue the ECP 1A hardware procurement for installation during vehicle recapitalization in FY 2018. Funding will continue the support of the Total Integrated Engine Revitalization (TIGER) and Transmission Enterprise programs, Direct Support Electrical System Test Sets (DSESTS) and upgrades to Training Aids, Devices, Simulators and Simulations (TADSS). This funding supports the maintenance, optimization, and modernization of the production facility and equipment at the Joint Systems Manufacturing Center (JSMC), Lima, OH, Allison Transmission, Tallahassee and the Scranton, PA, Raytheon and DRS facility to support the start of future production, to produce efficiently at low volumes, and to maintain the Abrams tank manufacturing capability. Qualification of an alternate source of supply for the transmission and other tank components will be analyzed and executed as needed to ensure that the Abrams tank IB manufacturing capability is preserved. The funding strategy includes direct targeted investment in the Abrams tank IB including procurement of critical components and critical technical engineering efforts that, if not addressed, would place the Abrams tank IB manufacturing and technical engineering capability at risk.

The FY 2017 funding request was reduced by \$4.781 million to account for the availability of prior year execution balances.

In accordance with Section 1815 of the FY2008 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-3a, Individual Modification: PB 2017 Army										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)						Modification Number / Title: GA0700 / Mods		
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>)	5,199.685	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353	16,622.398	25,045.351
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,199.685	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353	16,622.398	25,045.351
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5,199.685	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353	16,622.398	25,045.351
<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 Thousands</i>)	-	-	-	10,670.356	-	10,670.356	-	-	-	-	-	215,908.198

Description:

Modifications to the Abrams Family of Vehicles. Supports the procurement and field application of the following: Ammunition Data Link (ADL), Vehicle Health Management System and Embedded Training (VEM), and Common Remote Operated Weapon Station Low Profile (CROWS-LP). Begins ECP 1A hardware procurement for installation during vehicle recapitalization in FY 2017. Funding will continue the support of the Total Integrated Engine Revitalization (TIGER) and Transmission Enterprise programs, Direct Support Electrical System Test Sets (DSESTS) and upgrades to Training Aids, Devices, Simulators and Simulations (TADSS). This funding supports the maintenance, optimization, and modernization of the production facility and equipment at the Joint Systems Manufacturing Center, Lima, OH, Allison Transmission, Tallahassee and the Scranton, PA facility to support the start of future production, to produce efficiently at low volumes, and to maintain the Abrams tank manufacturing capability. Qualification of an alternate source of supply for the transmission and other tank components will be analyzed and executed as needed to ensure that the Abrams tank IB manufacturing capability is preserved. The funding strategy includes direct targeted investment in the Abrams tank IB including procurement of critical components and critical technical engineering efforts that, if not addressed, would place the Abrams tank IB manufacturing and technical engineering capability at risk.

Abrams Field Upgrades (MOD 2): Provides funding for components and labor for required safety and other field related modifications. These modifications correct or alleviate operational deficiencies, improve reliability and maintainability, correct faulty performance or quality, reduce logistical support requirements, standardize equipment and training devices, prevent injury or damage to equipment, and meet environmental protection standards identified during testing, training exercises, or in combat. Field modifications include Blue Force Tracking (BFT) 2 and Mounted Family of Computer System (MFoCS), Ammunition Data Link (ADL), Vehicle Health Management System and Embedded Training (VEM), and Common Remote Operated Weapon Station Low Profile (CROWS-LP). Installation of hardware is generally conducted on a unit-by-unit basis by several field modification teams and is subject to availability. Installation costs are included in the contractor costs and cannot be broken out. Contractor dates will vary by item and cannot be predicted.

Engineering Change Proposal (ECP) 1A (MOD3): Funding for Engineering Change Proposal (ECP) 1A includes the procurement and application of Army Directed requirements for Space, Weight, and Power-Cooling (SWAP-C) buyback components during the recapitalization (RECAP) of the Abrams tank. Each vehicle will be overhauled to a zero hour/zero mile condition and then reassembled with the following additional hardware: Handheld Manpack Small (HMS), Power Generation/Distribution improvements including Battery Monitoring System (BMS), 1000 Amp Generator, Slip Ring, Counter Remote Controlled Improvised Explosive Device Electronic Warfare (CREW) III integration, Next Generation Armor, Ammunition Data Link (ADL) integration to enable firing of programmable munitions, and Under Armor Auxiliary Power Unit (UAAPU). Procurement of ECP 1A Hardware kits will begin in FY 2016. Vehicle induction, ECP kit application, and vehicle recapitalization will begin in FY 2017. Provides funding for the direct and targeted investment in the Abrams tank IB including procurement of critical components and critical technical engineering efforts that, if not addressed, would place the Abrams tank IB manufacturing and technical engineering capability at risk. Critical components and parts include, but are not limited to, the Abrams Transmission and 2nd Generation Forward-Looking-Infrared (FLIR) sensor.

Armor (MOD 4): Armor is provided by the Department of Energy (DOE). The armor facility was kept at a sustainable level to maintain the industrial base and minimize the loss of skilled labor. In that regard, FY15 funding supported the procurement of various classified armor components that could be configured to support both current and future production/recapitalization requirements. FY16 and beyond procures full Next Evolution Armor (NEA) packages which will be applied during ECP 1A vehicle recapitalization.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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Program/Engineering Support (MOD 5): This modification line funds contractor and government program/project managers' salaries, benefits, TDY, office automation, administration, and supplies. These funds also provide for dedicated functional support from the Tank Automotive Command (TACOM), Army Research and Development Command (ARDEC), Anniston Army Depot (ANAD), Joint Systems Manufacturing Center (JSMC), Abrams Material Fielding Team (MFT) at Ft. Hood, Texas, and other government sites. Additionally, this modification line funds System Technical Support (STS) from General Dynamics Land Systems (GDLS), General Dynamics Canada (GDC), Raytheon, and DRS Technologies. Formerly, these costs were funded in the Abrams Upgrade production line.

Power Pack Improvement & Integration Optimization (MOD 6): This modification reduces the Operating and Support (O&S) cost of the Abrams Tank power train. It equips the Abrams fleet with more reliability/durability, fuel efficiency, and provides a single overhaul standard for the vehicle's power train. This modification line funds System Technical Support (STS) from Honeywell for the TIGER engine and Allison Transmission. Qualification of an alternate source of supply for the transmission will be analyzed. Contractor dates will vary by item and cannot be predicted.

Training Devices (MOD 7): Provides funding for Training Aids, Devices, Simulators and Simulations (TADSS) in support of the Abrams family of vehicles. System training devices are required to remain current with upgraded fleet configuration/capabilities. TADSS include Maintenance Trainers, Gunnery Trainer Tech Refresh, Common Drivers Trainer Upgrades, Desktop Trainer Lesson modifications, Abrams Common Software Library modifications and Through Sight Video (TSV). Contractor dates will vary by item and cannot be predicted. Includes non-recurring engineering for hardware and software changes, procurement cost of the hardware associated with modifications to existing training devices, and field installation at the unit.

Facilities Optimization and Maintenance (MOD 8): This funding supports the maintenance, optimization, and modernization of the production facility and equipment at the Joint Systems Manufacturing Center, Lima, OH, Allison Transmission, Tallahassee and the Scranton, PA, Raytheon and DRS facilities to support the start of future production, to produce efficiently at low volumes, and to maintain the Abrams tank manufacturing capability. Funding will be utilized to address facilities maintenance, deferred facilities maintenance projects, internal restructuring of manufacturing facilities and equipment, as required, and operational energy improvements necessary to optimize facilities and production lines/manufacturing processes in an effort to increase efficiency at future/forecasted lower manufacturing rates. These efforts will include, but are not limited to, facilities maintenance, facilities maintenance projects and deferred maintenance projects, Occupational Safety and Health Administration (OSHA) compliance, quality of life, capital investment, equipment disposition, upgrade and replacement, operational energy improvements, establishment of new/optimized manufacturing lines and layouts.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)					Modification Number / Title: GA0700 / Mods			
Models of Systems Affected: Abrams Family of Vehicles				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
Procurement													
Modification Item 1 of 8: Prior Year Closed Mods													
A Kits													
Non-Recurring													
Other	0 / 2,842.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2,842.053	
Subtotal: Non-Recurring	- / 2,842.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2,842.053	
Subtotal: Prior Year Closed Mods	0 / 2,842.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2,842.053	
Modification Item 2 of 8: Abrams Field Upgrades													
A Kits													
Recurring													
CROWS-LP A and B Kits & ICDU upgrade	- / -	- / -	315 / 44.516	150 / 13.403	- / -	150 / 13.403	150 / 13.670	145 / 13.563	145 / 13.834	150 / 14.509	- / -	1,055 / 113.495	
VEM	- / -	- / -	45 / 5.758	60 / 7.828	- / -	60 / 7.828	60 / 7.984	55 / 7.465	55 / 7.614	60 / 8.472	- / -	335 / 45.121	
Ammunition Data Link (ADL)	- / -	405 / 59.281	- / -	60 / 2.153	- / -	60 / 2.153	150 / 19.693	145 / 19.900	145 / 20.298	150 / 20.898	- / -	1,055 / 142.223	
Maintenance Support Device Hard Drive	- / -	- / -	- / -	- / 0.510	- / -	- / 0.510	- / 0.027	- / 0.027	- / 0.028	- / 0.028	- / -	- / 0.620	
Safety/Operational Mods	0 / 23.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.450	
Support Equipment and TPF	0 / 51.633	- / 9.856	- / 14.683	- / 17.063	- / -	- / 17.063	- / 17.404	- / 17.752	- / 18.107	- / 18.469	- / -	- / 164.967	
Mine Plow and Roller kit	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.657	36 / 0.670	36 / 0.684	36 / 0.698	- / -	144 / 2.709	
Subtotal: Recurring	- / 75.083	- / 69.137	- / 64.957	- / 40.957	- / -	- / 40.957	- / 59.435	- / 59.377	- / 60.565	- / 63.074	- / -	- / 492.585	
Non-Recurring													
Installation Kits	0 / 283.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,577.270	- / 4,860.670	
CROWS-LP Engineering Support	0 / 6.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.283	
Subtotal: Non-Recurring	- / 289.683	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,577.270	- / 4,866.953	
Subtotal: Abrams Field Upgrades	0 / 364.766	405 / 69.137	360 / 64.957	270 / 40.957	- / -	270 / 40.957	396 / 59.435	381 / 59.377	381 / 60.565	396 / 63.074	- / 4,577.270	2,589 / 5,359.538	
Modification Item 3 of 8: Engineering Change Proposal (ECP) 1A													
A Kits													
Recurring													
ECP 1a Modification Kits	- / -	- / -	45 / 120.586	60 / 166.006	- / -	60 / 166.006	60 / 171.542	55 / 162.316	55 / 166.655	60 / 185.609	1,276 / 4,623.028	1,611 / 5,595.742	
Subtotal: Recurring	- / -	- / -	- / 120.586	- / 166.006	- / -	- / 166.006	- / 171.542	- / 162.316	- / 166.655	- / 185.609	- / 4,623.028	- / 5,595.742	

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)						Modification Number / Title: GA0700 / Mods		
Models of Systems Affected: Abrams Family of Vehicles				Modification Type: Increase Performance				Related RDT&E PEs:				
Financial Plan	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)			
<i>Subtotal: Engineering Change Proposal (ECP) 1A</i>	- / -	- / -	45 / 120.586	60 / 166.006	- / -	60 / 166.006	60 / 171.542	55 / 162.316	55 / 166.655	60 / 185.609	1,276 / 4,623.028	1,611 / 5,595.742
Modification Item 4 of 8: Armor												
A Kits												
Recurring												
Armor Sets	90 / 126.480	24 / 34.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 160.480
Next Generation Armor	- / -	- / -	45 / 68.270	60 / 73.134	- / -	60 / 73.134	60 / 74.090	55 / 70.368	55 / 76.504	60 / 85.856	1,276 / 2,712.868	1,611 / 3,161.090
<i>Subtotal: Recurring</i>	- / 126.480	- / 34.000	- / 68.270	- / 73.134	- / -	- / 73.134	- / 74.090	- / 70.368	- / 76.504	- / 85.856	- / 2,712.868	- / 3,321.570
Non-Recurring												
Installation Kits	821 / 526.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	821 / 526.800
<i>Subtotal: Non-Recurring</i>	- / 526.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 526.800
<i>Subtotal: Armor</i>	911 / 653.280	24 / 34.000	45 / 68.270	60 / 73.134	- / -	60 / 73.134	60 / 74.090	55 / 70.368	55 / 76.504	60 / 85.856	1,276 / 2,712.868	2,546 / 3,848.370
Modification Item 5 of 8: Program/Engineering Support												
A Kits												
Recurring												
System Technical Support	0 / 174.468	- / 149.429	- / 165.263	- / 156.284	- / -	- / 156.284	- / 155.733	- / 152.792	- / 150.949	- / 152.081	- / 1,597.363	- / 2,154.362
Government Program Support	0 / 141.203	- / 149.019	- / 131.774	- / 131.944	- / -	- / 131.944	- / 132.239	- / 132.533	- / 133.093	- / 134.011	- / 1,583.124	- / 1,868.940
Contractor Program Support	0 / 10.609	- / -	- / 12.217	- / 12.260	- / -	- / 12.260	- / 12.305	- / 12.351	- / 12.398	- / 12.446	- / 99.396	- / 123.982
Government Test Support	0 / 2.942	- / 2.969	- / 18.973	- / 17.858	- / -	- / 17.858	- / 18.435	- / 16.814	- / 11.918	- / 15.815	- / 192.824	- / 288.548
<i>Subtotal: Recurring</i>	- / 229.222	- / 101.417	- / 108.227	- / 108.346	- / -	- / 108.346	- / 108.712	- / 104.490	- / 98.358	- / 104.353	- / 3,472.707	- / 4,435.832
<i>Subtotal: Program/Engineering Support</i>	0 / 229.222	- / 101.417	- / 108.227	- / 108.346	- / -	- / 108.346	- / 108.712	- / 104.490	- / 98.358	- / 104.353	- / 3,472.707	- / 4,435.832
Modification Item 6 of 8: Power Pack Improvement & Integration Optimization												
A Kits												
Recurring												
System Technical Support	0 / 175.837	- / 9.658	- / 14.895	- / 14.303	- / -	- / 14.303	- / 11.147	- / 10.180	- / 9.194	- / 9.450	- / -	- / 154.664
<i>Subtotal: Recurring</i>	- / 175.837	- / 9.658	- / 14.895	- / 14.303	- / -	- / 14.303	- / 11.147	- / 10.180	- / 9.194	- / 9.450	- / -	- / 154.664
Non-Recurring												
Installation Kits	2,691 / 930.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,691 / 930.300
<i>Subtotal: Non-Recurring</i>	- / 930.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 930.300

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)					Modification Number / Title: GA0700 / Mods			
Models of Systems Affected: Abrams Family of Vehicles				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
<i>Subtotal: Power Pack Improvement & Integration Optimization</i>	2,691 / 1,006.137	- / 9.658	- / 14.895	- / 14.303	- / -	- / 14.303	- / 11.147	- / 10.180	- / 9.194	- / 9.450	- / -	2,691 / 1,084.964	
Modification Item 7 of 8: Training Devices													
A Kits													
Recurring													
Training Equipment Modifications	0 / 104.227	- / 10.463	- / 13.706	- / 19.613	- / -	- / 19.613	- / 29.925	- / 17.369	- / 19.284	- / 25.911	- / -	- / 240.498	
<i>Subtotal: Recurring</i>	- / 104.227	- / 10.463	- / 13.706	- / 19.613	- / -	- / 19.613	- / 29.925	- / 17.369	- / 19.284	- / 25.911	- / -	- / 240.498	
<i>Subtotal: Training Devices</i>	0 / 104.227	- / 10.463	- / 13.706	- / 19.613	- / -	- / 19.613	- / 29.925	- / 17.369	- / 19.284	- / 25.911	- / -	- / 240.498	
Modification Item 8 of 8: Facilities Optimization and Maintenance													
A Kits													
Recurring													
Production Line Optimization	- / -	- / 12.348	- / 40.298	- / 14.031	- / -	- / 14.031	- / 20.375	- / 22.848	- / 21.095	- / 19.455	- / -	- / 150.450	
<i>Subtotal: Recurring</i>	- / -	- / 12.348	- / 40.298	- / 14.031	- / -	- / 14.031	- / 20.375	- / 22.848	- / 21.095	- / 19.455	- / -	- / 150.450	
<i>Subtotal: Facilities Optimization and Maintenance</i>	- / -	- / 12.348	- / 40.298	- / 14.031	- / -	- / 14.031	- / 20.375	- / 22.848	- / 21.095	- / 19.455	- / -	- / 150.450	
<i>Subtotal: Procurement, All Modification Items</i>	3,602 / 5,199.685	429 / 237.023	450 / 430.939	390 / 436.390	- / -	390 / 436.390	516 / 475.226	491 / 446.948	491 / 451.655	516 / 493.708	2,552 / 15,385.873	9,437 / 23,557.447	
Installation													
Modification Item 3 of 8: Engineering Change Proposal (ECP) 1A	0 / 0.000	- / -	- / -	45 / 43.776	- / -	45 / 43.776	60 / 54.698	60 / 53.890	55 / 49.370	55 / 49.645	1,336 / 1,236.525	1,611 / 1,487.904	
<i>Subtotal: Installation</i>	0 / 0.000	- / -	- / -	45 / 43.776	- / -	45 / 43.776	60 / 54.698	60 / 53.890	55 / 49.370	55 / 49.645	1,336 / 1,236.525	1,611 / 1,487.904	
Total													
Total Cost (Procurement + Support + Installation)	5,199.685	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353	16,622.398	25,045.351	

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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Modification Item 1 of 8: Prior Year Closed Mods

Manufacturer Information

Manufacturer Name: x	Manufacturer Location: x
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Administrative Leadtime (<i>in Months</i>):	Production Leadtime (<i>in Months</i>):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): x	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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Modification Item 2 of 8: Abrams Field Upgrades

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Contractor Teams (Contractor dates will vary by item and cannot be predicted.)	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods

Modification Item 3 of 8: Engineering Change Proposal (ECP) 1A

Manufacturer Information

Manufacturer Name: General Dynamics and Anniston Army Depot	Manufacturer Location: ANAD, AL and JSMC Lima, OH
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates		Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021	Sep 2022

Installation Information

Method of Implementation: X

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	45 / 43.776	- / -	45 / 43.776	- / -	- / -	- / -	- / -	- / -	45 / 43.776
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	60 / 54.698	- / -	- / -	- / -	- / -	60 / 54.698
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	60 / 53.890	- / -	- / -	- / -	60 / 53.890
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 49.370	- / -	- / -	55 / 49.370
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 49.645	- / -	55 / 49.645
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 54.158	60 / 54.158
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,276 / 1,182.367	1,276 / 1,182.367
Total	0 / 0.000	- / -	- / -	45 / 43.776	- / -	45 / 43.776	60 / 54.698	60 / 53.890	55 / 49.370	55 / 49.645	1,336 / 1,236.525	1,611 / 1,487.904

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	9	12	12	12	15	15	15	15	15	15	15	15	10	15	15	15	10	15	15	15	1,336	1,611
Out	-	-	-	-	-	-	-	-	-	-	-	-	9	12	12	12	15	15	15	15	15	15	15	15	10	15	15	15	10	1,381	1,611

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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Modification Item 4 of 8: Armor

Manufacturer Information

Manufacturer Name: Department of Energy	Manufacturer Location: Various
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Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021
Delivery Dates		Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022

Installation Information

Method of Implementation (Organic): Armor packages will be applied during ECP 1A vehicle recapitalization.	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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Modification Item 5 of 8: Program/Engineering Support

Manufacturer Information

Manufacturer Name: x	Manufacturer Location: x
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Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 1
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020

Installation Information

Method of Implementation (Organic): x	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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Modification Item 6 of 8: Power Pack Improvement & Integration Optimization

Manufacturer Information

Manufacturer Name: Honeywell and Allison Transmission	Manufacturer Location: Phoenix, AZ and Indianapolis, IN
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Administrative Leadtime (<i>in Months</i>): 6	Production Leadtime (<i>in Months</i>): 1
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates	Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021

Installation Information

Method of Implementation (Organic): Contractor Support (Contractor dates will vary by item and cannot be predicted.)	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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Modification Item 7 of 8: Training Devices

Manufacturer Information

Manufacturer Name: PEO Simulation, Training, and Instrumentation	Manufacturer Location: Orlando, FL
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Contractor Support	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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Modification Item 8 of 8: Facilities Optimization and Maintenance

Manufacturer Information

Manufacturer Name: X	Manufacturer Location: Joint Systems Manufacturing Center Lima, OH
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Various (Contractor dates will vary by item and cannot be predicted)	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles

P-1 Line Item Number / Title:
GA0750 / Abrams Upgrade Program

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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>)	1,605	6	-	-	-	-	-	-	-	-	-	1,611
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8,929.107	120.000	-	-	-	-	-	-	-	-	-	9,049.107
Less PY Advance Procurement (<i>\$ in Millions</i>)	2,064.494	-	-	-	-	-	-	-	-	-	-	2,064.494
Net Procurement (P-1) (<i>\$ in Millions</i>)	6,864.613	120.000	-	-	-	-	-	-	-	-	-	6,984.613
Plus CY Advance Procurement (<i>\$ in Millions</i>)	2,064.494	-	-	-	-	-	-	-	-	-	-	2,064.494
Total Obligation Authority (<i>\$ in Millions</i>)	8,929.107	120.000	-	-	-	-	-	-	-	-	-	9,049.107

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	5,563.307	20,000.000	-	-	-	-	-	-	-	-	-	5,617.074

Description:

The purpose of this program is to upgrade M1/M1A1 tanks to the M1A2 System Enhancement Package (SEP) configuration in order to enhance tank survivability, the automotive power pack, computer systems, and night vision capabilities. The M1A2 SEP incorporates improved microprocessors; color flat panel displays and memory capacity; Soldier-Machine Interface (SMI); and a new operating system designed to run the Common Operating Environment (COE) software. Other improvements include frontal and side armor for enhanced crew survivability. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the M1A2 SEP tank include the improved thermal ranging capabilities of the Block 1 2nd Generation Forward Looking Infra-Red (FLIR) technology. The M1A2 SEP is also equipped with the Total Integrated Engine Revitalization (TIGER) engine and upgraded transmission for improved reliability and durability. The Abrams Upgrade Program will continue to be utilized to modify and upgrade the Abrams M1A2SEP v2 tank to avoid a break in production and maintain an engineering production and depot maintenance capability for heavy combat vehicle manufacturing, transmission manufacturing capability, and FLIR manufacturing to support the industrial base. Efforts to develop leaner Abrams production processes and optimize facilities to facilitate lower manufacturing rates in the future will also be initiated. In FY15 PM Abrams implemented a limited pilot program to produce the next version M1A2 Sep v3 tank in lieu of producing additional M1A2 Sep v2 tanks.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	6	-	-	-	-	-	-	-	-
	Total Obligation Authority	120.000	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	6	-	-	-	-	-	-	-	-
	Total Obligation Authority	120.000	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 GA0750 / Abrams Upgrade Program

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203735A

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)					
P-5	GA0750 / Abrams Upgrade Program	P-5a, P-21	A	1,605 / 8,929.107	6 / 120.000	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			1,605 / 8,929.107	6 / 120.000	- / -	- / -	- / -	- / -

*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:
 There is no FY 2017 funding.

In accordance with Section 1815 of the FY2008 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: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program			Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program		
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)			1,605	6	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			8,929.107	120.000	-	-	-	-
Less PY Advance Procurement (\$ in Millions)			2,064.494	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			6,864.613	120.000	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)			2,064.494	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			8,929.107	120.000	-	-	-	-
<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 Thousands)			5,563.307	20,000.000	-	-	-	-

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Basic Vehicle ^(†)	3,826.566	1,605	6,141.639	12,867.167	6	77.203	-	-	-	-	-	-	-	-	-	-	-	-
Government Furnished Equipment (GFE)	-	-	1,166.111	-	-	6.900	-	-	-	-	-	-	-	-	-	-	-	-
Pre-Modification Vehicle Teardown/ Refurb	-	-	-	-	-	1.900	-	-	-	-	-	-	-	-	-	-	-	-
TPF/New Equipment Training	-	-	196.427	-	-	0.690	-	-	-	-	-	-	-	-	-	-	-	-
Government Support	-	-	1,123.595	-	-	0.800	-	-	-	-	-	-	-	-	-	-	-	-
Transmissions	-	-	125.383	-	-	15.890	-	-	-	-	-	-	-	-	-	-	-	-
Forward Looking Infrared (FLIR)	-	-	85.952	-	-	11.856	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Base Mitigation Support	-	-	90.000	-	-	4.761	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>8,929.106</i>	-	-	<i>120.000</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>8,929.106</i>	-	-	<i>120.000</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	5,563.307	1,605	8,929.107	20,000.000	6	120.000	-	-	-	-	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	6	-	-	-	-
	Total Obligation Authority	120.000	-	-	-	-
Total:	Quantity	6	-	-	-	-
Secondary Distribution	Total Obligation Authority	120.000	-	-	-	-

(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: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program
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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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Basic Vehicle ^(†)		2013	GDLS / Sterling Heights, MI	SS / FFP	TACOM-Warren	Sep 2014	Apr 2015	12	5,134.000			
Basic Vehicle ^(†)		2014	GDLS / Sterling Heights, MI	SS / FFP	TACOM-Warren	Aug 2015	Aug 2016	6	5,410.000			
Basic Vehicle ^(†)		2015	GDLS / Sterling Heights, MI	SS / FFP	TACOM-Warren	May 2016	Feb 2017	6	12,867.167			

^(†) indicates the presence of a P-21

Remarks:

There is no 2017 funding.

GDLS-Prime Contractor, Sterling Heights, MI
Manufactured at JSMC, Lima, OH

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 **P-1 Line Item Number / Title:** GA0750 / Abrams Upgrade Program **Item Number / Title [DODIC]:** GA0750 / Abrams Upgrade Program

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016													Fiscal Year 2017												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
Basic Vehicle																																
Prior Years Deliveries: 1587																																
1		2013	ARMY	12	9	3	1	1	1																				-			
1		2014	ARMY	6	-	6	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1								-			
1		2014	FMS (†)	42	-	42	-	-	-	6	6	6	6	6	6	-	-	-	-	-	-								-			
1		2014	Total	48	-	48	-	-	-	6	6	6	6	6	6	1	1	1	1	1	1							1	-			
1		2015	ARMY	6	-	6									A	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program
		Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program

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	GDLS - Sterling Heights, MI	1	10	28	-	3	15	18	-	8	13	21

(‡) 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:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 30: Support Equipment & Facilities

P-1 Line Item Number / Title:
 GA0050 / Production Base Support (TCV-WTCV)

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>)	372.458	6.478	6.129	-	-	-	-	-	-	-	-	385.065
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	372.458	6.478	6.129	-	-	-	-	-	-	-	-	385.065
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	372.458	6.478	6.129	-	-	-	-	-	-	-	-	385.065

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program provides for the Provision of Industrial Facilities (PIF). Funds are used to establish, modernize, expand or replace facilities owned by the Army. It provides Production Support Equipment Replacement and Modernization to Government-owned equipment and real property used in the production of Weapons and Tracked Combat Vehicles. The program also provides funding for Layaway of Industrial Facilities (LIF) and for the redistribution of equipment no longer required for production of Army systems. This effort supports the Abrams RESET, Systems Enhancement Package (SEP) Programs and Spin-Out Framework. Funding is required for the preservation, Packing, Crating, Handling, and Transportation (PCH&T) of equipment excess to production, where such actions do not constitute substantial or complete shutdown or excessing of U.S. Army Tank-Automotive and Armaments Command (TACOM) production equipment. This program also funds projects to prevent unnecessary deterioration, perform maintenance, cover storage expenses of idle items of Government-owned equipment, and unplanned repairs to active equipment as situations arise.

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 30: Support Equipment & Facilities **P-1 Line Item Number / Title:** GA0050 / Production Base Support (TCV-WTCV)

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	GA2001 / PIF1 OMNIBUS(TCV-WTCV)			- / 372.458	- / 6.478	- / 6.129	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 372.458	- / 6.478	- / 6.129	- / -	- / -	- / -

*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:
There is no FY 2017 funding.

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 30 **P-1 Line Item Number / Title:** GA0050 / Production Base Support (TCV-WTCV) **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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
PIF1 OMNIBUS(TCV-WTCV)																				
GA2001 / PIF1 OMNIBUS(TCV-WTCV)			-	-	372.458	-	-	6.478	-	-	6.129	-	-	-	-	-	-	-	-	-
Subtotal: PIF1 OMNIBUS(TCV-WTCV)			-	-	372.458	-	-	6.478	-	-	6.129	-	-	-	-	-	-	-	-	-
Total			-	-	372.458	-	-	6.478	-	-	6.129	-	-	-	-	-	-	-	-	-

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: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G16101 / Integrated Air Burst Weapon System Family
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	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>)	0.780	-	-	9.764	-	9.764	14.852	24.930	32.158	25.798	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.780	-	-	9.764	-	9.764	14.852	24.930	32.158	25.798	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.780	-	-	9.764	-	9.764	14.852	24.930	32.158	25.798	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	92.990	-	92.990	-	-	-	-	Continuing	Continuing

Description:

The Maneuver Center of Excellence (MCoE), Ft Benning, GA (User Representative) identifies the XM25 as their number one materiel solution to mitigate a critical capability gap Counter Defilade Target Engagement (CDTE) for our Soldiers in combat (defeating defilade targets from 35-500m). The XM25 fires 25mm high-explosive airburst (HEAB) munitions. The XM25 comes with a target acquisition/fire control that integrates thermal capability with direct-view optics, laser rangefinder, environmental sensors, fuze setter, ballistic computer, and internal display. The XM25 has a 500-meter point target range and a 800-meter area target range capable of defeating defilade (hidden) targets.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	9.764	-	9.764	7.872	13.213	17.365
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	6.980	11.717	13.185	10.319
AR	Quantity	-	-	-	-	-	-	31	-
	Total Obligation Authority	-	-	-	-	-	-	1.608	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	31	-
	Total Obligation Authority	-	-	9.764	-	9.764	14.852	24.930	32.158

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G16101 / Integrated Air Burst Weapon System Family
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	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)					
P-5	G16101 / Integrated Air Burst Weapon System Family	P-5a, P-21	B	- / 0.780	- / -	- / -	- / 9.764	- / -	- / 9.764
P-40	Total Gross/Weapon System Cost			- / 0.780	- / -	- / -	- / 9.764	- / -	- / 9.764

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

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

Justification:
 FY2017 Base procurement dollars in the amount of \$9.764 million supports the Active Army by procuring 105 Low Rate Initial Production (LRIP) quantities under Type Classification Limited Procurement (TC-LP), to provide the Soldier with a leap-ahead technology to engage defilade targets with lethal precision. The XM25 provides the Infantry Soldier with a leap-ahead overmatch capability to defeat targets protected from observation and direct fire by natural and/or manmade cover such as terrain depressions, rock formations, foxholes, vehicles, walls, buildings and battlefield rubble. The XM25 dramatically increases lethality, range, and capability through the use of 25mm ammunition.

The XM25 is a new start in FY 2017

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: 2033A / 02 / 10	P-1 Line Item Number / Title: G16101 / Integrated Air Burst Weapon System Family	Item Number / Title [DODIC]: G16101 / Integrated Air Burst Weapon System Family

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)	0.780	-	-	9.764	-	9.764
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.780	-	-	9.764	-	9.764
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.780	-	-	9.764	-	9.764

(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 Thousands)	-	-	-	92.990	-	92.990

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
XM25 & TA/FC Mfg & Sys Integration ^(†)	-	-	-	-	-	-	-	-	-	41.257	105	4.332	-	-	-	41.257	105	4.332
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.332	-	-	-	-	-	4.332
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.332	-	-	-	-	-	4.332
Package Fielding Cost																		
Recurring Cost																		
Total Package Fielding (TPF)	-	-	-	-	-	-	-	-	-	-	-	0.325	-	-	-	-	-	0.325
New Equipment Training (NET)	-	-	-	-	-	-	-	-	-	-	-	0.325	-	-	-	-	-	0.325
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.650
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.650
Logistics Cost																		
Recurring Cost																		
Integrated Logistics Support (ILS)	-	-	-	-	-	-	-	-	-	-	-	0.235	-	-	-	-	-	0.235
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.235	-	-	-	-	-	0.235
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.235	-	-	-	-	-	0.235
Support Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: G16101 / Integrated Air Burst Weapon System Family	Item Number / Title [DODIC]: G16101 / Integrated Air Burst Weapon System Family
ID Code (A=Service Ready, B=Not Service Ready) : B		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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Engineering Support in Production (ESIP)	-	-	-	-	-	-	-	-	-	-	-	0.675	-	-	-	-	-	0.675
Engineering Changes & System Eng	-	-	-	-	-	-	-	-	-	-	-	2.002	-	-	-	-	-	2.002
System Test & Evaluation	-	-	-	-	-	-	-	-	-	-	-	1.320	-	-	-	-	-	1.320
First Article Testing (FAT)	-	-	-	-	-	-	-	-	-	-	-	0.125	-	-	-	-	-	0.125
Program Management	-	-	0.780	-	-	-	-	-	-	-	-	0.425	-	-	-	-	-	0.425
<i>Subtotal: Support Cost</i>	-	-	0.780	-	-	-	-	-	-	-	-	4.547	-	-	-	-	-	4.547
Gross/Weapon System Cost	-	-	0.780	-	-	-	-	-	-	92.990	-	9.764	-	-	-	92.990	-	9.764

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	9.764	-	9.764
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	9.764	-	9.764

(†) 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: 2033A / 02 / 10			P-1 Line Item Number / Title: G16101 / Integrated Air Burst Weapon System Family				Item Number / Title [DODIC]: G16101 / Integrated Air Burst Weapon System Family					
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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
XM25 & TA/FC Mfg & Sys Integration ^(†)		2017	Alliant Techsystems (ATK) / Plymouth	SS / FFP	ACC-APG, Aberdeen, MD	Dec 2016	Sep 2017	105	41.257	N		

^(†) 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: 2033A / 02 / 10				P-1 Line Item Number / Title: G16101 / Integrated Air Burst Weapon System Family				Item Number / Title [DODIC]: G16101 / Integrated Air Burst Weapon System Family				
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 (ATK) - Plymouth	8	129	400	3	3	9	12	-	-	-	-

"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: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G02200 / Mortar Systems
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	336.273	6.012	12.021	8.332	22.410	30.742	9.924	5.259	4.960	7.236	-	412.427
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	336.273	6.012	12.021	8.332	22.410	30.742	9.924	5.259	4.960	7.236	-	412.427
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	336.273	6.012	12.021	8.332	22.410	30.742	9.924	5.259	4.960	7.236	-	412.427

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	439.171	-	439.171	-	-	-	-	-	256.007

Description:

Mortar Systems includes the production of 60mm Light Weight M224/A1; 81mm Light Weight M252/A1; and 120mm M120A1/M121 Mortar Weapon Systems and associated equipments to include procurement of the M326 Mortar Stowage Kit and M1101 trailer that are used with the M120A1 120mm towed mortar system. The Mortar Stowage Kit system enables rapid emplacement and displacement of the M120A1 from the M1101 Trailer.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	6.012	10.521	8.332	22.410	30.742	9.924	5.259	4.960	7.236
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	1.500	-	-	-	-	-	-	-
Total: Secondary Distribution	-	-	-	-	-	-	-	-	-
Total Obligation Authority	6.012	12.021	8.332	22.410	30.742	9.924	5.259	4.960	7.236

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles **P-1 Line Item Number / Title:**
 G02200 / Mortar Systems

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

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

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G02202 / Mtr Wpn Sys	P-5a, P-21	A	- / 336.273	- / 6.012	- / 12.021	- / 8.332	- / 22.410	- / 30.742
P-40	Total Gross/Weapon System Cost			- / 336.273	- / 6.012	- / 12.021	- / 8.332	- / 22.410	- / 30.742

*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 \$8.332 million supports the procurement of 56 M224A1 (60mm) and 14 M120 (120mm) mortar systems and production support costs for the acquisition, engineering, warehousing/storage/staging, logistics, transportation, fielding and new equipment training of the mortar weapon systems. The system support funds are essential to fill shortages of US Army 60mm and 120mm mortar systems resulting from Army Reorganization of Infantry Brigade Combat Teams from 3 Battalions per Brigade to 4 Battalions per Brigade.

FY 2017 OCO procurement dollars in the amount of \$22.410 million supports the replacement of 160 M224A1 (60mm), 75 M252A1 (81mm), and 44 M120 (120mm) combat losses and washouts from combat operations from Theater Provided Equipment (TPE) accounts.

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: 2033A / 02 / 10						P-1 Line Item Number / Title: G02200 / Mortar Systems					Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys						
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)				336.273		6.012		12.021		8.332		22.410		30.742			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				336.273		6.012		12.021		8.332		22.410		30.742			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				336.273		6.012		12.021		8.332		22.410		30.742			
<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 Thousands)				-		-		-		110.186		-		110.186			

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
60mm Cannon Tubes	-	-	-	32.000	41	1.312	25.000	41	1.025	24.000	56	1.344	24.000	160	3.840	24.000	216	5.184
81mm Cannon Tubes	-	-	-	-	-	-	-	-	-	-	-	-	34.000	75	2.550	34.000	75	2.550
120mm Cannon Tubes	-	-	-	-	-	-	29.000	37	1.073	29.000	14	0.406	29.000	44	1.276	29.000	58	1.682
M1101 Trailers	-	-	-	-	-	-	13.000	48	0.624	-	-	-	-	-	-	-	-	-
60mm Mortar System ^(†)	-	-	-	-	-	-	42.000	41	1.722	40.000	56	2.240	40.000	160	6.400	40.000	216	8.640
81mm Mortar System ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	46.000	75	3.450	46.000	75	3.450
120mm Mortar System ^(†)	-	-	-	-	-	-	57.000	37	2.109	57.000	14	0.798	57.000	44	2.508	57.000	58	3.306
Production Engineering	-	-	336.273	-	-	2.214	-	-	2.350	-	-	1.516	-	-	-	-	-	1.516
Fielding	-	-	-	-	-	0.600	-	-	0.550	-	-	0.300	-	-	0.626	-	-	0.926
Proof and Acceptance	-	-	-	-	-	0.350	-	-	0.595	-	-	0.500	-	-	0.600	-	-	1.100
Government ILS	-	-	-	-	-	0.350	-	-	0.350	-	-	0.378	-	-	-	-	-	0.378
Staging / Transportaion	-	-	-	-	-	0.400	-	-	0.500	-	-	0.350	-	-	0.250	-	-	0.600
Operations and New Equipment Training	-	-	-	-	-	0.520	-	-	0.518	-	-	0.500	-	-	0.160	-	-	0.660
FAT	-	-	-	-	-	-	-	-	0.605	-	-	-	-	-	0.750	-	-	0.750
81mm Bipod Retrofit	-	-	-	-	-	0.175	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10						P-1 Line Item Number / Title: G02200 / Mortar Systems						Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys					
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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
60mm H&FM hard Stop Retrofit	-	-	-	-	-	0.091	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	336.273	-	-	6.012	-	-	12.021	-	-	8.332	-	-	22.410	-	-	30.742
<i>Subtotal: Flyaway Cost</i>	-	-	336.273	-	-	6.012	-	-	12.021	-	-	8.332	-	-	22.410	-	-	30.742
Gross/Weapon System Cost	-	-	336.273	-	-	6.012	-	-	12.021	110.186	-	8.332	-	-	22.410	110.186	-	30.742

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	6.012	10.521	8.332	22.410	30.742
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	1.500	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	6.012	12.021	8.332	22.410	30.742

(†) 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: 2033A / 02 / 10	P-1 Line Item Number / Title: G02200 / Mortar Systems	Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
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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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
60mm Mortar System ^(†)		2016	TBS2 / TBD2	C / FP	Picatinny Arsenal, NJ	Jun 2016	Oct 2017	41	42.000	Y		
60mm Mortar System ^(†)		2017	TBS2 / TBD2	C / FP	Picatinny Arsenal, NJ	Mar 2017	Mar 2018	216	40.000	Y		
81mm Mortar System ^(†)	✓	2017	TBS2 / TBD2	C / FP	Picatinny Arsenal, NJ	Mar 2017	Mar 2018	75	46.000	Y		
120mm Mortar System ^(†)		2016	TBS2 / TBD2	C / FP	Picatinny Arsenal, NJ	Jun 2016	Oct 2017	37	57.000	Y		
120mm Mortar System ^(†)		2017	TBS2 / TBD2	C / FP	Picatinny Arsenal, NJ	Mar 2017	Mar 2018	58	57.000	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: 2033A / 02 / 10	P-1 Line Item Number / Title: G02200 / Mortar Systems	Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
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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
60mm Mortar System																															
	1	2016	ARMY	41	-	41																								41	
	1	2017	ARMY	216	-	216																								216	
81mm Mortar System																															
✓	2	2017	ARMY	75	-	75																								75	
120mm Mortar System																															
	3	2016	ARMY	37	-	37																								37	
	3	2017	ARMY	58	-	58																								58	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 02 / 10	P-1 Line Item Number / Title: G02200 / Mortar Systems	Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
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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
60mm Mortar System																															
	1	2016	ARMY	41	-	41	20	21																					-		
	1	2017	ARMY	216	-	216	-	-	-	-	-	30	31	31	31	31	31	31											-		
81mm Mortar System																															
✓	2	2017	ARMY	75	-	75	-	-	-	-	-	10	10	11	11	11	11	11											-		
120mm Mortar System																															
	3	2016	ARMY	37	-	37	20	17																					-		
	3	2017	ARMY	58	-	58	-	-	-	-	-	7	8	8	8	9	9	9											-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 02 / 10	P-1 Line Item Number / Title: G02200 / Mortar Systems	Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
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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	TBS2 - TBD2	35	60	100	15	9	16	25	3	6	12	18
2	TBS2 - TBD2	35	60	100	15	9	16	25	3	6	12	18
3	TBS2 - TBD2	35	60	100	15	9	16	25	3	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: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	183.719	27.892	26.294	3.062	-	3.062	18.578	20.324	19.866	19.848	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	183.719	27.892	26.294	3.062	-	3.062	18.578	20.324	19.866	19.848	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	183.719	27.892	26.294	3.062	-	3.062	18.578	20.324	19.866	19.848	Continuing	Continuing

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

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

Description:

The M320 Grenade Launcher Module (GLM) is a 40mm low-velocity grenade launching weapon system that is a direct replacement to all M203 series of grenade launchers on M16 Rifles and M4 Carbines. The M320 GLM is a modular system that mounts under the barrel of the rifle or carbine. This weapon can also be used in the stand-alone configuration. The M320 GLM has an integrated leaf sight and some improved safety features. This weapon also has a side-loading unrestricted breech that permits the firing of longer 40mm low-velocity projectiles (NATO standard and non-standard). The M320 GLM is more reliable and safer because of the use of a more modern double-action trigger/firing system. The new pistol grip design eliminates the need to use the magazine as a hand grip. The latest innovations in lightweight material composites improve durability. Procurement of hand-held Laser Range Finder (LRF) and Grenadier Sighting System (GSS) are delivered as system components, one each per system.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	21.392	17.523	3.062	-	3.062	18.578	20.324	19.866
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.870	5.472	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.630	3.299	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.892	26.294	3.062	-	3.062	18.578	20.324	19.866

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	G01501 / XM320 Grenade Launcher Module (GLM)	P-5a, P-21	A	- / 183.719	- / 27.892	- / 26.294	- / 3.062	- / -	- / 3.062
P-40	Total Gross/Weapon System Cost			- / 183.719	- / 27.892	- / 26.294	- / 3.062	- / -	- / 3.062

*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 \$3.062 million supports the fielding, integrated logistics support, program management, System engineering and new equipment training. The M320 GLM system provides deploying units an improved capability over the M203 grenade launcher and enables the Warfighter to more accurately engage the enemy in both daylight and darkness. The M320 is a safer, more reliable grenade launcher that reduces aiming error and increases first-round hit probability. The M320 GLM 40mm ammunition is loaded from the side thus providing easier access and permitting use of a wider range of ammunition as compared to the M203, originally fielded beginning in the mid 1970s.

The FY 2017 funding request was reduced by \$8.331 million to account for the availability of prior year execution balances.

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: 2033A / 02 / 10		P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)
		Item Number / Title [DODIC]: G01501 / XM320 Grenade Launcher Module (GLM)

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)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	183.719	27.892	26.294	3.062	-	3.062
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	183.719	27.892	26.294	3.062	-	3.062
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	183.719	27.892	26.294	3.062	-	3.062

(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 Thousands)	-	-	-	-	-	-

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
M320A1 Grenade Launcher (GL) ^(†)	38.955	3,670	142.966	2.093	8,115	16.983	2.146	8,297	17.802	-	-	-	-	-	-	-	-	-
M320A1 First Article	-	-	-	-	-	0.608	-	-	-	-	-	-	-	-	-	-	-	-
Laser Range Finder (LRF) ^(†)	0.972	12,844	12.483	0.574	8,115	4.658	0.457	8,297	3.789	-	-	-	-	-	-	-	-	-
Tool Set/ASL	-	-	0.902	0.484	448	0.217	0.492	478	0.235	-	-	-	-	-	-	-	-	-
Arms Racks	-	-	2.413	1.196	448	0.536	1.034	580	0.600	-	-	-	-	-	-	-	-	-
RIA Program Management Spt	-	-	-	-	-	0.420	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>158.764</i>	-	-	<i>23.423</i>	-	-	<i>22.432</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>158.764</i>	-	-	<i>23.423</i>	-	-	<i>22.432</i>	-	-	-	-	-	-	-	-	-
Package Fielding Cost																		
Recurring Cost																		
Total Package Fielding (TPF)	-	-	3.199	-	-	0.310	-	-	0.315	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Recurring Cost</i>	-	-	<i>3.199</i>	-	-	<i>0.310</i>	-	-	<i>0.315</i>	-	-	<i>0.300</i>	-	-	-	-	-	<i>0.300</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>3.199</i>	-	-	<i>0.310</i>	-	-	<i>0.315</i>	-	-	<i>0.300</i>	-	-	-	-	-	<i>0.300</i>
Logistics Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)	Item Number / Title [DODIC]: G01501 / XM320 Grenade Launcher Module (GLM)
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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Integrated Logistics Support (ILS)	-	-	1.777	-	-	0.145	-	-	0.148	-	-	0.050	-	-	-	-	-	0.050
<i>Subtotal: Recurring Cost</i>	-	-	<i>1.777</i>	-	-	<i>0.145</i>	-	-	<i>0.148</i>	-	-	<i>0.050</i>	-	-	<i>-</i>	-	-	<i>0.050</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>1.777</i>	-	-	<i>0.145</i>	-	-	<i>0.148</i>	-	-	<i>0.050</i>	-	-	<i>-</i>	-	-	<i>0.050</i>
Support - Program Management Cost																		
Government Management	-	-	1.039	-	-	1.988	-	-	1.950	-	-	1.962	-	-	-	-	-	1.962
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>1.039</i>	-	-	<i>1.988</i>	-	-	<i>1.950</i>	-	-	<i>1.962</i>	-	-	<i>-</i>	-	-	<i>1.962</i>
Support - System Engineering Cost																		
System Engineering	-	-	15.103	-	-	1.312	-	-	0.699	-	-	0.450	-	-	-	-	-	0.450
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>15.103</i>	-	-	<i>1.312</i>	-	-	<i>0.699</i>	-	-	<i>0.450</i>	-	-	<i>-</i>	-	-	<i>0.450</i>
Support - Training Cost																		
Equipment	-	-	3.836	-	-	0.714	-	-	0.750	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Support - Training Cost</i>	-	-	<i>3.836</i>	-	-	<i>0.714</i>	-	-	<i>0.750</i>	-	-	<i>0.300</i>	-	-	<i>-</i>	-	-	<i>0.300</i>
Gross/Weapon System Cost	-	-	183.719	-	-	27.892	-	-	26.294	-	-	3.062	-	-	-	-	-	3.062

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	21.392	17.523	3.062	-	3.062
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	4.870	5.472	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	1.630	3.299	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	27.892	26.294	3.062	-	3.062

(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: 2033A / 02 / 10			P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)				Item Number / Title [DODIC]: G01501 / XM320 Grenade Launcher Module (GLM)				

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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
M320A1 Grenade Launcher (GL) ^(†)		2014	Heckler & Koch Defense, Inc / Ashburn, VA	SS / FFP	ACC-Picatinny, Picatinny, NJ	May 2014	Nov 2014	2,804	1.822	Y		
M320A1 Grenade Launcher (GL) ^(†)		2014	Capco / Grand Junction, CO	C / FFP	ACC-Picatinny, Picatinny, NJ	Jul 2015	Jun 2016	866	2.168	Y		
M320A1 Grenade Launcher (GL) ^(†)		2015	Capco / Grand Junction, CO	C / FFP	ACC-Picatinny, Picatinny, NJ	Jul 2015	Jun 2016	8,115	2.093	Y		
M320A1 Grenade Launcher (GL) ^(†)		2016	Capco / Grand Junction, CO	C / FFP	ACC-Picatinny, Picatinny, NJ	Oct 2016	May 2017	8,297	2.146	Y		
Laser Range Finder (LRF)		2014	Bushnell Outdoor Products / Overland, KS	SS / FFP	DLA Troop Command, Phila., PA	May 2014	Nov 2014	12,844	0.449	Y		
Laser Range Finder (LRF)		2015	Bushnell Outdoor Products / Overland, KS	SS / FFP	DLA Troop Support, Phila., PA	Aug 2015	Feb 2016	8,115	0.574	Y		
Laser Range Finder (LRF)		2016	Bushnell Outdoor Products / Overland, KS	SS / FFP	DLA Troop Support, Phila., PA	Apr 2016	Oct 2016	8,297	0.457	Y		

^(†) indicates the presence of a P-21

Remarks:
Grenadier Sighting System (GSS) scheduled to start production in FY18.

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Exhibit P-21, Production Schedule: PB 2017 Army				Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10				P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)				Item Number / Title [DODIC]: G01501 / XM320 Grenade Launcher Module (GLM)			

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	
M320A1 Grenade Launcher (GL)																																
	1	2014	ARMY	2,804	2,804	-																							-			
	2	2014	ARMY	866	-	866	-	-	-	-	-	-	-	-	-	150	160	185	188	183										-		
	2	2015	ARMY	8,115	-	8,115	-	-	-	-	-	-	-	-	200	300	400	500	600	800	900	1,030	1,100	1,085	1,200					-		
	2	2016	ARMY	8,297	-	8,297														A	-	-	-	-	-	-	1,230	1,267	1,300	1,400	1,500	1,600
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 02 / 10		P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)
		Item Number / Title [DODIC]: G01501 / XM320 Grenade Launcher Module (GLM)

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	Heckler & Koch Defense, Inc - Ashburn, VA	300	750	1,500	3	16	3	19	3	7	7	14
2	Capco - Grand Junction, CO	800	1,200	1,800	6	21	11	32	6	13	7	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: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	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>)	-	-	-	0.992	-	0.992	9.488	8.472	6.396	11.808	-	37.156
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	0.992	-	0.992	9.488	8.472	6.396	11.808	-	37.156
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	0.992	-	0.992	9.488	8.472	6.396	11.808	-	37.156

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	15.030	-	15.030	-	-	-	-	-	23.064

Description:

The Compact Semi-Automated Sniper System (CSASS) is a compact and lighter weight 7.62 Semi-Automatic Sniper System (SASS) with a shorter barrel, collapsible buttstock, new suppressor, new optic and improved ergonomics. The CSASS is a product improved version of the M110 SASS, provides a more full-spectrum and versatile weapon to sniper teams than the current M110 SASS, will improve accuracy, reliability, and longevity with no sacrifices in performance, and will lighten the soldier's load. The CSASS will replace all fielded M110 SASS.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	0.992	-	0.992	6.642	5.083	3.718	11.583
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	-	-	-	2.846	3.389	2.558	0.225
AR									
Quantity	-	-	-	-	-	-	-	-	8
Total Obligation Authority	-	-	-	-	-	-	-	0.120	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	8
Total Obligation Authority	-	-	0.992	-	0.992	9.488	8.472	6.396	11.808

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles **P-1 Line Item Number / Title:** G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604601A **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	G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM		B	- / -	- / -	- / -	- / 0.992	- / -	- / 0.992
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 0.992	- / -	- / 0.992

*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 \$0.992 million supports the Active Army through procurement of sixty-six (66) Compact Semi-Automatic Sniper Systems (CSASS). CSASS is the product improved version of the M110 Semi-Automatic Sniper System (SASS) and provides a more full-spectrum and versatile sniper system that advances ergonomics, survivability, capability, and portability while improving accuracy, reliability, and optics performance. CSASS is a new start in FY 2017.

In accordance with Section 1815 of the FY2008 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.

AAO: 3,329

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		P-1 Line Item Number / Title: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM
		Item Number / Title [DODIC]: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM

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)	-	-	-	0.992	-	0.992
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	0.992	-	0.992
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	0.992	-	0.992

(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 Thousands)	-	-	-	15.030	-	15.030

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware	-	-	-	-	-	-	-	-	-	7.500	66	0.495	-	-	-	7.500	66	0.495
Program Management	-	-	-	-	-	-	-	-	-	-	-	0.165	-	-	-	-	-	0.165
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	0.232	-	-	-	-	-	0.232
Integrated Logistics Support (ILS)	-	-	-	-	-	-	-	-	-	-	-	0.025	-	-	-	-	-	0.025
Total Package Fielding (TPF)	-	-	-	-	-	-	-	-	-	-	-	0.025	-	-	-	-	-	0.025
New Equipment Training (NET)	-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.992	-	-	-	-	-	0.992
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.992	-	-	-	-	-	0.992
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	15.030	-	0.992	-	-	-	15.030	-	0.992

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.992	-	0.992
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		P-1 Line Item Number / Title: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM		Item Number / Title [DODIC]: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM		
ID Code (A=Service Ready, B=Not Service Ready) : B			MDAP/MAIS Code:			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	-	-	0.992	-	0.992

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G13501 / Carbine
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	40.455	20.616	31.260	40.493	-	40.493	40.123	40.339	31.538	10.101	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	40.455	20.616	31.260	40.493	-	40.493	40.123	40.339	31.538	10.101	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	40.455	20.616	31.260	40.493	-	40.493	40.123	40.339	31.538	10.101	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	0.758	-	0.758	-	-	-	-	Continuing	Continuing

Description:

This funding is used to procure M4A1 Carbines for the Army. The M4A1 Carbines are 5.56mm, gas operated, air-cooled weapons designed for lightness, speed, mobility and firepower. The M4A1 Carbine is a more compact weapon than the M16 rifle series since it uses a shorter barrel and collapsible stock. The M4A1 Carbine has a (safe/semi-automatic/full automatic) trigger group, with a heavier barrel thickness to support increased sustained rates of fire, and an ambidextrous fire control selector. The M4A1 Carbine also includes a combat optic, back-up iron sight, and the adapter rail system to attach accessories and components. In accordance with the 17 JAN 2014 DA Memorandum, the M4A1 is the new standard army carbine with a new Army Acquisition objective (AAO) of 820,655.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.225	14.934	3.546	-	3.546	2.719	0.469	0.429
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.391	10.665	21.655	-	21.655	20.293	19.496	17.109
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.661	15.292	-	15.292	17.111	20.374	14.000
Total: Secondary Distribution	Quantity	-							
	Total Obligation Authority	20.616	31.260	40.493	-	40.493	40.123	40.339	31.538

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles **P-1 Line Item Number / Title:**
 G13501 / Carbine

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)					
P-5	G13503 / M4A1 CARBINE	P-5a, P-21	A	- / 40.455	- / 20.616	- / 31.260	- / 40.493	- / -	- / 40.493
P-40	Total Gross/Weapon System Cost			- / 40.455	- / 20.616	- / 31.260	- / 40.493	- / -	- / 40.493

*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 \$40.493 million supports by purchasing 53,441 M4A1 Carbines with a backup iron sight, and adapter rail system. The M4A1 Carbine is produced with a heavier barrel to accommodate and sustain a higher rate of fire using the full automatic mode of fire and an ambidextrous selector. The purchase of the carbines enhances current capability allowing the Soldier to engage targets in full automatic mode of fire at a higher sustained rate of fire as compared to the M4 Carbine.

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: 2033A / 02 / 10						P-1 Line Item Number / Title: G13501 / Carbine					Item Number / Title [DODIC]: G13503 / M4A1 CARBINE							
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)				40.455		20.616			31.260			40.493			-		40.493	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				40.455		20.616			31.260			40.493			-		40.493	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Total Obligation Authority (\$ in Millions)				40.455		20.616			31.260			40.493			-		40.493	
<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 Thousands)				-		-			-			0.758			-		0.758	

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. M4A1 Carbine ^(†)	0.719	52,964	38.069	0.644	22,253	14.332	0.657	38,023	24.976	0.666	53,441	35.605	-	-	-	0.666	53,441	35.605
2. Colt's Royalty payment	-	-	0.335	-	-	0.158	-	-	0.354	-	-	0.946	-	-	-	-	-	0.946
3. M4A1 Rebaseline Test	-	-	-	-	-	1.820	-	-	1.200	-	-	-	-	-	-	-	-	-
4. M4A1 First Article Test	-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-	-	-	-
5. RIA Workload Initiative	-	-	-	-	-	1.101	-	-	-	-	-	-	-	-	-	-	-	-
6. M4A1 Technical Manuals	-	-	-	-	-	0.021	-	-	0.140	-	-	0.200	-	-	-	-	-	0.200
<i>Subtotal: Recurring Cost</i>	-	-	38.416	-	-	17.456	-	-	26.675	-	-	36.738	-	-	-	-	-	36.738
<i>Subtotal: Flyaway Cost</i>	-	-	38.416	-	-	17.456	-	-	26.675	-	-	36.738	-	-	-	-	-	36.738
Package Fielding Cost																		
Recurring Cost																		
7. Total Package Fielding (TPF)	-	-	0.403	-	-	0.290	-	-	0.596	-	-	0.605	-	-	-	-	-	0.605
<i>Subtotal: Recurring Cost</i>	-	-	0.403	-	-	0.290	-	-	0.596	-	-	0.605	-	-	-	-	-	0.605
Non Recurring Cost																		
8. Integrated Logistics Support (ILS)	-	-	0.197	-	-	0.174	-	-	0.150	-	-	0.155	-	-	-	-	-	0.155

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10						P-1 Line Item Number / Title: G13501 / Carbine						Item Number / Title [DODIC]: G13503 / M4A1 CARBINE					
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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Non Recurring Cost</i>	-	-	0.197	-	-	0.174	-	-	0.150	-	-	0.155	-	-	-	-	-	0.155
<i>Subtotal: Package Fielding Cost</i>	-	-	0.600	-	-	0.464	-	-	0.746	-	-	0.760	-	-	-	-	-	0.760
Support - Program Management Cost																		
Government Management	-	-	1.026	-	-	1.255	-	-	2.384	-	-	1.526	-	-	-	-	-	1.526
<i>Subtotal: Support - Program Management Cost</i>	-	-	1.026	-	-	1.255	-	-	2.384	-	-	1.526	-	-	-	-	-	1.526
Support - System Engineering Cost																		
System Engineering	-	-	0.413	-	-	1.440	-	-	1.460	-	-	1.470	-	-	-	-	-	1.470
<i>Subtotal: Support - System Engineering Cost</i>	-	-	0.413	-	-	1.440	-	-	1.460	-	-	1.470	-	-	-	-	-	1.470
Gross/Weapon System Cost	-	-	40.455	-	-	20.616	-	-	31.260	0.758	-	40.493	-	-	-	0.758	-	40.493

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	14.225	14.934	3.546	-	3.546
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	6.391	10.665	21.655	-	21.655
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	5.661	15.292	-	15.292
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	20.616	31.260	40.493	-	40.493

(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: 2033A / 02 / 10	P-1 Line Item Number / Title: G13501 / Carbine	Item Number / Title [DODIC]: G13503 / M4A1 CARBINE
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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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1. M4A1 Carbine ^(†)		2013	FN Manufacturing / Columbia	C / FFP	ACC-TACOM, Warren, MI	May 2014	Mar 2015	24,000	0.698	Y		
1. M4A1 Carbine ^(†)		2014	FN Manufacturing / Columbia	C / FFP	ACC-TACOM, Warren, MI	May 2014	Oct 2015	28,964	0.641	Y		
1. M4A1 Carbine ^(†)		2015	FN Manufacturing / Columbia	C / FFP	ACC-TACOM, Warren, MI	Nov 2014	Jul 2016	17,953	0.663	Y		
1. M4A1 Carbine ^(†)		2015	Colt / West Hartford	C / FFP	ACC-Picatinny, Picatinny, NJ	Sep 2015	Sep 2016	4,300	0.663	Y		
1. M4A1 Carbine ^(†)		2016	FN Manufacturing / Columbia	C / FFP	ACC Picatinny, Picatinny, NJ	Mar 2016	Mar 2017	19,011	0.657	Y		
1. M4A1 Carbine ^(†)		2016	Colt / West Hartford	C / FFP	ACC Picatinny, Picatinny, NJ	Mar 2016	Dec 2016	19,012	0.657	Y		
1. M4A1 Carbine ^(†)		2017	FN Manufacturing / Columbia	C / FFP	ACC Picatinny, Picatinny, NJ	Dec 2016	Sep 2017	26,720	0.666	Y		
1. M4A1 Carbine ^(†)		2017	Colt / West Hartford	C / FFP	ACC Picatinny, Picatinny, NJ	Dec 2016	Sep 2017	26,721	0.666	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: 2033A / 02 / 10	P-1 Line Item Number / Title: G13501 / Carbine	Item Number / Title [DODIC]: G13503 / M4A1 CARBINE
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2014												Fiscal Year 2015												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1. M4A1 Carbine																															
	1	2013	ARMY	24.000	-	24.000																							4.800		
	1	2013	NAVY (+)	2.653	-	2.653																									
	1	2013	AF (+)	7.048	-	7.048																									
	1	2013	Total	33.701	-	33.701																							4.800		
	1	2014	ARMY	28.964	-	28.964																							28.964		
	1	2014	MC (+)	1.789	-	1.789																							1.789		
	1	2014	AF (+)	4.597	-	4.597																							4.597		
	1	2014	Total	35.350	-	35.350																							35.350		
	1	2015	ARMY	17.953	-	17.953																							17.953		
	1	2015	NAVY (+)	1.000	-	1.000																							1.000		
	1	2015	MC (+)	.400	-	.400																							.400		
	1	2015	AF (+)	.786	-	.786																							.786		
	1	2015	Total	20.139	-	20.139																							20.139		
	2	2015	ARMY	4.300	-	4.300																							4.300		
	1	2016	ARMY	19.011	-	19.011																							19.011		
	2	2016	ARMY	19.012	-	19.012																							19.012		
	2	2016	NAVY (+)	.672	-	.672																							.672		
	2	2016	MC (+)	.800	-	.800																							.800		
	2	2016	AF (+)	.100	-	.100																							.100		
	2	2016	Total	20.584	-	20.584																							20.584		
	1	2017	ARMY	26.720	-	26.720																							26.720		
	2	2017	ARMY	26.721	-	26.721																							26.721		
	2	2017	NAVY (+)	.800	-	.800																							.800		
	2	2017	MC (+)	4.087	-	4.087																							4.087		
	2	2017	AF (+)	.200	-	.200																							.200		
	2	2017	Total	31.808	-	31.808																							31.808		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 2033A / 02 / 10 **P-1 Line Item Number / Title:** G13501 / Carbine **Item Number / Title [DODIC]:** G13503 / M4A1 CARBINE

Cost Elements <i>(Units in Thousands)</i>				Fiscal Year 2018														Fiscal Year 2019												BALANCE			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018														Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
1. M4A1 Carbine																																	
	1	2013	ARMY	24.000	24.000	-																							-				
	1	2013	NAVY (+)	2.653	2.653	-																							-				
	1	2013	AF (+)	7.048	7.048	-																							-				
	1	2013	Total	33.701	33.701	-																							-				
	1	2014	ARMY	28.964	28.964	-																							-				
	1	2014	MC (+)	1.789	1.789	-																							-				
	1	2014	AF (+)	4.597	4.597	-																							-				
	1	2014	Total	35.350	35.350	-																							-				
	1	2015	ARMY	17.953	17.953	-																							-				
	1	2015	NAVY (+)	1.000	1.000	-																							-				
	1	2015	MC (+)	.400	.400	-																							-				
	1	2015	AF (+)	.786	.786	-																							-				
	1	2015	Total	20.139	20.139	-																							-				
	2	2015	ARMY	4.300	4.300	-																							-				
	1	2016	ARMY	19.011	19.011	-																							-				
	2	2016	ARMY	19.012	19.012	-	-	-																					-				
	2	2016	NAVY (+)	.672	.672	-	-	-																					-				
	2	2016	MC (+)	.800	.150	.650	.300	.350																					-				
	2	2016	AF (+)	.100	.100	-	-	-																					-				
	2	2016	Total	20.584	19.934	.650	.300	.350																					-				
	1	2017	ARMY	26.720	2.420	24.300	2.400	2.450	2.425	2.425	2.425	2.430	2.435	2.430	2.430	2.450													-				
	2	2017	ARMY	26.721	2.331	24.390	2.450	2.450	2.425	2.425	2.425	2.430	2.435	2.450	2.450	2.450													-				
	2	2017	NAVY (+)	.800	-	.800	-	-	.400	.400	-	-	-	-	-	-													-				
	2	2017	MC (+)	4.087	-	4.087	-	-	-	.680	.680	.680	.680	.685	.682														-				
	2	2017	AF (+)	.200	-	.200	-	-	.100	.100	-	-	-	-	-														-				
	2	2017	Total	31.808	2.331	29.477	2.450	2.450	2.925	2.925	3.105	3.110	3.115	3.130	3.135	3.132												-					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: G13501 / Carbine	Item Number / Title [DODIC]: G13503 / M4A1 CARBINE
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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	FN Manufacturing - Columbia	1,000	4,000	8,000	6	20	10	30	6	12	12	24
2	Colt - West Hartford	1,000	6,000	12,000	6	3	9	12	6	3	9	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-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G04700 / Common Remotely Operated Weapons Station
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,248.945	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-	-	2,342.520
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,248.945	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-	-	2,342.520
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,248.945	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-	-	2,342.520

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The M153 Common Remotely Operated Weapon Station (CROWS) is an integrated system that provides the capability to remotely operate all standard U.S. Army machine guns (i.e., M2 Heavy Barrel Machine Guns, MK-19 Grenade Machine Guns, M240B/L Medium Machine Guns and M249 Squad Automatic Weapons) on a variety of vehicles from an Up-Armored High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) to a M1A2 Main Battle Tank. The CROWS system includes a three axis stabilized mount, a sensor suite with fire control software, and a vehicle integration kit. CROWS permits the gunner to manipulate the sight and weapon from under armor using a hand controller and a flat panel display. Missions can be carried out under conditions of varying visibility via the day camera or thermal camera. The laser range finder and three-axis stabilization allows for accurate fire on the move.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G04700 / Common Remotely Operated Weapons Station
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	G04700 / Common Remotely Operated Weapons Station	P-5a	A	- / 2,248.945	- / 14.149	- / 33.750	- / 25.164	- / -	- / 25.164
P-40	Total Gross/Weapon System Cost			- / 2,248.945	- / 14.149	- / 33.750	- / 25.164	- / -	- / 25.164

*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 \$25.164 million supports the Active Army by purchasing Platform Integration Kits, Appended Trainers and Diagnostic Kits to facilitate ongoing fielding of the M153 Common Remotely Operated Weapon Stations (CROWS). Funding also supports the purchase of spares and components required for ongoing fielding of CROWS systems, as well as conversion of M153A1 systems to the M153 configuration. The CROWS system enhances Soldier survivability while increasing lethality and situational awareness.

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: 2033A / 02 / 10	P-1 Line Item Number / Title: G04700 / Common Remotely Operated Weapons Station	Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station

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)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,248.945	14.149	33.750	25.164	-	25.164
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,248.945	14.149	33.750	25.164	-	25.164
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,248.945	14.149	33.750	25.164	-	25.164

(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 Thousands)	-	-	-	-	-	-

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CROWS system	-	-	1,705.786	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CROWS Post-Production Conversions ^(†)	-	-	7.728	19.685	254	5.000	20.000	600	12.000	20.000	500	10.000	-	-	-	20.000	500	10.000
Platform Integration Kits ^(†)	-	-	51.336	3.698	630	2.330	5.000	310	1.550	5.000	200	1.000	-	-	-	5.000	200	1.000
Appended Trainers ^(†)	-	-	4.998	10.000	80	0.800	10.000	350	3.500	10.000	50	0.500	-	-	-	10.000	50	0.500
Diagnostic Kits	-	-	4.125	55.000	20	1.100	46.000	10	0.460	40.000	15	0.600	-	-	-	40.000	15	0.600
Engineering Support	-	-	180.342	-	-	1.339	-	-	2.268	-	-	2.438	-	-	-	-	-	2.438
Program Management Support	-	-	18.035	-	-	0.635	-	-	1.200	-	-	1.150	-	-	-	-	-	1.150
Integrated Logistics Support	-	-	45.654	-	-	0.200	-	-	0.252	-	-	0.252	-	-	-	-	-	0.252
Total Package Fielding	-	-	64.055	-	-	2.235	-	-	4.390	-	-	2.200	-	-	-	-	-	2.200
Contractor Field Service Representatives	-	-	24.896	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
First Destination Transportation	-	-	3.979	-	-	0.010	-	-	0.030	-	-	0.020	-	-	-	-	-	0.020
Spares/Repair Parts	-	-	101.014	-	-	-	-	-	7.000	-	-	5.604	-	-	-	-	-	5.604

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: G04700 / Common Remotely Operated Weapons Station	Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station
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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
New Equipment Training	-	-	36.997	-	-	0.500	-	-	1.100	-	-	1.400	-	-	-	-	-	1.400
<i>Subtotal: Recurring Cost</i>	-	-	<i>2,248.945</i>	-	-	<i>14.149</i>	-	-	<i>33.750</i>	-	-	<i>25.164</i>	-	-	-	-	-	<i>25.164</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>2,248.945</i>	-	-	<i>14.149</i>	-	-	<i>33.750</i>	-	-	<i>25.164</i>	-	-	-	-	-	<i>25.164</i>
Gross/Weapon System Cost	-	-	2,248.945	-	-	14.149	-	-	33.750	-	-	25.164	-	-	-	-	-	25.164

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	14.149	33.750	25.164	-	25.164
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	14.149	33.750	25.164	-	25.164

(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: 2033A / 02 / 10	P-1 Line Item Number / Title: G04700 / Common Remotely Operated Weapons Station	Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station
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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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CROWS Post-Production Conversions		2015	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Apr 2015	Feb 2016	254	19.685	Y		
CROWS Post-Production Conversions		2016	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Apr 2016	Feb 2017	600	20.000	Y		
CROWS Post-Production Conversions		2017	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2017	Feb 2018	500	20.000	Y		
Platform Integration Kits		2015	Applied Resources Corp / Wharton, NJ	C / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2015	Sep 2015	315	3.698	Y		
Platform Integration Kits		2015	Choctaw Manufacturing Defense / Antlers, OK	C / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2015	Sep 2015	315	3.698	Y		
Platform Integration Kits		2016	Applied Resources Corp / Wharton, NJ	C / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2016	Sep 2016	155	5.000	Y		
Platform Integration Kits		2016	Choctaw Manufacturing Defense / Antlers, OK	C / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2016	Sep 2016	155	5.000	Y		
Platform Integration Kits		2017	Applied Resources Corp / Wharton, NJ	C / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2017	Sep 2017	100	5.000	Y		
Platform Integration Kits		2017	Choctaw Manufacturing Defense / Antlers, OK	C / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2017	Sep 2017	100	5.000	Y		
Appended Trainers		2015	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2015	Oct 2015	80	10.000	Y		
Appended Trainers		2016	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2016	Oct 2016	350	10.000	Y		
Appended Trainers		2017	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2017	Oct 2017	50	10.000	Y		

Remarks:
CROWS diagnostic kits are fabricated by US Government personnel at Tobyhanna Army Depot, PA.

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	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>)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MK-19 Mod 3 is a self-powered, air-cooled, 40mm automatic grenade machine gun capable of a firing rate of 325-375 rounds per minute. It is used to engage point targets up to 1,500 meters and provide suppressive fire at ranges up to 2,200 meters. Since the initial fielding of the MK-19, various system enhancements have been identified that further improve the system by increasing operational capabilities and improving reliability, readiness, maintainability, and safety. These improvements include a lightweight adjustable sight bracket; a weapon-sight bracket interface; improved firing pin sear with modified firing pin; an adjustable secondary drive lever; a Tactical Engagement Simulator (TES) to support Force-on-Force Training; and improved sighting systems that enhance accuracy of the system. The MK-19 is fielded with the MK93 mount. The weapon is mounted on select Stryker vehicles, High Mobility Multi-Purpose Wheeled Vehicles (HMMWVs), the M113 Armored Personnel Carrier family of vehicles, M88A1 Recovery Vehicle and Mine Resistant Ambush Protected (MRAP) vehicles. During static defensive operations it is ground employed utilizing the M3 or M205 Tripod Mount. The MK-19 Grenade Machine Gun (GMG) MOD 5 Kits consist of vertical cams, barrels, round positioning blocks, cocking cams, cocking levers, and improved mechanical sights. The Fire Control Unit (FCU) provides ability to acquire, identify and range targets and provides a means of applying laser pointer/designator, combat ID, optics, and systems communication on the MK19 GMG. The FCU will take advantage of future 40mm airbursting capability. The Mounted Machine Gun Optic (MMO) provides the Soldier increased accuracy and identification at range by equipping the Medium/Heavy Machine Gun including the MK19 MOD 3 GMG an optic with selectable magnification. The MMO also retains the capability of short range, transition fire. MK93 Improvement Kits will enhance hit performance during on the move engagement by dampening mount movement. MK93 Improvement Kits also help when firing extreme elevation and integration of new optics and fire control due to better stability.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.959	-	4.959	5.061	5.161	5.263
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.959	-	4.959	5.061	5.161	5.263

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh **P-1 Line Item Number / Title:** GB3000 / MK-19 Grenade Machine Gun MODS

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604601A **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-3a	GB3000 / Tripods (Increase Performance)			- / 36.854	- / -	- / -	- / 4.959	- / -	- / 4.959
P-40	Total Gross/Weapon System Cost			- / 36.854	- / -	- / -	- / 4.959	- / -	- / 4.959

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GB3000 / Tripods (Increase Performance)			- / 5.061	- / 5.161	- / 5.263	- / 14.985	- / -	- / 72.283
P-40	Total Gross/Weapon System Cost			- / 5.061	- / 5.161	- / 5.263	- / 14.985	- / -	- / 72.283

*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 \$4.959 million supports the Active Army by procuring 1,238 MK-19 Grenade Machine Gun MOD 5 Kits. The MK-19 Grenade Machine Gun (GMG) MOD 5 Kits provides the Soldier with vertical cams, barrels, round positioning blocks, cocking cams, cocking levers, and improved mechanical sights. The MOD 5 Kits will improve operational reliability, durability, and accuracy of the MK-19 GMG. MK19 is a new start in FY 2017.

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-3a, Individual Modification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS	Modification Number / Title: GB3000 / Tripods
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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>)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MK19 Grenade Machine Gun (GMG) MOD 5 Kits consist of vertical cams, barrels, round positioning blocks, cocking cams, cocking levers, and improved mechanical sights. The MOD 5 Kits will improve operational reliability, durability, and accuracy of the MK19 GMG. The Small Arms Fire Control - Crew Served (SAFC-CS) provides ability to acquire, identify and range targets and provides a means of applying laser pointer/designator, combat ID, optics, and systems communication on the MK19 GMG. The SAFC-CS will take advantage of future 40mm airbusting capability. The Mounted Machine Gun Optic (MMO) provides the Soldier increased accuracy and identification at range by equipping the Medium/Heavy Machine Gun including the MK19 MOD 3 GMG an optic with selectable magnification. The MMO also retains the capability of short range, transition fire. MK93 Improvement Kits will enhance hit performance during on the move engagement by dampening mount movement. MK93 Improvement Kits also help when firing extreme elevation and integration of new optics and fire control due to better stability.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS					Modification Number / Title: GB3000 / Tripods			
Models of Systems Affected: MK-19 Grenade Machine Gun & M2 50 Cal Machine Gun					Modification Type: Increase Performance					Related RDT&E PEs:			
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>					
Procurement													
Modification Item 1 of 6: Tactical Engagement Simulator (TES)													
B Kits													
Recurring													
TES Kits	1,568 / 29.086	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,568 / 29.086	
Engineering Support	0 / 3.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.200	
Integrated Logistical Support	0 / 0.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.850	
Fielding	0 / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.750	
Subtotal: Recurring	- / 33.886	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 33.886	
Subtotal: Tactical Engagement Simulator (TES)	1,568 / 33.886	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,568 / 33.886	
Modification Item 2 of 6: Tripods													
B Kits													
Recurring													
M3/M205 Tripod	666 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	666 / 2.000	
Engineering Support	0 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
Integrated Logistical Support	0 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	
Fielding	0 / 0.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.068	
Subtotal: Recurring	- / 2.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.368	
Subtotal: Tripods	666 / 2.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	666 / 2.368	
Modification Item 3 of 6: Mounts													
B Kits													
Recurring													
MK93 Mount	160 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 0.400	
Engineering, ILS, TPF Support	0 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
Subtotal: Recurring	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	
Subtotal: Mounts	160 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 0.600	
Modification Item 4 of 6: MK19 GMG MOD 5 Kits													
B Kits													
Recurring													
MK19 GMG MOD 5 Kits	- / -	- / -	- / -	1,238 / 2.103	- / -	1,238 / 2.103	961 / 1.680	952 / 1.715	269 / 0.500	3,147 / 5.980	- / -	6,567 / 11.978	
Engineering Support	- / -	- / -	- / -	- / 1.136	- / -	- / 1.136	- / 1.111	- / 1.074	- / 0.722	- / 0.685	- / -	- / 4.728	

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS					Modification Number / Title: GB3000 / Tripods			
Models of Systems Affected: MK-19 Grenade Machine Gun & M2 50 Cal Machine Gun				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Integrated Logistical Support	- / -	- / -	- / -	- / 0.150	- / -	- / 0.150	- / 0.100	- / 0.100	- / 0.100	- / 0.150	- / -	- / 0.600	
First Destination Transportation	- / -	- / -	- / -	- / 0.020	- / -	- / 0.020	- / 0.020	- / 0.020	- / 0.020	- / 0.020	- / -	- / 0.100	
Testing	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / 0.200	
Testing (First Article)	- / -	- / -	- / -	- / 0.800	- / -	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / 0.800	
Engineering Study	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / 0.500	
Fielding	- / -	- / -	- / -	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.050	- / 0.050	- / 0.050	- / -	- / 0.250	
Subtotal: Recurring	- / -	- / -	- / -	- / 4.959	- / -	- / 4.959	- / 2.961	- / 2.959	- / 1.392	- / 6.885	- / -	- / 19.156	
Subtotal: MK19 GMG MOD 5 Kits	- / -	- / -	- / -	1,238 / 4.959	- / -	1,238 / 4.959	961 / 2.961	952 / 2.959	269 / 1.392	3,147 / 6.885	- / -	6,567 / 19.156	
Modification Item 5 of 6: Mounted Machine Gun Optic (MMO)/SAFC - CS													
B Kits													
Recurring													
Mounted Machine Gun Optic (MMO)	- / -	- / -	- / -	- / -	- / -	- / -	515 / 0.830	722 / 1.532	750 / 1.636	3,316 / 7.430	- / -	5,303 / 11.428	
Engineering Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / -	- / 2.000	
Integrated Logistical Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.400	
First Destination Transportation	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.020	- / 0.020	- / 0.020	- / 0.020	- / -	- / 0.080	
Testing	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / 0.200	
Testing (First Article)	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / 0.100	
Engineering Study	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / 0.300	
Fielding	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	- / 0.050	- / 0.050	- / 0.050	- / -	- / 0.200	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.100	- / 2.202	- / 2.306	- / 8.100	- / -	- / 14.708	
Subtotal: Mounted Machine Gun Optic (MMO)/SAFC - CS	- / -	- / -	- / -	- / -	- / -	- / -	515 / 2.100	722 / 2.202	750 / 2.306	3,316 / 8.100	- / -	5,303 / 14.708	
Modification Item 6 of 6: MK93 Improvement Kits													
B Kits													
Recurring													
MK93 Improvement Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	835 / 1.215	- / -	- / -	835 / 1.215	
Engineering Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.350	- / -	- / -	- / 0.350	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.565	- / -	- / -	- / 1.565	
Subtotal: MK93 Improvement Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	835 / 1.565	- / -	- / -	835 / 1.565	
Subtotal: Procurement, All Modification Items	2,394 / 36.854	- / -	- / -	1,238 / 4.959	- / -	1,238 / 4.959	1,476 / 5.061	1,674 / 5.161	1,854 / 5.263	6,463 / 14.985	- / -	15,099 / 72.283	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS						Modification Number / Title: GB3000 / Tripods			
Models of Systems Affected: MK-19 Grenade Machine Gun & M2 50 Cal Machine Gun				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Total													
Total Cost (Procurement + Support + Installation)		36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283

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Exhibit P-3a, Individual Modification: PB 2017 Army					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS			Modification Number / Title: GB3000 / Tripods	
Modification Item 1 of 6: Tactical Engagement Simulator (TES)							
Manufacturer Information							
Manufacturer Name: NA				Manufacturer Location: NA			
Administrative Leadtime (<i>in Months</i>): 5				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2017 Army					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS			Modification Number / Title: GB3000 / Tripods	
<i>Modification Item 2 of 6:</i> Tripods							
Manufacturer Information							
Manufacturer Name: NA				Manufacturer Location: NA			
Administrative Leadtime (<i>in Months</i>): 22				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS	Modification Number / Title: GB3000 / Tripods
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Modification Item 3 of 6: Mounts

Manufacturer Information

Manufacturer Name: NA	Manufacturer Location: NA
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Administrative Leadtime (<i>in Months</i>): 5	Production Leadtime (<i>in Months</i>): 9
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Installed by Troops	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS	Modification Number / Title: GB3000 / Tripods
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Modification Item 4 of 6: MK19 GMG MOD 5 Kits

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 10
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Apr 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022

Installation Information

Method of Implementation (Organic): Installed by Troops	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS		Modification Number / Title: GB3000 / Tripods		
Modification Item 5 of 6: Mounted Machine Gun Optic (MMO)/SAFC - CS							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 10			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Jan 2019	Jan 2020	Jan 2021	Jan 2022
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS	Modification Number / Title: GB3000 / Tripods
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Modification Item 6 of 6: MK93 Improvement Kits

Manufacturer Information

Manufacturer Name: U.S Army ARDEC	Manufacturer Location: Picatinny, NJ
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 10
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Mar 2020	
Delivery Dates						Jan 2021	

Installation Information

Method of Implementation (Organic): Installed by Troops	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1700 / M777 Mods
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The LW155 (M777A2 howitzer) provides direct, reinforcing, and general artillery fire support to maneuver forces. The Army has fielded the M777A2 to their Stryker Brigade Combat Teams, Fires Brigades and the National Guard. The Army began fielding Infantry Brigade Combat Teams starting in FY14 and will continue through FY18. The Marine Corps has fielded to all active and reserve units. The M777A2 is capable of firing the 155MM Excalibur Precision-Guided munition, and the Precision Guidance Kit (PGK). It is a joint program between the Marine Corps and Army with additional Foreign Military Sales purchases from Canada and Australia. It is an excellent example of a successful joint service program with the Marine Corps. The M777A2 is seeing significant action in Afghanistan and has received very high marks for its performance. With the conclusion of the M777A2 US production in November 2013, the program has entered into the Sustainment Phase of its life cycle. Having now been in the field for almost 10 years, the howitzer is going through replacement of electronic components in its digital fire control system to maintain interoperability and fulfill Joint Operational Requirements Document (JORD) requirements that were deferred during development.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.018	6.042	7.109	-	7.109	2.553	2.651	1.910
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.148	4.028	4.804	-	4.804	1.000	1.322	1.291
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201

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

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

P-1 Line Item Number / Title:
GZ1700 / M777 Mods

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-3a	GZ1700 / Light Weight 155MM Towed Howitzer (Increase Performance)			- / 56.660	- / 18.166	- / 10.070	- / 11.913	- / -	- / 11.913
P-40	Total Gross/Weapon System Cost			- / 56.660	- / 18.166	- / 10.070	- / 11.913	- / -	- / 11.913

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GZ1700 / Light Weight 155MM Towed Howitzer (Increase Performance)			- / 3.553	- / 3.973	- / 3.201	- / 13.290	- / -	- / 120.826
P-40	Total Gross/Weapon System Cost			- / 3.553	- / 3.973	- / 3.201	- / 13.290	- / -	- / 120.826

*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 \$11.913 million continues procurement and integration of hardware and training products required to meet JORD requirements deferred during development due technical maturity and cost. Funding also supports modernization of Digital Fire Control System (DFCS) components required to ensure continued operability of weapon system. Integration and qualification efforts will commence to address obsolescence issues for the systems Inertial Navigation Unit (INU). The INU is a critical DFCS component that has been in the field since 2005 and is based on early 2000's technology. Funding will continue to support field retrofits of previously contracted Engineering Change Proposals for the Improved Power Conditioning Control Module (I-PCCM), Electronic Thermal Warning Device (ETWD), Hydraulic Power Assist Kit (HyPAK), Muzzle Velocity Sensor System (MVSS) and Primer Feed Mechanism (PFM) Components. The PFM and ETWD retrofits are critical to addressing current field restrictions for firing the Modular Artillery Charge System (MACS) at extended ranges. The DFCS system software will also be upgraded as part of these retrofits. The upgraded software requires additional operator training as it reflects significant changes to operator tactics and procedures. Priority will be to the units deploying then to those first fielded, utilizing reset and overhaul opportunities as appropriate. Funding will support composite fielding of the LW155 into the Infantry Brigade Combat Teams (IBCTs), an initiative to increase in operational force effectiveness and indirect precision fire. This will provide the IBCTs with significantly improved indirect fire lethality and enable mitigation of the long range indirect precision fire capability gap. Funding will continue to support fielding of Computer Based Training and Computer Aided Instruction products. System complexity increases significantly as a result of planned increased software capability. These products will greatly increase proficiency, safety and mission fire accuracy and are supported by Army and USMC user communities.

"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-3a, Individual Modification: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GZ1700 / M777 Mods				Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer				

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>)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
<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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Mod1- (Hardware Obsolescence): Funds will replace Digital Fire Control Electronic Components to include the Chief of Section Display, Mission Control Computer and Gunners Displays. Integration and qualification efforts for the systems Inertial Navigation Unit (INU) will commence.

Mod2- (Modernization in Service): Funds will modernize the system including replacement of original power conditioning and control module and upgrades to the systems hydraulics to meet reliability requirements.

Mod3 (Interoperability – Communication) - Funding will address interoperability issues through Software and Hardware Engineering Change Proposals. Specific Digital Fire Control Electronic Components to be purchased and field retrofit are the replacement of the Defense Advanced GPS Receiver and Platform Integration Kit with the Improved Platform Integration Kit. These components are required to support future M-Code satellite technologies. The Communication Location Enclosure will be modified to accommodate these replacement items.

Mod4 (Performance Based Life Cycle) - Funding supports program management and approved performance based life cycle sustainment strategy as well as new equipment trainers and field service representatives for all M777A2 howitzers.

Mod5 (Retrofit and Composite Fielding Activities) Funding will support field retrofits of previously contracted Engineering Change Proposals for the Improved Power Conditioning Control Module (I-PCCM), Electronic Thermal Warning Device (ETWD), Hydraulic Power Assist Kit (HyPAK), Muzzle Velocity Sensor System (MVSS) and Primer Feed Mechanism (PFM) Components. Funding will also support fielding LW155s to the IBCTs.

Mod6 (Training Aides, Devices, Simulators) Funding will continue to support fielding of Training Aids, Devices, Simulator and Simulations (TADSS) products to meet JORD requirements. This includes Computer Based Training (CBT), Computer Aided Instruction (CAI) and Lightweight Desktop Trainer (LWDT) products which include training of all critical artillery operator and maintainer tasks.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.018	6.042	7.109	-	7.109	2.553	2.651	1.910	7.134
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.148	4.028	4.804	-	4.804	1.000	1.322	1.291	6.156
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Army							Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GZ1700 / M777 Mods				Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290

(This area is intentionally left blank for detailed budget distribution data.)										
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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1700 / M777 Mods	Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer

Models of Systems Affected: M777A2	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											

Procurement												
Modification Item 1 of 6: Hardware Obsolescence												
A Kits												
Non-Recurring												
DFCS Components	488 / 16.213	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	488 / 16.213
Inertial Navigation Unit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 5.997	120 / 5.997
Engineering Change Proposal	0 / 0.678	- / -	- / -	- / 1.836	- / -	- / 1.836	- / -	- / -	- / -	- / -	- / -	- / 2.514
Subtotal: Non-Recurring	- / 16.891	- / -	- / -	- / 1.836	- / -	- / 1.836	- / -	- / -	- / -	- / 5.997	- / -	- / 24.724
Subtotal: Hardware Obsolescence	488 / 16.891	- / -	- / -	- / 1.836	- / -	- / 1.836	- / -	- / -	- / -	- / 5.997	- / -	608 / 24.724
Modification Item 2 of 6: Modernization in service												
A Kits												
Non-Recurring												
Enhanced Power Pack	0 / 7.873	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	259 / 2.776	259 / 10.649
Digital Direct Fire Sight	- / -	- / 6.670	- / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.770
Electronic Thermal Warning Integration	- / -	518 / 3.140	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	518 / 3.140
Engineering Change Proposal	0 / 0.777	- / -	- / 1.726	- / 2.481	- / -	- / 2.481	- / -	- / 0.994	- / 1.152	- / 1.886	- / -	- / 9.016
Subtotal: Non-Recurring	- / 8.650	- / 9.810	- / 2.826	- / 2.481	- / -	- / 2.481	- / -	- / 0.994	- / 1.152	- / 4.662	- / -	- / 30.575
Subtotal: Modernization in service	0 / 8.650	518 / 9.810	- / 2.826	- / 2.481	- / -	- / 2.481	- / -	- / 0.994	- / 1.152	259 / 4.662	- / -	777 / 30.575
Modification Item 3 of 6: Interoperability - Communication												
A Kits												
Non-Recurring												
Engineering Change Proposal	0 / 1.268	- / -	- / -	- / 2.314	- / -	- / 2.314	- / -	- / -	- / -	- / -	- / -	- / 3.582
Electronic Communication Components	440 / 7.987	- / -	50 / 1.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	490 / 9.287
Subtotal: Non-Recurring	- / 9.255	- / -	- / 1.300	- / 2.314	- / -	- / 2.314	- / -	- / -	- / -	- / -	- / -	- / 12.869
Subtotal: Interoperability - Communication	440 / 9.255	- / -	50 / 1.300	- / 2.314	- / -	- / 2.314	- / -	- / -	- / -	- / -	- / -	490 / 12.869
Modification Item 4 of 6: Performance Based Life Cycle												
A Kits												
Recurring												
Interim Contractor Support	0 / 9.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.014
Systems Engineering	0 / 2.656	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.656
Subtotal: Recurring	- / 11.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.670

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GZ1700 / M777 Mods					Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer				
Models of Systems Affected: M777A2				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	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		
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>					
<i>Subtotal: Performance Based Life Cycle</i>	0 / 11.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.670		
Modification Item 5 of 6: Retrofit and Composite Fielding Activities														
A Kits														
Recurring														
Retrofit and Composite Fielding Activiti	0 / 5.909	- / 6.358	- / 3.454	- / 3.522	- / -	- / 3.522	- / 3.553	- / 1.459	- / 1.549	- / 2.349	- / -	- / 28.153		
Engineering Change Orders	0 / 2.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.443		
<i>Subtotal: Recurring</i>	- / 8.352	- / 6.358	- / 3.454	- / 3.522	- / -	- / 3.522	- / 3.553	- / 1.459	- / 1.549	- / 2.349	- / -	- / 30.596		
<i>Subtotal: Retrofit and Composite Fielding Activities</i>	0 / 8.352	- / 6.358	- / 3.454	- / 3.522	- / -	- / 3.522	- / 3.553	- / 1.459	- / 1.549	- / 2.349	- / -	- / 30.596		
Modification Item 6 of 6: Training Aides, Devices, Simulators														
A Kits														
Recurring														
Software Engineering	0 / 1.842	- / 1.998	- / 2.490	- / 1.760	- / -	- / 1.760	- / -	- / 1.520	- / 0.500	- / 0.282	- / -	- / 10.392		
<i>Subtotal: Recurring</i>	- / 1.842	- / 1.998	- / 2.490	- / 1.760	- / -	- / 1.760	- / -	- / 1.520	- / 0.500	- / 0.282	- / -	- / 10.392		
<i>Subtotal: Training Aides, Devices, Simulators</i>	0 / 1.842	- / 1.998	- / 2.490	- / 1.760	- / -	- / 1.760	- / -	- / 1.520	- / 0.500	- / 0.282	- / -	- / 10.392		
<i>Subtotal: Procurement, All Modification Items</i>	928 / 56.660	518 / 18.166	50 / 10.070	- / 11.913	- / -	- / 11.913	- / 3.553	- / 3.973	- / 3.201	379 / 13.290	- / -	1,875 / 120.826		
Installation														
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
Total														
Total Cost (Procurement + Support + Installation)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826		

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1700 / M777 Mods	Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer

Modification Item 1 of 6: Hardware Obsolescence

Manufacturer Information

Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Oct 2016				Mar 2021
Delivery Dates			Nov 2016				Mar 2022

Installation Information

Method of Implementation (Organic): Digital Fire Control Component Hardware procurement and Engineering Change Proposals	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1700 / M777 Mods	Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer

Modification Item 2 of 6: Modernization in service

Manufacturer Information

Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015	Oct 2016		Oct 2018	Oct 2019	Feb 2021
Delivery Dates		Nov 2015	Nov 2016		Nov 2018	Nov 2019	Dec 2021

Installation Information

Method of Implementation (Organic): Digital Fire Control Component Hardware procurement and Engineering Change Proposals	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1700 / M777 Mods	Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer

Modification Item 3 of 6: Interoperability - Communication

Manufacturer Information

Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015	Oct 2016				
Delivery Dates		Nov 2015	Nov 2016				

Installation Information

Method of Implementation (Organic): Software Engineering, Engineering Change Proposals and procurement of hardware	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1700 / M777 Mods	Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer

Modification Item 4 of 6: Performance Based Life Cycle

Manufacturer Information

Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): MIPR to ARDEC and Exercising Contract Options	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1700 / M777 Mods	Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer

Modification Item 6 of 6: Training Aides, Devices, Simulators

Manufacturer Information

Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021
Delivery Dates	Jul 2015	Jul 2016	Jul 2017	Jul 2018	Jul 2019	Jul 2020	Jul 2021

Installation Information

Method of Implementation (Organic): MIPR to ARDEC, Software Engineering	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods
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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>)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	0.310	-	0.310	-	-	-	-	-	473.838

Description:

The M4 Carbine Modification Program provides combat optics, a Close Quarters Battle Kit (CQBK), and M4 to M4A1 carbine upgrade kits. The Squad Common Optic (SCO) was recently replaced by Small Arms Fire Control Squad, which consists of direct view optic, ballistic module, atmospheric sensors, range finder, and in-scope display which will be optimized for dismounted Infantry Squad weapons. The Improved Weapons Cleaning Kit (IWCK) contains necessary items to conduct a thorough and efficient cleaning of both weapon and optic, and has been reconfigured into: Individual Kit and Team Kit. The M4 Product Improvement Program converts all fielded M4 Carbines to M4A1 configuration by adding a heavy barrel assembly, a full auto trigger mechanism and new ambidextrous controls. Also provides additional carbine improvement in system precision and enabler integration.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.735	23.934	24.504	-	24.504	25.589	27.169	14.105
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.417	4.000	-	4.000	4.250	4.100	3.982
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.215	1.248	-	1.248	1.265	1.282	0.437
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524

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

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh **P-1 Line Item Number / Title:**
 GB3007 / M4 Carbine Mods

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-3a	GB3007 / M4 PIP (Increase Performance)			- / 578.763	- / 7.735	- / 27.566	- / 29.752	- / -	- / 29.752
P-40	Total Gross/Weapon System Cost			- / 578.763	- / 7.735	- / 27.566	- / 29.752	- / -	- / 29.752

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GB3007 / M4 PIP (Increase Performance)			- / 31.104	- / 32.551	- / 18.524	- / 37.358	- / -	- / 763.353
P-40	Total Gross/Weapon System Cost			- / 31.104	- / 32.551	- / 18.524	- / 37.358	- / -	- / 763.353

*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:
 FY 2017 Base procurement dollars in the amount of \$29.752 million supports the procurement of Improved Weapons Cleaning Kits (IWCK), the purchase of the enhanced performance magazine, and the conversion of M4 to M4A1 Carbine. The M4 Carbine upgrade converts the M4 to the M4A1 and provides additional improvements in system precision and enabler integration. FY17 funding covers labor for the M4 PIP system support modification work order team (MWO) to include the M4 PIP Staging Facility located in Anniston, Alabama, the M4 PIP Installation travel teams, and Tank Automotive Command (TACOM) MWO Support Team. The IWCK has been reconfigured to increase the utility to the Soldier and drive down unit cost. The Individual Kit contains the tools to clean 5.56mm weapon systems, while the Team Kit contain tools to clean 5.56mm, 7.62mm, 9mm, and .45 caliber weapons systems.

In accordance with Section 1815 of the FY 2008 National Defense 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-3a, Individual Modification: PB 2017 Army										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods						Modification Number / Title: GB3007 / M4 PIP	

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>)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353

(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 Thousands</i>)	-	-	-	0.310	-	0.310	-	-	-	-	-	473.838

Description:

The M4 Carbine Modification Program provides combat optics, Close Quarters Battle Kit, an improved buttstock, a modular weapon system and a product improvement kit. The modular weapon system includes an adapter rail system and a back-up iron sight. The M4 Product Improvement Program converts all fielded M4 Carbines to M4A1 configuration by adding a heavy barrel assembly, a full auto trigger mechanism and new ambidextrous controls. Also provides additional carbine improvement in system precision and enabler integration. The kits enhance current M4 Carbine's sustained rate of fire, ergonomics, reliability, durability, and maintainability.

Close Quarters Battle Kit (MOD 2): The Close Quarters Battle Kit (CQBK) provides the Soldier with multiple low cost items to increase lethality and survivability with individual weapons. The Improved Weapons Cleaning Kit (IWCK) contains all the necessary items needed to conduct a thorough and efficient cleaning of both the weapon and the optic. The IWCK has been reconfigured into two separate kits: Individual Kit and Team Kit. The IWCK has been reconfigured to increase the utility to the Soldier and the weapon systems. The Individual Kit will be fielded to every Soldier issued a M4/M16. The Team Kit will be fielded one per Fire Team or 2 per squad of nine (9) Soldiers. The enhanced performance magazine will be procured for the carbine/rifle fleet.

M4 Product Improvement Program (PIP) Phase I (MOD 3): Phase I Increment C converts up to 483,000 M4 Carbines to M4A1 Carbines by incorporating the M4A1 heavy barrel assembly, the M4A1 full auto trigger mechanism, and a new ambidextrous selector. The kits enhance current M4 Carbine's sustained rate of fire, ergonomics, reliability, durability, and maintainability. Also provide additional carbine improvement in system precision and enabler integration.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.735	23.934	24.504	-	24.504	25.589	27.169	14.105	37.358
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.417	4.000	-	4.000	4.250	4.100	3.982	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.215	1.248	-	1.248	1.265	1.282	0.437	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP

Development Status/Major Development Milestones

Date	Title	Description
Apr 2014	M4 PIP MWO Field Conversion	M4 PIP Phase 1; MWO Initial Conversion; Ft Riley, KS
Jul 2014	M4 PIP MWO Field Conversion	M4 PIP Phase 1; MWO Field Conversion; Ft Stewart/Hunter Army Airfield, GA
Aug 2014	Contract Awards	M4 PIP Phase 1 (ACC-NJ) Gas Tube recompetete & (ACC-NJ) Ambidextrous Selectors (Delivery Orders)
Oct 2014	M4 PIP MWO Field Conversion	M4 PIP Phase 1; MWO Field Conversion; Ft Drum, NY
Feb 2015	M4 PIP MWO Field Conversion	M4 PIP Phase 1; MWO Field Conversion; Ft Bragg, NC
Jun 2015	M4 PIP MWO Field Conversion	M4 PIP Phase 1; MWO Field Conversion; Ft Campbell, KY
Nov 2015	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Ft. Riley, KS
Dec 2015	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Ft. Benning, GA
Feb 2016	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Ft. Polk, LA
Mar 2016	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Ft. Lewis, WA
May 2016	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Ft. Carson & Ft. Hood, TX
Sep 2016	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Oklahoma National Guard

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods					Modification Number / Title: GB3007 / M4 PIP			
Models of Systems Affected: M4/M4A1 CARBINE				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
Modification Item 1 of 3: Combat Optics/Small Arms Fire Control Squad													
B Kits													
Recurring													
Combat Optics	459,113 / 139.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,838 / 13.655	- / -	460,951 / 153.155	
Program Management	0 / 11.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.260	- / 0.800	- / -	- / 12.610	
Engineering Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.205	- / 1.415	- / -	- / 1.620	
Test	0 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / -	- / 0.900	
Integrated Logistical Support	0 / 2.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.010	- / 0.150	- / -	- / 3.150	
Total Package Fielding	0 / 2.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.015	- / 0.400	- / -	- / 2.515	
New Equipment Training	0 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.010	- / 0.500	- / -	- / 0.610	
Subtotal: Recurring	- / 156.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 17.420	- / -	- / 174.560	
Subtotal: Combat Optics/Small Arms Fire Control Squad	459,113 / 156.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	1,838 / 17.420	- / -	460,951 / 174.560	
Modification Item 2 of 3: Close Quarters Battle Kit													
B Kits													
Recurring													
Close Quarters Battle Kit	149,182 / 302.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	149,182 / 302.600	
Improved Weapons Cleaning Kit (Indv)	143,159 / 11.364	- / -	93,098 / 8.148	62,056 / 5.703	- / -	62,056 / 5.703	50,906 / 4.912	25,710 / 2.605	24,384 / 2.596	88,415 / 9.876	- / -	487,728 / 45.204	
Improved Weapons Cleaning Kit (Team)	- / -	- / -	26,690 / 2.716	17,791 / 1.901	- / -	17,791 / 1.901	14,600 / 1.638	7,368 / 0.868	6,993 / 0.865	23,348 / 3.292	- / -	96,790 / 11.280	
Improved Magazines	119,760 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	119,760 / 1.000	
Enhanced Performance Magazines	- / -	- / -	8,333 / 0.100	2,040 / 0.020	- / -	2,040 / 0.020	166,666 / 2.000	5,069,016 / 6.083	8,333 / 0.100	508,333 / 6.100	- / -	5,762,721 / 14.403	
Program Management	0 / 0.100	- / 0.175	- / 0.180	- / 0.185	- / -	- / 0.185	- / 0.190	- / 0.200	- / 0.205	- / 0.210	- / -	- / 1.445	
Engineering Support	0 / 12.900	- / 0.485	- / 0.310	- / 0.315	- / -	- / 0.315	- / 0.318	- / 0.305	- / 0.310	- / 0.315	- / -	- / 15.258	
Integrated Logistic Support	0 / 4.720	- / -	- / 0.020	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.020	- / 0.025	- / 0.025	- / -	- / 4.860	
Total Package Fielding	0 / 2.844	- / -	- / 0.100	- / 0.103	- / -	- / 0.103	- / 0.105	- / 0.110	- / 0.115	- / 0.120	- / -	- / 3.497	
Subtotal: Recurring	- / 335.528	- / 0.660	- / 11.574	- / 8.252	- / -	- / 8.252	- / 9.188	- / 10.191	- / 4.216	- / 19.938	- / -	- / 399.547	
Subtotal: Close Quarters Battle Kit	412,101 / 335.528	- / 0.660	128,121 / 11.574	81,887 / 8.252	- / -	81,887 / 8.252	232,172 / 9.188	5,102,094 / 10.191	39,710 / 4.216	620,096 / 19.938	- / -	6,616,181 / 399.547	
Modification Item 3 of 3: M4 Product Improvement Program (PIP) Phase I													

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods					Modification Number / Title: GB3007 / M4 PIP			
Models of Systems Affected: M4/M4A1 CARBINE				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
B Kits													
Recurring													
Hardware M4 PIP Phase 1 (kit equivalent)	483,000 / 73.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	483,000 / 73.802	
Hardware PIP Parts (bench stocks,others)	0 / 3.327	- / 0.735	- / 2.815	- / 3.440	- / -	- / 3.440	- / 3.691	- / 3.323	- / 1.540	- / -	- / -	- / 18.871	
System Support MWO Team/TACOM	0 / 2.680	- / 0.878	- / 1.424	- / 1.463	- / -	- / 1.463	- / 1.465	- / 1.475	- / 1.542	- / -	- / -	- / 10.927	
Program Management	0 / 0.460	- / 0.071	- / 0.315	- / 0.320	- / -	- / 0.320	- / 0.325	- / 0.330	- / 0.375	- / -	- / -	- / 2.196	
Engineering Support	0 / 1.386	- / 0.250	- / 0.410	- / 0.420	- / -	- / 0.420	- / 0.425	- / 0.430	- / 0.500	- / -	- / -	- / 3.821	
Integrated Logistics Support	0 / 0.522	- / 0.040	- / 0.040	- / 0.045	- / -	- / 0.045	- / 0.045	- / 0.048	- / 0.055	- / -	- / -	- / 0.795	
Transportation Costs	0 / 0.140	- / 0.010	- / 0.450	- / 0.500	- / -	- / 0.500	- / 0.550	- / 0.515	- / 0.520	- / -	- / -	- / 12.685	
Subtotal: Recurring	- / 82.317	- / 1.984	- / 5.454	- / 6.188	- / -	- / 6.188	- / 6.501	- / 6.121	- / 4.532	- / -	- / -	- / 113.097	
Subtotal: M4 Product Improvement Program (PIP) Phase I	483,000 / 82.317	- / 1.984	- / 5.454	- / 6.188	- / -	- / 6.188	- / 6.501	- / 6.121	- / 4.532	- / -	- / -	483,000 / 113.097	
Subtotal: Procurement, All Modification Items	1,354,214 / 574.485	- / 2.644	128,121 / 17.028	81,887 / 14.440	- / -	81,887 / 14.440	232,172 / 15.689	5,102,094 / 16.312	39,710 / 9.248	621,934 / 37.358	- / -	7,560,132 / 687.204	
Installation													
Modification Item 3 of 3: M4 Product Improvement Program (PIP) Phase I	23,154 / 4.278	46,953 / 5.091	79,374 / 10.538	96,000 / 15.312	- / -	96,000 / 15.312	96,000 / 15.415	96,000 / 16.239	45,537 / 9.276	- / -	- / -	483,018 / 76.149	
Subtotal: Installation	23,154 / 4.278	46,953 / 5.091	79,374 / 10.538	96,000 / 15.312	- / -	96,000 / 15.312	96,000 / 15.415	96,000 / 16.239	45,537 / 9.276	- / -	- / -	483,018 / 76.149	
Total													
Total Cost (Procurement + Support + Installation)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353	

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP
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Modification Item 1 of 3: Combat Optics/Small Arms Fire Control Squad

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (<i>in Months</i>): 5	Production Leadtime (<i>in Months</i>): 2
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							Feb 2021
Delivery Dates							May 2021

Installation Information

Method of Implementation (Organic): Installed by Soldiers	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP
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Modification Item 2 of 3: Close Quarters Battle Kit

Manufacturer Information

Manufacturer Name: DLA Tailoring Logistic Support(various vendors)	Manufacturer Location: Philadelphia, PA
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 4
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Feb 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Jun 2015	Feb 2016	May 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021

Installation Information

Method of Implementation (Organic): Installed by Soldiers	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP

Modification Item 3 of 3: M4 Product Improvement Program (PIP) Phase I

Manufacturer Information

Manufacturer Name: Various Vendors	Manufacturer Location: Various Locations
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015	Oct 2016				
Delivery Dates	Dec 2014	Dec 2015	Dec 2016				

Installation Information

Method of Implementation: Installed by TACOM

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	23,154 / 4.278	46,953 / 5.091	79,374 / 10.538	96,000 / 15.312	- / -	96,000 / 15.312	96,000 / 15.415	96,000 / 16.239	45,537 / 9.276	- / 0.000	- / 0.000	483,018 / 76.149
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	23,154 / 4.278	46,953 / 5.091	79,374 / 10.538	96,000 / 15.312	- / -	96,000 / 15.312	96,000 / 15.415	96,000 / 16.239	45,537 / 9.276	- / -	- / -	483,018 / 76.149

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot						
		Q1	Q2	Q3	Q4																																
In	23,154	11,738	11,738	11,738	11,739	19,843	19,843	19,844	19,844	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	11,385	11,384	11,384	11,384	-	-	-	-	-	483,018
Out	23,154	11,738	11,738	11,738	11,739	19,843	19,843	19,844	19,844	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	11,385	11,384	11,384	11,384	-	-	-	-	-	483,018

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	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>)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	3.503	-	3.503	-	-	-	-	-	280.662

Description:

The M2A1 Quick Change Barrel (QCB) Kit provides enhancements for the .50 Caliber M2 Heavy Barrel Machine Gun to provide the Soldier with the ability to quickly change the barrel without the need to reset the headspace and timing and reduce the visible muzzle flash. The quick change barrel kits are being produced allowing the Army to retrofit the current M2 fleet on a one for one basis. In a dismounted role, the M2/MK19 Machine Guns are mounted on the M3 Tripod or the M205 Lightweight Tripod. The 34 pound M205 Tripod reduces the Soldier burden by 16 pounds, as the current M3 Tripod weighs 50 pounds (including traverse and elevation mechanisms and pintle). The Mounted Machine Gun Optic (MMO) will provide increased accuracy by equipping Medium/Heavy Machine Guns, including the M2/M2A1, with a magnified optic. The MMO will significantly improve target identification and engagement at extended ranges while retaining the capability of short range, transition fire. The Fire Control Unit (FCU) provides ability to acquire, identify and range targets and provides a means of applying laser pointer/designator combat ID, optics, and systems communication of the M2/M2A1. The MK93 is the primary mount used to interface the M2/M2A1 with all Army vehicles and ground mounts. Improvements being implemented include rotary dampers to minimize weapon bounce during vehicle operations which will increase the probability of hit on target while still allowing fast changes in both direction and elevation. Continues engineering studies on the M2A1 Machine Gun components, the M205 Lightweight Tripod to lighten the Soldier's load and the upgrades to the MK93 Mount.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.170	15.042	16.491	-	16.491	21.013	26.009	1.391	7.916
ANG	Quantity	-	-	-	-	-	2,750	-	-	-
	Total Obligation Authority	8.095	17.302	17.731	-	17.731	6.000	16.927	2.922	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.830	11.660	14.360	-	14.360	10.000	-	7.390	3.000
Total: Secondary Distribution	Quantity	-	-	-	-	-	2,750	-	-	-
	Total Obligation Authority	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh **P-1 Line Item Number / Title:** GB4000 / M2 50 Cal Machine Gun MODS

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604601A **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-3a	GB4000 / M2 Mods (Increase performance)			- / 231.897	- / 25.095	- / 44.004	- / 48.582	- / -	- / 48.582
P-40	Total Gross/Weapon System Cost			- / 231.897	- / 25.095	- / 44.004	- / 48.582	- / -	- / 48.582

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GB4000 / M2 Mods (Increase performance)			- / 37.013	- / 42.936	- / 11.703	- / 10.916	- / -	- / 452.146
P-40	Total Gross/Weapon System Cost			- / 37.013	- / 42.936	- / 11.703	- / 10.916	- / -	- / 452.146

*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 \$48.582 million supports the Active Army, the National Guard and the Reserve by purchasing 10,500 M205 Lightweight Tripods and 3,445 MK93 Improvement Kits. The 34 pound M205 Tripod reduces the Soldier burden by 16 pounds, as the current M3 tripod weighs 50 pounds (including traverse and elevation mechanisms and pintle). The MK93 Improvement Kits include rotary dampers, a link deflector and an improved M2 cradle to enhance overall performance of the mounted machine gun during vehicle operations. Continues engineering studies on the M2A1 Machine Gun components, the M205 Lightweight Tripod to lighten the Soldier's load and the upgrades to the MK93 Mount.

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-3a, Individual Modification: PB 2017 Army										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS						Modification Number / Title: GB4000 / M2 Mods	

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>)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146

(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 Thousands</i>)	-	-	-	3.503	-	3.503	-	-	-	-	-	280.662

Description:

The M2A1 Quick Change Barrel (QCB) Kit provides enhancements for the .50 Caliber M2 Heavy Barrel Machine Gun to provide the Soldier with the ability to quickly change the barrel without the need to reset the headspace and timing and reduce the visible muzzle flash. In a dismounted role, the M2/MK19 Machine Guns are mounted on the M3 Tripod or the M205 Lightweight Tripod. The 34 pound M205 Tripod reduces the Soldier burden by 16 pounds, as the current M3 Tripod weighs 50 pounds (including traverse and elevation mechanisms and pintle). The M205 Tripod provides integral traverse and elevation mechanisms for easier, more accurate target engagement; adjustable traverse limit stop for night time missions; and a new lightweight pintle design. The Mounted Machine Gun Optic (MMO) will provide increased accuracy by equipping Medium/Heavy Machine Guns, including the M2/M2A1, with a magnified optic. The MMO will significantly improve target identification and engagement at extended ranges while retaining the capability of short range, transition fire. The MK93 is the primary mount used to interface the M2/M2A1 with all Army vehicles and ground mounts. Improvements being implemented include rotary dampers to minimize weapon bounce during vehicle operations which will increase the probability of hit on target while still allowing fast changes in both direction and elevation. Continues engineering studies on the M2A1 Machine Gun components, the M205 Lightweight Tripod to lighten the Soldier's load and the upgrades to the MK93 Mount.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.170	15.042	16.491	-	16.491	21.013	26.009	1.391	7.916
ANG	Quantity	-	-	-	-	-	2,750	-	-	-
	Total Obligation Authority	8.095	17.302	17.731	-	17.731	6.000	16.927	2.922	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.830	11.660	14.360	-	14.360	10.000	-	7.390	3.000
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916

Development Status/Major Development Milestones

Date	Title	Description
Aug 2011	Production Verification Test	XM205 Tripod
Aug 2011	Operational Test	XM205 Tripod
Aug 2012	Type Classification - Standard	M205 Tripod

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods
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Development Status/Major Development Milestones

Date	Title	Description
Oct 2013	First Unit Equipped	M205 Tripod

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS					Modification Number / Title: GB4000 / M2 Mods			
Models of Systems Affected: Machine Gun, CAL .50 M2 and MK-19 Grenade Machine Gun					Modification Type: Increase performance					Related RDT&E PEs:			
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
Procurement													
Modification Item 1 of 4: M2A1 Quick Change Barrel Kit													
B Kits													
Recurring													
Hardware Quick Change Barrel Kits	31,440 / 172.990	356 / 1.390	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31,796 / 174.380	
Engineering Support	0 / 6.534	- / 1.250	- / 1.250	- / 1.150	- / -	- / 1.150	- / 1.150	- / 1.250	- / 1.270	- / 1.270	- / -	- / 15.124	
Program Management Support	0 / 1.626	- / -	- / 0.770	- / 0.570	- / -	- / 0.570	- / 0.483	- / 0.529	- / 0.333	- / 0.333	- / -	- / 4.644	
Integrated Logistics Support	0 / 0.950	- / 0.326	- / 0.330	- / 0.330	- / -	- / 0.330	- / 0.330	- / 0.330	- / 0.330	- / 0.330	- / -	- / 3.256	
Fielding	0 / 0.800	- / 0.400	- / 0.300	- / 0.300	- / -	- / 0.300	- / 0.300	- / 0.400	- / 0.600	- / 0.600	- / -	- / 3.700	
New Equipment Training	0 / 0.770	- / 0.350	- / 0.300	- / 0.300	- / -	- / 0.300	- / 0.400	- / 0.500	- / 0.700	- / 0.700	- / -	- / 4.020	
First Destination Transportation	0 / 1.441	- / 0.200	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 2.241	
Engineering Studies	0 / 0.066	- / 1.369	- / 3.689	- / 1.378	- / -	- / 1.378	- / 1.270	- / 1.327	- / -	- / -	- / -	- / 9.099	
Testing	0 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.800	
Anniston Packaging	0 / 0.700	- / 0.770	- / 1.669	- / 1.226	- / -	- / 1.226	- / 1.453	- / 0.393	- / -	- / -	- / -	- / 6.211	
Subtotal: Recurring	- / 186.677	- / 6.055	- / 8.408	- / 5.354	- / -	- / 5.354	- / 5.486	- / 4.829	- / 3.333	- / 3.333	- / -	- / 223.475	
Subtotal: M2A1 Quick Change Barrel Kit	31,440 / 186.677	356 / 6.055	- / 8.408	- / 5.354	- / -	- / 5.354	- / 5.486	- / 4.829	- / 3.333	- / 3.333	- / -	31,796 / 223.475	
Modification Item 2 of 4: Tripods													
B Kits													
Recurring													
M3 Tripods	11,109 / 8.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11,109 / 8.500	
M205 Tripod	11,088 / 27.518	6,026 / 11.055	10,453 / 18.178	10,500 / 18.637	- / -	10,500 / 18.637	3,584 / 6.430	2,548 / 6.726	- / -	- / -	- / -	44,199 / 88.544	
Engineering Support	0 / 1.637	- / 3.654	- / 4.567	- / 3.700	- / -	- / 3.700	- / 2.800	- / 2.750	- / 0.750	- / 0.800	- / -	- / 20.658	
Program Management Support	0 / 0.766	- / -	- / 3.028	- / 3.262	- / -	- / 3.262	- / 1.828	- / 1.599	- / 0.255	- / 0.267	- / -	- / 11.005	
Integrated Logistics Support	0 / 0.350	- / 0.190	- / 0.250	- / 0.275	- / -	- / 0.275	- / 0.300	- / 0.250	- / 0.250	- / 0.225	- / -	- / 2.090	
New Equipment Training	0 / 0.407	- / 0.225	- / 0.260	- / 0.325	- / -	- / 0.325	- / 0.400	- / 0.350	- / 0.200	- / -	- / -	- / 2.167	
Fielding	0 / 0.465	- / 0.200	- / 0.100	- / 0.275	- / -	- / 0.275	- / 0.350	- / 0.350	- / 0.200	- / -	- / -	- / 1.940	
Engineering Study	0 / 0.175	- / 0.600	- / 0.400	- / 0.693	- / -	- / 0.693	- / 0.675	- / -	- / -	- / -	- / -	- / 2.543	
M205 Tripod - Rock Island Arsenal (RIA)	- / -	- / 0.666	350 / 3.430	350 / 3.493	- / -	350 / 3.493	275 / 2.893	150 / 2.644	- / -	- / -	- / -	1,125 / 13.126	
Engineering Change Proposal	- / -	- / -	- / -	- / 1.750	- / -	- / 1.750	- / 1.750	- / 1.250	- / 0.890	- / 1.375	- / -	- / 7.015	
Testing (First Article)	0 / 1.780	- / -	- / -	- / -	- / -	- / -	- / 0.750	- / -	- / -	- / -	- / -	- / 2.530	
First Destination Transportation	0 / 0.300	- / 0.100	- / 0.065	- / 0.209	- / -	- / 0.209	- / 0.108	- / 0.073	- / -	- / -	- / -	- / 0.855	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army											Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS					Modification Number / Title: GB4000 / M2 Mods			
Models of Systems Affected: Machine Gun, CAL .50 M2 and MK-19 Grenade Machine Gun				Modification Type: Increase performance				Related RDT&E PEs:				
Financial Plan	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
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>			
<i>Subtotal: Recurring</i>	- / 41.898	- / 16.690	- / 30.278	- / 32.619	- / -	- / 32.619	- / 18.284	- / 15.992	- / 2.545	- / 2.667	- / -	- / 160.973
<i>Subtotal: Tripods</i>	22,197 / 41.898	6,026 / 16.690	10,803 / 30.278	10,850 / 32.619	- / -	10,850 / 32.619	3,859 / 18.284	2,698 / 15.992	- / 2.545	- / 2.667	- / -	56,433 / 160.973
Modification Item 3 of 4: MK93 Improvements												
B Kits												
Recurring												
MK93 Improvements	- / -	- / -	- / -	3,445 / 5.482	- / -	3,445 / 5.482	3,177 / 5.132	933 / 4.684	1,302 / 0.765	2,189 / 0.414	- / -	11,046 / 16.477
Engineering Support	0 / 0.200	- / 0.376	- / 0.911	- / 1.000	- / -	- / 1.000	- / 1.099	- / 2.650	- / 0.803	- / 0.945	- / -	- / 17.984
Program Management Support	- / -	- / 0.074	- / 0.447	- / 0.977	- / -	- / 0.977	- / 0.855	- / 2.636	- / 0.354	- / 0.247	- / -	- / 15.590
Integrated Logistics Support	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.125	- / 0.125	- / 0.150	- / 0.150	- / -	- / 0.650
Material Work Order (ANAD)	- / -	- / -	- / 0.650	- / -	- / -	- / -	- / 0.719	- / 0.635	- / 1.010	- / 0.091	- / -	- / 13.105
Material Work Order (TACOM)	- / -	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.625	- / 0.625	- / 0.465	- / 0.625	- / -	- / 12.740
Testing (First Article)	- / -	- / -	- / -	- / 0.350	- / -	- / 0.350	- / -	- / -	- / -	- / -	- / -	- / 0.350
Testing	0 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500
Engineering Studies	0 / 0.600	- / 1.050	- / 2.460	- / 1.450	- / -	- / 1.450	- / -	- / -	- / -	- / -	- / -	- / 15.560
<i>Subtotal: Recurring</i>	- / 1.300	- / 1.500	- / 4.468	- / 9.759	- / -	- / 9.759	- / 8.555	- / 11.355	- / 3.547	- / 2.472	- / -	- / 42.956
<i>Subtotal: MK93 Improvements</i>	0 / 1.300	- / 1.500	- / 4.468	3,445 / 9.759	- / -	3,445 / 9.759	3,177 / 8.555	933 / 11.355	1,302 / 3.547	2,189 / 2.472	- / -	11,046 / 42.956
Modification Item 4 of 4: Mounted Machine Gun Optic												
B Kits												
Recurring												
Mounted MG Optic	- / -	- / -	- / -	- / -	- / -	- / -	1,420 / 2.983	876 / 7.542	1,625 / 1.653	2,540 / 1.325	- / -	6,461 / 13.503
Engineering Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / 0.825	- / 0.375	- / 0.325	- / -	- / 11.725
Program Management Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.150	- / 0.725	- / 0.050	- / 0.150	- / -	- / 1.075
Integrated Logistics Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.080	- / 0.350	- / 0.100	- / 0.200	- / -	- / 0.730
Fielding	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 0.550	- / 0.050	- / 0.294	- / -	- / 1.194
New Equipment Training	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.125	- / 0.375	- / 0.050	- / 0.150	- / -	- / 0.700
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.838	- / 10.367	- / 2.278	- / 2.444	- / -	- / 18.927
<i>Subtotal: Mounted Machine Gun Optic</i>	- / -	- / -	- / -	- / -	- / -	- / -	1,420 / 3.838	876 / 10.367	1,625 / 2.278	2,540 / 2.444	- / -	6,461 / 18.927
<i>Subtotal: Procurement, All Modification Items</i>	53,637 / 229.875	6,382 / 24.245	10,803 / 43.154	14,295 / 47.732	- / -	14,295 / 47.732	8,456 / 36.163	4,507 / 42.543	2,927 / 11.703	4,729 / 10.916	- / -	105,736 / 446.331
Installation												
Modification Item 1 of 4: M2A1 Quick Change Barrel Kit	10,325 / 2.022	4,800 / 0.850	4,800 / 0.850	5,400 / 0.850	- / -	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	- / -	- / -	- / -	31,796 / 5.815
<i>Subtotal: Installation</i>	10,325 / 2.022	4,800 / 0.850	4,800 / 0.850	5,400 / 0.850	- / -	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	- / -	- / -	- / -	31,796 / 5.815

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS						Modification Number / Title: GB4000 / M2 Mods		
Models of Systems Affected: Machine Gun, CAL .50 M2 and MK-19 Grenade Machine Gun				Modification Type: Increase performance				Related RDT&E PEs:				
Financial Plan	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
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>			
Total												
Total Cost (Procurement + Support + Installation)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods

Modification Item 1 of 4: M2A1 Quick Change Barrel Kit

Manufacturer Information

Manufacturer Name: General Dynamics Ordnance Tactical Systems	Manufacturer Location: Saco, ME
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Feb 2015						
Delivery Dates	Oct 2015						

Installation Information

Method of Implementation: Overhaul/conversion

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	10,325 / 2.022	4,800 / 0.850	4,800 / 0.850	5,400 / 0.850	- / -	5,400 / 0.850	5,400 / 0.850	715 / 0.100	- / 0.000	- / 0.000	- / 0.000	31,440 / 5.522
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	356 / 0.293	- / -	- / -	- / -	356 / 0.293
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10,325 / 2.022	4,800 / 0.850	4,800 / 0.850	5,400 / 0.850	- / -	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	- / -	- / -	- / -	31,796 / 5.815

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																		
In	12,525	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32,796
Out	11,325	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32,796

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods
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Modification Item 2 of 4: Tripods

Manufacturer Information

Manufacturer Name: Capco, Inc.	Manufacturer Location: Grand Junction, CO
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Administrative Leadtime (<i>in Months</i>): 6	Production Leadtime (<i>in Months</i>): 9
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019		
Delivery Dates	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019		

Installation Information

Method of Implementation (Organic): Installed by Troops	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods
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Modification Item 3 of 4: MK93 Improvements

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime <i>(in Months)</i> : 7	Production Leadtime <i>(in Months)</i> : 8
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021
Delivery Dates	Apr 2016	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021

Installation Information

Method of Implementation (Organic): Installed by Troops	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Army					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS		Modification Number / Title: GB4000 / M2 Mods		
Modification Item 4 of 4: Mounted Machine Gun Optic							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 10			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Jan 2019	Jan 2020	Jan 2021	Jan 2022
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight machine gun that can be utilized in either the automatic rifle role or light machine gun role. Various system enhancements have been identified that improve the use of this weapon system. These include the addition of a feedtray cover rail and forward rail assemblies. The addition of these rails provides a Military-Standard-1913 interface allowing the mounting of standard military optics and other target designation devices directly to the machine gun. Improved components include a collapsible buttstock, bipod, drop-in mount cradle and 200-round ammunition pack. Other items being procured to enhance Soldier performance include design modifications to the lightweight ground mount, short barrel, short barrel blank firing adapter, improved sling assembly and improved extractor and op-rod kits.

The M197 Vehicle Mount is the current standard used to mount the M249 and M240B to most vehicle platforms. A system improvement (drop in mount cradle) adds a link/spent case deflector and ammo handling system to provide capability upgrades addressing issues that Soldiers have identified as shortcomings of the current system.

The M192 is the primary ground mount for the M240B/L and M249 machine guns. Based on recent combat experience, improvements are required to address identified shortcomings in the design and to enhance operational performance.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GZ1290 / M249 SAW Machine Gun MODS (Increase Performance)			- / 151.766	- / 5.546	- / 1.190	- / 1.179	- / -	- / 1.179
P-40	Total Gross/Weapon System Cost			- / 151.766	- / 5.546	- / 1.190	- / 1.179	- / -	- / 1.179

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GZ1290 / M249 SAW Machine Gun MODS (Increase Performance)			- / 1.179	- / 1.179	- / 1.181	- / -	- / -	- / 163.220
P-40	Total Gross/Weapon System Cost			- / 1.179	- / 1.179	- / 1.181	- / -	- / -	- / 163.220

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

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

Justification:
 FY 2017 Base procurement dollars in the amount of \$1.179 million supports the Active Army by purchasing Collapsible Buttstocks and M197 Modification Work Order (MWO) Kits (drop-in mount cradle) for the M249 SAW Machine Gun weapon system. Continues support on Short Barrels, Short Barrel Blank Firing Adapters (BFA), M192 Lightweight Ground Mount improvements (MWO Kits), and Feedbox Support Improvement Kits (FSIK). The M249 SAW when deployed with a collapsible buttstock and short barrel it reduces the overall weapon length by 10 inches, when compared to the standard issue M249 SAW. The shorter length improves Military Operation in Urban Terrain (MOUT) and Airborne/Air Assault Operations. It allows for easier egress and entrance into vehicles and confined areas, also facilitates clearing operation in current urban combat environments. Improvements to the short barrel will also increase durability and enhance the operability by the Warfighter. The shortened M249 SAW improves survivability in extended missions and close combat situations encountered in current war-time deployments.

The M197 MWO Kit (drop-in mount cradle) upgrades the existing M197 Vehicle Mounts to add a link/spent case deflector and ammo handling system. These upgrades provide capability improvements addressing issues that Soldiers have identified as shortcomings of the current system. The M192 MWO Kit upgrades the primary lightweight ground mount used for the M249 to address shortcomings detected during recent combat excursions.

In accordance with Section 1815 of the FY2008 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-3a, Individual Modification: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS				Modification Number / Title: GZ1290 / M249 SAW Machine Gun MODS				

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>	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
<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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Various system enhancements have been identified that improve the use of this weapon system. Improved components include a collapsible buttstock, bipod, drop-in mount cradle and 200-round ammunition pack and Feedbox Support Improvement Kit (FSIK). Other items being procured to enhance Soldier performance include a lightweight ground mount, short barrel, short barrel blank firing adapter and improved sling assembly.

M249 SAW Bipod (MOD 1):The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight, machine gun that will be utilized in the automatic rifle role and light machine gun role. When the SAW is used in the automatic rifle role, the bottom rail provides an attachment point for the vertical handgrip. The Improved Bipod allows for the Bipod to be pivoted around the forward grip attached to the rail. The improved bipod is stronger, compatible with the front and bottom rails, and has easier adjustability of bipod legs for the Soldier.

M249 Short Barrel/BFA/Coll Buttstock/Ext Op-Rod (MOD 2):The M249 Squad Automatic Weapon (SAW) Short Barrel and Lightweight Collapsible Buttstock (LCBS) provides a shorter version of the 5.56 automatic weapon to allow for better maneuverability in close quarters. The Short barrel in conjunction with the LCBS shortens the M249 SAW by almost 8 inches. The shorter weapon enhances operational capabilities by improving Military Operations in Urban Terrain (MOUT) maneuverability and Airborne/Air Assault jump capabilities. The Short Barrel firing Adapters will allow for realistic training allowing use of the short barrels in training exercises. M249 SAW Short Barrel and Lightweight Collapsible Buttstock improvements increase maneuverability, reliability and availability of overall weapon system. For FY15 and out, Design West Technologies is the manufacturer of the Lightweight Collapsible Buttstocks.The improved Extractor and Op-Rods will enhance performance of the M249 and increase reliability and durability of the weapon system.

Lightweight Ground Mount/Drop-in Mount Cradle (MOD 3):The M192 is the primary ground mount for the M240B/L and M249 machine guns. Based on recent combat experience, improvements are required to address identified shortcomings in the design and to enhance operational performance. The M192 Modification Work Order (MWO) kit procures components to upgrade this system. The M197 Vehicle Mount is the current standard used to mount the M249 and M240B to most vehicle platforms. A system improvement (drop-in mount cradle) adds a link/spent case deflector and ammo handling system to provide capability upgrades addressing issues that Soldiers have identified as shortcomings of the current system.

200rd/Feedbox Spt Improvement Kit (Mod 4):The 200-round soft pack magazine provides quiet operation and easy reloading with a 200 round capacity. The M249 Sling Assembly provides improved durability, easier adjustability, improved human factors and improved quick detach buckles. The Feedbox Support Improvement Kit (FSIK), also known as Dovetail, support strengthens the magazine/weapon interface preventing unintended detaching of the magazine during rough handling. The improved barrel bag provides superior durability to withstand hot barrels and improved carry capacity.

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Exhibit P-3a, Individual Modification: PB 2017 Army							Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS				Modification Number / Title: GZ1290 / M249 SAW Machine Gun MODS			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS	Modification Number / Title: GZ1290 / M249 SAW Machine Gun MODS

Models of Systems Affected: M249 SAW Machine Gun	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											

Procurement

Modification Item 1 of 4: M249 SAW Bipod												
B Kits												
Recurring												
Hardware	3,075 / 16.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,075 / 16.208
Engineering Support	0 / 3.243	- / 0.200	- / 0.025	- / 0.020	- / -	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / 3.488
Integrated Logistical Support	0 / 0.780	- / 0.050	- / 0.025	- / 0.025	- / -	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / 0.880
Fielding	0 / 0.598	- / 0.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.670
Program Management Support	0 / 0.446	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.646
Subtotal: Recurring	- / 21.275	- / 0.522	- / 0.050	- / 0.045	- / -	- / 0.045	- / -	- / 21.892				
Subtotal: M249 SAW Bipod	3,075 / 21.275	- / 0.522	- / 0.050	- / 0.045	- / -	- / 0.045	- / -	3,075 / 21.892				

Modification Item 2 of 4: M249 Short Barrel/BFA/Coll Buttstock/Ext Op-Rod												
B Kits												
Recurring												
Hardware	0 / 60.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 60.000
Short Barrel	11,226 / 3.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11,226 / 3.889
Blank Firing Adapter	24,493 / 2.293	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24,493 / 2.293
Collapsible Buttstock	7,049 / 1.715	3,429 / 1.351	1,269 / 0.500	1,260 / 0.500	- / -	1,260 / 0.500	1,395 / 0.550	1,260 / 0.500	1,260 / 0.500	- / -	- / -	16,922 / 5.616
Extractor and Op-Rod Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	500 / 0.100	500 / 0.100	- / -	- / -	1,000 / 0.200
Engineering Support	0 / 5.053	- / 0.436	- / 0.050	- / 0.035	- / -	- / 0.035	- / 0.029	- / 0.029	- / 0.031	- / -	- / -	- / 5.663
Integrated Logistical Support	0 / 0.670	- / 0.050	- / 0.020	- / 0.020	- / -	- / 0.020	- / 0.020	- / 0.020	- / 0.020	- / -	- / -	- / 0.820
Fielding	0 / 0.889	- / 0.246	- / 0.020	- / 0.020	- / -	- / 0.020	- / 0.020	- / 0.020	- / 0.020	- / -	- / -	- / 1.235
Program Management Support	0 / 1.393	- / 0.400	- / 0.010	- / 0.010	- / -	- / 0.010	- / 0.010	- / 0.010	- / 0.010	- / -	- / -	- / 1.843
Subtotal: Recurring	- / 75.902	- / 2.483	- / 0.600	- / 0.585	- / -	- / 0.585	- / 0.629	- / 0.679	- / 0.681	- / -	- / -	- / 81.559
Subtotal: M249 Short Barrel/BFA/Coll Buttstock/Ext Op-Rod	42,768 / 75.902	3,429 / 2.483	1,269 / 0.600	1,260 / 0.585	- / -	1,260 / 0.585	1,395 / 0.629	1,760 / 0.679	1,760 / 0.681	- / -	- / -	53,641 / 81.559

Modification Item 3 of 4: Lightweight Ground Mount/ Drop-in Mount Cradle												
B Kits												
Recurring												
Hardware- Lightweight Ground Mount	5,609 / 32.137	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,609 / 32.137

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS						Modification Number / Title: GZ1290 / M249 SAW Machine Gun MODS			
Models of Systems Affected: M249 SAW Machine Gun				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
Hardware-Drop-in Mount Cradle	230 / 0.150	2,466 / 1.377	357 / 0.225	367 / 0.240	- / -	367 / 0.240	357 / 0.240	320 / 0.220	- / -	- / -	- / -	4,097 / 2.452	
Engineering Support	0 / 3.280	- / 0.305	- / 0.050	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.050	- / 0.090	- / -	- / -	- / 3.875	
Program Management Support	0 / 0.691	- / 0.310	- / 0.075	- / 0.075	- / -	- / 0.075	- / 0.075	- / 0.075	- / 0.065	- / -	- / -	- / 1.366	
Integrated Logistical Support	0 / 0.435	- / 0.050	- / -	- / 0.030	- / -	- / 0.030	- / 0.026	- / 0.030	- / 0.030	- / -	- / -	- / 0.601	
TACOM-MWO	0 / 0.573	- / 0.150	- / 0.100	- / 0.115	- / -	- / 0.115	- / 0.120	- / 0.125	- / 0.315	- / -	- / -	- / 1.498	
FAT	- / -	- / -	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	
<i>Subtotal: Recurring</i>	<i>- / 37.266</i>	<i>- / 2.192</i>	<i>- / 0.500</i>	<i>- / 0.510</i>	<i>- / -</i>	<i>- / 0.510</i>	<i>- / 0.511</i>	<i>- / 0.500</i>	<i>- / 0.500</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 41.979</i>	
<i>Subtotal: Lightweight Ground Mount/Drop-in Mount Cradle</i>	<i>5,839 / 37.266</i>	<i>2,466 / 2.192</i>	<i>357 / 0.500</i>	<i>367 / 0.510</i>	<i>- / -</i>	<i>367 / 0.510</i>	<i>357 / 0.511</i>	<i>320 / 0.500</i>	<i>- / 0.500</i>	<i>- / -</i>	<i>- / -</i>	<i>9,706 / 41.979</i>	
Modification Item 4 of 4: 200rd/Feedbox Spt Improvement Kit													
B Kits													
Recurring													
Hardware	0 / 9.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.800	
200 Rd Magazine	26,793 / 1.661	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26,793 / 1.661	
Slings	7,230 / 0.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7,230 / 0.534	
Feedbox Support Improvement Kit	50,618 / 2.819	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50,618 / 2.819	
Engineering Support	0 / 1.742	- / 0.173	- / 0.010	- / 0.009	- / -	- / 0.009	- / 0.009	- / -	- / -	- / -	- / -	- / 1.943	
Fielding	0 / 0.401	- / 0.076	- / 0.020	- / 0.020	- / -	- / 0.020	- / 0.020	- / -	- / -	- / -	- / -	- / 0.537	
Program Management Support	0 / 0.366	- / 0.100	- / 0.010	- / 0.010	- / -	- / 0.010	- / 0.010	- / -	- / -	- / -	- / -	- / 0.496	
<i>Subtotal: Recurring</i>	<i>- / 17.323</i>	<i>- / 0.349</i>	<i>- / 0.040</i>	<i>- / 0.039</i>	<i>- / -</i>	<i>- / 0.039</i>	<i>- / 0.039</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 17.790</i>	
<i>Subtotal: 200rd/Feedbox Spt Improvement Kit</i>	<i>84,641 / 17.323</i>	<i>- / 0.349</i>	<i>- / 0.040</i>	<i>- / 0.039</i>	<i>- / -</i>	<i>- / 0.039</i>	<i>- / 0.039</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>84,641 / 17.790</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>136,323 / 151.766</i>	<i>5,895 / 5.546</i>	<i>1,626 / 1.190</i>	<i>1,627 / 1.179</i>	<i>- / -</i>	<i>1,627 / 1.179</i>	<i>1,752 / 1.179</i>	<i>2,080 / 1.179</i>	<i>1,760 / 1.181</i>	<i>- / -</i>	<i>- / -</i>	<i>151,063 / 163.220</i>	
Installation													
Modification Item 1 of 4: M249 SAW Bipod	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 2 of 4: M249 Short Barrel/BFA/Coll Buttstock/Ext Op-Rod	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 3 of 4: Lightweight Ground Mount/ Drop-in Mount Cradle	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 4 of 4: 200rd/Feedbox Spt Improvement Kit	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS	Modification Number / Title: GZ1290 / M249 SAW Machine Gun MODS

Models of Systems Affected: M249 SAW Machine Gun	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											
Total												
Total Cost (Procurement + Support + Installation)	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS	Modification Number / Title: GZ1290 / M249 SAW Machine Gun MODS

Modification Item 1 of 4: M249 SAW Bipod

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 1	Production Leadtime (in Months):

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015	Oct 2016				
Delivery Dates	Oct 2014	Oct 2015	Oct 2016				

Installation Information

Method of Implementation: Installed by Troops

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	3,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,075
Out	3,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,075

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS	Modification Number / Title: GZ1290 / M249 SAW Machine Gun MODS

Modification Item 2 of 4: M249 Short Barrel/BFA/Coll Buttstock/Ext Op-Rod

Manufacturer Information

Manufacturer Name: Design West Technologies	Manufacturer Location: Tustin, CA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	
Delivery Dates	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	

Installation Information

Method of Implementation: Installed by Troops

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	22,409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22,409
Out	22,409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22,409

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS	Modification Number / Title: GZ1290 / M249 SAW Machine Gun MODS

Modification Item 3 of 4: Lightweight Ground Mount/Drop-in Mount Cradle

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019		
Delivery Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019		

Installation Information

Method of Implementation: Installed by Troops

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	4,438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,438
Out	4,438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,438

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1300 / M240 Medium Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing

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

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

Description:

The M240B/L Medium Machine Gun is an infantry version of the M240 Armored Machine Gun used to replace the M60 Series Machine Gun in Light Infantry, Mechanized Infantry, Armor, Rangers, Special Forces, and select Combat Engineer units. Since the initial fielding of the M240B, various system enhancements have been identified that further improve the use of this weapon system by increasing functionality and performance capabilities, while improving training capability. These include adopting a forward rail system to mount ancillary sighting/night vision equipment, an accessory ammunition pouch, a spare barrel bag to transport and store overheated barrels, and an improved Lightweight Ground Mount. Additional enhancements include improved bipod, sling, short barrel, improved barrel, combat ammo pack, improved hydraulic buffer, drop-in mount cradle, design modifications to the Lightweight Ground Mount, collapsible buttstock and Mounted Machine Gun Optic. These enhancements are applicable to both the M240B and M240L. M240L reduces the weight of the existing M240B by approximately 5 pounds.

The M197 Vehicle Mount is the current standard used to mount the M249 and M240B to most vehicle platforms. A system improvement (drop in mount cradle) adds a link/spent case deflector and ammo handling system to provide capability upgrades addressing issues that Soldiers have identified as shortcomings of the current system. The M192 is the primary ground mount for the M240B/L and M249 machineguns. Based on recent combat experience, improvements are required to address identified shortcomings in the design and to enhance operational performance.

Fielding of the M240H Machine Gun requires replacement/upgrade of the helicopter mounts/cradles to accommodate the replacement M240H. This upgrade enhances the performance of the armament subsystems the M240H is assigned to thereby increasing the overall survivability of the aircraft platform. Improved mounts are required to be fielded to both the UH-60 and CH-47 platforms.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992

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

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

P-1 Line Item Number / Title:
GZ1300 / M240 Medium Machine Gun MODS

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-3a	GZ1300 / M240 Series System Improvements (Increase Performance)			- / 28.296	- / 2.836	- / 8.424	- / 1.784	- / -	- / 1.784
P-40	Total Gross/Weapon System Cost			- / 28.296	- / 2.836	- / 8.424	- / 1.784	- / -	- / 1.784

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GZ1300 / M240 Series System Improvements (Increase Performance)			- / 1.931	- / 1.938	- / 1.966	- / 0.992	Continuing	Continuing
P-40	Total Gross/Weapon System Cost			- / 1.931	- / 1.938	- / 1.966	- / 0.992	Continuing	Continuing

*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 \$1.784 million supports the Active Army by purchasing system enhancements for the M240B/L Medium Machine Gun Weapon System. Systems enhancements have been identified by fielded units to further improve the reliability and functionality of this weapon system. These include improved lightweight bipods which production of the items allow for fielding to approximately 25 Infantry Brigade Combat Teams (IBCT), and the M197 Modification Work Order (MWO) Kit (drop-in mount cradle) that adds a link/spent case deflector and ammo handling system to provide capability upgrades addressing issues that Soldiers have identified as shortcomings of the current system. Continues support on the Collapsible buttstock, Improved Buffer, Improved Barrel, and M192 MWO Kit which, when provided, delivers a system improvement to this lightweight tripod. M240L reduces the Soldier's combat load while allowing easier handling and movement of the weapon.

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-3a, Individual Modification: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GZ1300 / M240 Medium Machine Gun MODS				Modification Number / Title: GZ1300 / M240 Series System Improvements				

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>)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing

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

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

Description:

The M240B/L Medium Machine Gun is an infantry version of the M240 Armored Machine Gun used to replace the M60 Series Machine Gun in Light Infantry, Mechanized Infantry, Armor, Rangers, Special Forces, and select Combat Engineer units. Since the initial fielding of the M240B, various system enhancements have been identified that further improve the use of this weapon system by increasing functionality and performance capabilities, while improving training capability. These include adopting a forward rail system to mount ancillary sighting/night vision equipment, an accessory ammunition pouch, a spare barrel bag to transport and store overheated barrels, and improvements for the Lightweight Ground Mount. Additional enhancements include improved bipod, sling, short barrel, improved barrel, combat ammo pack, improved hydraulic buffer, drop-in mount cradle, collapsible buttstock, and Mounted Machine Gun Optic. These enhancements are applicable to both the M240B and M240L. M240L reduces the weight of the existing M240B by approximately 5 pounds.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GZ1300 / M240 Medium Machine Gun MODS					Modification Number / Title: GZ1300 / M240 Series System Improvements			
Models of Systems Affected: M240 Medium Machine Gun				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
<i>Modification Item 1 of 1: M240 Series System Improvements</i>													
<i>B Kits</i>													
<i>Recurring</i>													
<i>Bipods</i>	4,700 / 2.600	2,070 / 1.407	700 / 0.452	673 / 0.416	- / -	673 / 0.416	820 / 0.519	688 / 0.447	2,107 / 1.402	800 / 0.521	Continuing	Continuing	
<i>Collapsible Buttstock</i>	5,700 / 4.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,700 / 4.400	
<i>Ti Adjustable Bipods</i>	- / -	- / -	8,000 / 4.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8,000 / 4.950	
<i>Improved Buffer</i>	34,196 / 9.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34,196 / 9.200	
<i>Improved Barrel</i>	4,400 / 3.520	- / -	725 / 0.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,125 / 4.390	
<i>M197 MWO Kit Drop-in Mount Cradle</i>	230 / 0.150	370 / 0.268	1,312 / 1.074	791 / 0.799	- / -	791 / 0.799	700 / 0.718	- / -	- / -	- / -	- / -	3,403 / 3.009	
<i>M192 Modification Work Order Kit</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,258 / 0.766	- / -	- / -	- / -	1,258 / 0.766	
<i>Engineering Support</i>	0 / 3.541	- / 0.405	- / 0.224	- / 0.183	- / -	- / 0.183	- / 0.180	- / 0.240	- / 0.130	- / 0.100	- / -	- / 15.003	
<i>Program Management Support</i>	0 / 0.850	- / 0.421	- / 0.566	- / 0.161	- / -	- / 0.161	- / 0.202	- / 0.285	- / 0.234	- / 0.242	- / -	- / 12.961	
<i>Integrated Logistical Support</i>	0 / 1.649	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.050	- / -	- / 12.299	
<i>Fielding</i>	0 / 2.386	- / 0.235	- / 0.188	- / 0.125	- / -	- / 0.125	- / 0.212	- / 0.100	- / 0.100	- / 0.079	- / -	- / 13.425	
<i>Subtotal: Recurring</i>	- / 28.296	- / 2.836	- / 8.424	- / 1.784	- / -	- / 1.784	- / 1.931	- / 1.938	- / 1.966	- / 0.992	Continuing	Continuing	
<i>Subtotal: M240 Series System Improvements</i>	49,226 / 28.296	2,440 / 2.836	10,737 / 8.424	1,464 / 1.784	- / -	1,464 / 1.784	1,520 / 1.931	1,946 / 1.938	2,107 / 1.966	800 / 0.992	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	49,226 / 28.296	2,440 / 2.836	10,737 / 8.424	1,464 / 1.784	- / -	1,464 / 1.784	1,520 / 1.931	1,946 / 1.938	2,107 / 1.966	800 / 0.992	Continuing	Continuing	
Installation													
<i>Modification Item 1 of 1: M240 Series System Improvements</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GZ1300 / M240 Medium Machine Gun MODS	Modification Number / Title: GZ1300 / M240 Series System Improvements

Modification Item 1 of 1: M240 Series System Improvements

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021

Installation Information

Method of Implementation: Installed by Troops

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1500 / Sniper Rifles Modifications
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	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>)	34.836	3.769	0.980	0.971	-	0.971	1.488	1.984	1.488	2.481	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	34.836	3.769	0.980	0.971	-	0.971	1.488	1.984	1.488	2.481	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	34.836	3.769	0.980	0.971	-	0.971	1.488	1.984	1.488	2.481	Continuing	Continuing

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

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

Description:

Program to procure modifications or conversions of sniper weapon and related system components, Advanced Sniper Accessory Kits (ASAK), M151 Spotting Scope System, Tactical Tripod Kit (TTK) components, combat optics, sophisticated laser range finders and ballistic compensating fire control systems. Initial buys of items to support or meet operational needs and lighten sniper load. It includes the procurement of rifle scope optics, spotting scopes, an accompanying Accessory Integrator Mounting kit (AIM), and improved capabilities including an enhanced Army common mil-radian reticle pattern to recognize and engage targets at longer ranges and lower light levels increasing hit probability. This program also provides improved ancillary equipment such as round counters, ballistic chronographs, Ballistic Weather Meter (BWM), light weight barrels, fire controls, muzzles with suppressors, other components, and support costs. The current army fleet of sniper weapons, consisting of the M14 Enhanced Battle Rifle (EBR) as interim Squad Designated Marksman weapon, the M110 Semi-Automatic Sniper System (SASS), the M2010 Enhanced Sniper Rifle (ESR), and the M107 Semi-Automatic Long Range Sniper Rifle (LRSR), require continuous upgrades to the weapon, components, and/or ancillary equipment. Sniper upgrades enhance sniper mission capability, effectiveness, and survivability by extending the sniper's influence through emerging technologies in perfecting ballistics with exacting hardware and precise calculations, reducing sniper team burden through decreased weight and enhanced ergonomics, portability, signature-reduction, faster more precise target reconnaissance, surveillance, and target acquisition (RSTA) and precision aiming with automated fire control systems. Upgrades also support sniper/spotter mission collaboration with information sharing of targets and better situational awareness.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.769	0.980	0.971	-	0.971	1.488	1.984	1.488	2.481
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.769	0.980	0.971	-	0.971	1.488	1.984	1.488	2.481

Justification:

FY 2017 Base procurement dollars in the amount of \$0.971 million supports the Active Army through procurement of weapon conversions using engineering change proposals (ECP's), modifications or upgrades and additional components to be included in Advanced Sniper Accessory Kits (ASAK) and M151 Spotting Scope System, such as the Ballistic Weather Meter (BWM) and the Accessory Integrator Mounting kit (AIM), respectively. Continued support for the M2010 Enhanced Sniper Rifle Modifications and the Squad Designated Marksman. These modifications and upgrades provide a more full-spectrum and versatile

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh		P-1 Line Item Number / Title: GZ1500 / Sniper Rifles Modifications
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>suite of sniper rifles that improves ergonomics, survivability, capability, and portability without sacrificing performance, accuracy and reliability. Efforts also include evaluation and/or validation of any proposed ECP's regarding fire control optics and any ancillary equipment enhancements that can include performing engineering studies to investigate the proposed enhancements and also to procure samples for evaluation.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GC0401 / M119 Modifications
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The M119A3 Towed Howitzer provides direct fire support for the Infantry Brigade Combat Teams (IBCT). Funding in the M119 Modifications budget supports the application of modernization system enhancements. Modifications to the howitzer include a Recoil System Capability Package, which will enhance survivability by replacing the Buffer and Recuperator in the recoil system and add suspension modifications. A Power System Modification will replace current system batteries to increase power output and cold temperature performance. The Training Devices modification products include M119A3 legacy desktop personal computer trainer, M119A3 desktop crew trainer, and M119A3 computer based trainer. The durability modification provides for modified spades on the howitzers.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	44.105	12.359	3.587	-	3.587	3.608	4.197	4.518
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.613	8.240	2.458	-	2.458	2.470	2.868	3.086
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh **P-1 Line Item Number / Title:** GC0401 / M119 Modifications

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-3a	GC0401 / M119 Modifications (Increase Performance)			- / 163.429	- / 172.718	- / 20.599	- / 6.045	- / -	- / 6.045
P-40	Total Gross/Weapon System Cost			- / 163.429	- / 172.718	- / 20.599	- / 6.045	- / -	- / 6.045

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	GC0401 / M119 Modifications (Increase Performance)			- / 6.078	- / 17.065	- / 17.604	- / 2.282	- / -	- / 285.820
P-40	Total Gross/Weapon System Cost			- / 6.078	- / 17.065	- / 17.604	- / 2.282	- / -	- / 285.820

*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 \$6.045 million supports the retrofit and composite fielding activities of previously purchased Recoil System Capability Package, Digital Fire Control System (DFCS), durability modification (Spades) for the howitzers and Training Devices. The previously purchased Recoil System Capability enhances the durability of the howitzer and addresses deficiencies in the legacy recoil system. The DFCS enhances system survivability and lethality through the ability to make tactical moves and acquire targets at a significantly higher rate than an optical fire control equipped weapon. The durability modification (Spades) increases the durability of the howitzer while decreasing weight. The Training Devices modification provides for Training Aids, Devices, Simulators and Simulations (TADSS) products for use in training artillerymen and maintainers in the field and at school houses. These products will greatly increase proficiency, safety and mission fire accuracy and are supported by the Army user community.

"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-3a, Individual Modification: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: GC0401 / M119 Modifications				Modification Number / Title: GC0401 / M119 Modifications				

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>)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Modifications to M119A2 Howitzer.

Mod 1 (Digitization): Procurement of the Digital Fire Control System is contracted separately for each major component, with various contract award dates. Application will occur in Battalion sets of 17 each over a two-month period.

Mod 2 (Recoil Capability Package): is for a new recoil system which will enhance the survivability of the M119. The recoil system upgrade will consist of the recoil buffer, recuperator, and suspension modification.

Mod 3 (TADSS): This modification is for the procurement of Training Aids, Devices, Simulators and Simulations (TADSS) for use in training artillerymen and maintainers in fielded units as well as in classroom instruction at school houses. Products will include M119A3 Legacy Desktop Personal Computer Trainer, M119A3 Desktop Crew Trainer, and M119A3 Computer Based Trainer.

Mod 4 (Power System): Power System Management Mod will procure a new power supply for the M119A3 Digital Fire Control System. The modification will increase system electrical power and meet system operating requirements for low temperature environments.

Mod 5 (Durability): Durability Mods will optimize the design of the spades on the M119 howitzer to increase durability and decrease weight.

Mod 6 (Retrofit and Composite Fielding Activities): Will retrofit current howitzer fleet with upgraded recoil capability package, Spades, and DFCS.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	44.105	12.359	3.587	-	3.587	3.608	4.197	4.518	1.382
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.613	8.240	2.458	-	2.458	2.470	2.868	3.086	0.900
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GC0401 / M119 Modifications					Modification Number / Title: GC0401 / M119 Modifications			
Models of Systems Affected: M119A2/A3 Howitzer				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
Modification Item 1 of 6: Digitization													
A Kits													
Recurring													
Integration Prod/Init Spares	431 / 111.150	71 / 22.347	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 133.497	
Logistics & Fielding	0 / 13.098	- / 3.785	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.883	
Program Management	0 / 9.805	- / 1.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.409	
System Engineering	0 / 15.876	- / 3.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.576	
Engineering Change Orders (ECO)	0 / 13.500	- / 2.223	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.723	
Subtotal: Recurring	- / 163.429	- / 33.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 197.088	
Subtotal: Digitization	431 / 163.429	71 / 33.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 197.088	
Modification Item 2 of 6: Recoil Capability Package													
A Kits													
Recurring													
Recoil System Upgrade	- / -	375 / 32.959	127 / 11.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 44.761	
Subtotal: Recurring	- / -	- / 32.959	- / 11.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.761	
Subtotal: Recoil Capability Package	- / -	375 / 32.959	127 / 11.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 44.761	
Modification Item 3 of 6: Training Devices (TADSS)													
A Kits													
Non-Recurring													
Training Devices	- / -	- / 1.100	- / 4.647	- / 3.845	- / -	- / 3.845	- / 3.878	- / 2.496	- / 2.688	- / -	- / -	- / 18.654	
Subtotal: Non-Recurring	- / -	- / 1.100	- / 4.647	- / 3.845	- / -	- / 3.845	- / 3.878	- / 2.496	- / 2.688	- / -	- / -	- / 18.654	
Subtotal: Training Devices (TADSS)	- / -	- / 1.100	- / 4.647	- / 3.845	- / -	- / 3.845	- / 3.878	- / 2.496	- / 2.688	- / -	- / -	- / 18.654	
Modification Item 4 of 6: Power System Management													
A Kits													
Non-Recurring													
Power System Mods	- / -	264 / 3.500	238 / 3.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 6.815	
Subtotal: Non-Recurring	- / -	- / 3.500	- / 3.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.815	
Subtotal: Power System Management	- / -	264 / 3.500	238 / 3.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 6.815	
Modification Item 5 of 6: Durability Modification (Spades)													
A Kits													
Recurring													

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20		P-1 Line Item Number / Title: GC0401 / M119 Modifications
		Modification Number / Title: GC0401 / M119 Modifications

Models of Systems Affected: M119A2/A3 Howitzer	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	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
	Qty (Each) / Total Cost (\$ M)											
Kit Quantity	- / -	98 / 1.500	53 / 0.835	- / -	- / -	- / -	- / -	165 / 2.414	186 / 2.765	- / -	- / -	502 / 7.514
<i>Subtotal: Recurring</i>	- / -	- / 1.500	- / 0.835	- / -	- / -	- / -	- / -	- / 2.414	- / 2.765	- / -	- / -	- / 7.514
<i>Subtotal: Durability Modification (Spades)</i>	- / -	98 / 1.500	53 / 0.835	- / -	- / -	- / -	- / -	165 / 2.414	186 / 2.765	- / -	- / -	502 / 7.514
Modification Item 6 of 6: Retrofit and Composite Fielding Activities												
A Kits												
Recurring												
Retrofit and Composite Fielding Activiti	- / -	- / -	- / -	- / 2.200	- / -	- / 2.200	- / 2.200	- / 2.155	- / 2.151	- / 2.282	- / -	- / 10.988
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.200	- / -	- / 2.200	- / 2.200	- / 2.155	- / 2.151	- / 2.282	- / -	- / 10.988
<i>Subtotal: Retrofit and Composite Fielding Activities</i>	- / -	- / -	- / -	- / 2.200	- / -	- / 2.200	- / 2.200	- / 2.155	- / 2.151	- / 2.282	- / -	- / 10.988
<i>Subtotal: Procurement, All Modification Items</i>	431 / 163.429	808 / 72.718	418 / 20.599	- / 6.045	- / -	- / 6.045	- / 6.078	165 / 7.065	186 / 7.604	- / 2.282	- / -	2,008 / 285.820
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications
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Modification Item 1 of 6: Digitization

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 11
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015						
Delivery Dates	Dec 2015						

Installation Information

Method of Implementation (Organic): Organic	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications
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Modification Item 2 of 6: Recoil Capability Package

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 2
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Apr 2015	Jan 2016					
Delivery Dates	Jun 2015	Mar 2016					

Installation Information

Method of Implementation (Organic): Organic	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications
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Modification Item 3 of 6: Training Devices (TADSS)

Manufacturer Information

Manufacturer Name: Organic	Manufacturer Location: Various
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Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 1
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021
Delivery Dates	Jul 2015	Jul 2016	Jul 2017	Jul 2018	Jul 2019	Jul 2020	Jul 2021

Installation Information

Method of Implementation (Organic): Organic	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications
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Modification Item 4 of 6: Power System Management

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 2
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Apr 2015	Jan 2016					
Delivery Dates	Jun 2015	Mar 2016					

Installation Information

Method of Implementation (Organic): Organic	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications
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Modification Item 5 of 6: Durability Modification (Spades)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 2
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Jan 2016			Jan 2019	Jan 2020	
Delivery Dates	May 2015	Mar 2016			Mar 2019	Mar 2020	

Installation Information

Method of Implementation (Organic): Organic	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications
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Modification Item 6 of 6: Retrofit and Composite Fielding Activities

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: Various
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 2
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021

Installation Information

Method of Implementation (Organic): Organic	Installation Quantity: 0
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UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: G02100 / Mortar Modification
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	17.238	-	17.238	-	-	-	-	-	28.605

Description:

Mortar System modifications for 60mm Light Weight M224A1, 81mm Light Weight M252A1, 120mm M120A1/M121 Mortar Weapon Systems, Aiming Posts and Lights (tritium free) for all mortar calibers, M191A1 bipod with integral pointing device mount improvement for the M120A1 towed mortar, and Range Indicators to include 60mm HE Enhanced Fragment (EF) M1061 markings and the M8A1 patrolling baseplate for the 60mm M224A1 mortar.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

P-1 Line Item Number / Title:
G02100 / Mortar Modification

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-3a	G02100 / Mortar Modification (Army Mortar Modernization)			- / -	- / 7.903	- / 6.300	- / 12.118	- / -	- / 12.118
P-40	Total Gross/Weapon System Cost			- / -	- / 7.903	- / 6.300	- / 12.118	- / -	- / 12.118

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	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-3a	G02100 / Mortar Modification (Army Mortar Modernization)			- / 7.738	- / 6.765	- / 5.258	- / -	- / -	- / 46.082
P-40	Total Gross/Weapon System Cost			- / 7.738	- / 6.765	- / 5.258	- / -	- / -	- / 46.082

*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 \$12.118 million supports the procurement of 303 M191A1 bipods to be used with the M120A1 towed mortar and 400 improved Handle and Firing Mechanisms (H&FM) for use with the M224A1 lightweight 60mm mortar; and the associated production and fielding supports. The mortar modification support funds are essential to meet US Army requirements to modernize mortar systems currently fielded to Infantry Brigade Combat Teams (IBCTs), Stryker Brigade Combat Teams (SBCTs), Armored Brigade Combat Teams (ABCTs), as well as the Special Forces Groups and Ranger Regiment.

The FY 2017 funding request was reduced by \$.603 million to account for the availability of prior year execution balances.

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-3a, Individual Modification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: G02100 / Mortar Modification	Modification Number / Title: G02100 / Mortar Modification
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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>)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082

(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 Thousands</i>)	-	-	-	17.238	-	17.238	-	-	-	-	-	28.605

Description:

Mortar System modifications for 60mm Light Weight M224A1, 81mm Light Weight M252A1, 120mm M120A1/M121 Mortar Weapon Systems, Aiming Posts and Lights (tritium free) for all mortar calibers, M191A1 bipod with integral pointing device mount improvement for the M120A1 towed mortar, and Range Indicators to include 60mm HE Enhanced Fragment (EF) M1061 markings and the M8A1 patrolling baseplate for the 60mm M224A1 mortar.

Justification:

FY 2017 Base procurement dollars in the amount of \$12.118 million supports the procurement of 303 M191A1 bipods to be used with the M120A1 towed mortar and 400 improved Handle and Firing Mechanisms (H&FM) for use with the M224A1 lightweight 60mm mortar; and the associated production and fielding supports. The mortar modification support funds are essential to meet US Army requirements to modernize mortar systems currently fielded to Infantry Brigade Combat Teams (IBCTs), Stryker Brigade Combat Teams (SBCTs), Armored Brigade Combat Teams (ABCTs), as well as the Special Forces Groups and Ranger Regiment.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: G02100 / Mortar Modification					Modification Number / Title: G02100 / Mortar Modification			
Models of Systems Affected: M224A1, M252A1, M120A1, M121				Modification Type: Army Mortar Modernization				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
Procurement													
<i>Modification Item 1 of 1:</i> Mortar Modification													
A Kits													
Recurring													
Aiming Post Lights	- / -	1,135 / 0.928	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,135 / 0.928	
Range Indicators	- / -	505 / 0.938	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	505 / 0.938	
M191A1 Bipods	- / -	60 / 1.800	303 / 5.850	303 / 6.238	- / -	303 / 6.238	34 / 1.123	- / -	- / -	- / -	- / -	700 / 15.011	
M224A1 H&FM MOD	- / -	- / -	- / -	400 / 1.900	- / -	400 / 1.900	400 / 1.700	400 / 1.700	362 / 1.539	- / -	- / -	1,562 / 6.839	
Engineering/Program Support	- / -	- / 0.362	- / 0.250	- / 1.480	- / -	- / 1.480	- / 1.805	- / 1.680	- / 2.658	- / -	- / -	- / 8.235	
PM-LTV Integration effort	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	- / 0.947	- / -	- / -	- / -	- / 1.947	
New Equipment Training	- / -	- / 0.465	- / 0.200	- / 1.400	- / -	- / 1.400	- / 1.490	- / 1.403	- / 0.461	- / -	- / -	- / 5.419	
Fielding / Install	- / -	- / -	- / -	- / 0.600	- / -	- / 0.600	- / 0.620	- / 0.635	- / 0.600	- / -	- / -	- / 2.455	
<i>Subtotal: Recurring</i>	- / -	- / 4.493	- / 6.300	- / 11.618	- / -	- / 11.618	- / 7.738	- / 6.365	- / 5.258	- / -	- / -	- / 41.772	
Non-Recurring													
M67 ECP	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / -	- / -	- / -	- / 0.400	
First Article Acceptance Testing	- / -	- / 0.250	- / -	- / 0.400	- / -	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / 0.650	
Tech Manuals	- / -	- / 0.100	- / -	- / 0.100	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / 0.200	
Bennet Labs Cannon Effort	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
New Cannon Inspection Method	- / -	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	
New Cannon Qual	- / -	- / 1.460	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.460	
<i>Subtotal: Non-Recurring</i>	- / -	- / 3.410	- / -	- / 0.500	- / -	- / 0.500	- / -	- / 0.400	- / -	- / -	- / -	- / 4.310	
<i>Subtotal: Mortar Modification</i>	- / -	1,700 / 7.903	303 / 6.300	703 / 12.118	- / -	703 / 12.118	434 / 7.738	400 / 6.765	362 / 5.258	- / -	- / -	3,902 / 46.082	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	1,700 / 7.903	303 / 6.300	703 / 12.118	- / -	703 / 12.118	434 / 7.738	400 / 6.765	362 / 5.258	- / -	- / -	3,902 / 46.082	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082	

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: G02100 / Mortar Modification	Modification Number / Title: G02100 / Mortar Modification
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Modification Item 1 of 1: Mortar Modification

Manufacturer Information

Manufacturer Name: TBS	Manufacturer Location: TBD
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Administrative Leadtime (<i>in Months</i>): 6	Production Leadtime (<i>in Months</i>): 10
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Jun 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	
Delivery Dates	Jun 2016	Nov 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	

Installation Information

Method of Implementation (Organic): Organic Install	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	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>)	197.277	2.089	3.737	3.157	-	3.157	3.462	3.468	3.489	3.521	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	197.277	2.089	3.737	3.157	-	3.157	3.462	3.468	3.489	3.521	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	197.277	2.089	3.737	3.157	-	3.157	3.462	3.468	3.489	3.521	Continuing	Continuing

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

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

Description:

This program procures modifications of small arms with a cost less than \$5.000 million to include the procurement of accessory components for individual weapons, crew served weapons, sniper weapons, handguns, shotguns, optics, protective lens coatings, mounting systems and mount improvements, bipods, tripods and tripod improvements/upgrades. Optic sights allow the Soldier to identify and engage targets at longer ranges more effectively than standard iron sights. Mounting systems provide a means to mount accessory components to weapons and mount weapon systems to platforms. The M197 Vehicle Mount is the current standard used to mount the M249 and M240B machine guns to most vehicle platforms. A system improvement will add a link/spent case deflector and ammo handling system to provide capability upgrades addressing issues that Soldiers have identified as shortcomings of the current system. This will be accomplished thru a Maintenance Work Order (MWO). Bipods and tripods are used to stabilize and maneuver a weapon to target. The M205 is a lightweight tripod for dismounted M2/M2A1/MK19 machine guns; it weighs 16 lbs (32%) less than the currently used M3 Tripod. The M192 is the primary ground mount for the M240B/L and M249 machine guns. Based on recent combat experience, improvements are required to address identified shortcomings in the design and to enhance operational performance. An engineering study will investigate these issues and provide design alternatives.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.089	3.737	3.157	-	3.157	3.462	3.468	3.489	3.521
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.089	3.737	3.157	-	3.157	3.462	3.468	3.489	3.521

Justification:

FY 2017 Base procurement dollars in the amount of \$3.157 million supports the Active Army by procuring 1,008 M197 Modification Work Order (MWO) Kits, completes the M192 Engineering Study, buys 274 M192 MWO kits to modify fielded system and initiates work on sight adapters for the M26 shotgun. The M197 MWO Kit will upgrade the existing M197 Vehicle Mounts to add a link/spent case deflector and ammo handling system. These upgrades provide capability improvements addressing issues that Soldiers have identified as shortcomings of the current system. The M192 MWO Kit delivers a system improvement to this lightweight tripod. Fielded in 2005, the M192 is no longer compatible with the various body armor designs fielded in recent years. The M192 MWO Kit addresses identified shortcomings in the design and provides increased height of the pintle as well as improved performance of the traversing and elevation mechanism.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh		P-1 Line Item Number / Title: GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

A New Start in FY2017 will be the procurement of sight adapters for the M26 shotgun. The sight adapters are shotgun accessory components that improve the aim point accuracy of the shotgun with the use of all non-lethal ammunitions.

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GL3200 / Items Less Than \$5.0m (WOCV-WTCV)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

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>)	125.972	1.604	2.848	2.331	-	2.331	2.295	2.616	2.949	2.978	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	125.972	1.604	2.848	2.331	-	2.331	2.295	2.616	2.949	2.978	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	125.972	1.604	2.848	2.331	-	2.331	2.295	2.616	2.949	2.978	Continuing	Continuing

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

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

Description:

Program provides for the procurement of standard and non-standard small arms to include auxiliary components such as combat optics, protective lens coatings for optics, fire controls, suppressors, powered/intelligent rails, weapon mounts/platforms, and adaptors to meet urgent needs or initial buys. Weapons and auxiliary components procured under this budget activity in prior years consist of MK48 Machine Guns, M9 Pistols and associated Basic Issue Items (BII), GO Pistols, M500 Mossberg Shotguns, M3 Multi-Role Anti-Armor Anti-Personnel Weapon System (MAAWS) and MP5KA Submachine Guns to include magazines, clamps, holsters, lanyards and cleaning kits. Funding will also purchase world class Olympic Grade marksmanship weapons and accessories to support the Army Marksmanship Unit (AMU) in maintaining and procuring the specialized target rifles, pistols and accessories: Air Rifles, 22 caliber Pistols, Shooting glasses and scopes, Free Pistols, Shot Guns and bolt action rifles.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.604	2.848	2.331	-	2.331	2.295	2.616	2.949	2.978
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.604	2.848	2.331	-	2.331	2.295	2.616	2.949	2.978

Justification:

FY 2017 Base procurement dollars in the amount of \$2.331 million supports the Active Army by providing funding for stand-alone shotguns, Pistols, associated BII, fieldings, and other enhanced capabilities. The funding also supports the Army Marksmanship Unit (AMU). The AMU competes worldwide on a regular basis. The man/weapon interface at this competitive level is important. Between competitions the AMU fires constantly to hone their skills and maintain their competitive edge. Weapons of all types are fired, and even with the extremely high level of maintenance provided, these weapons exceed their stated effective life projections faster. This requires the weapons to be coded out and replaced regularly. Funding will also provide for the procurement and training of various Non-Standard Weapons to support the regionally engaged Active Army. These weapons are required to facilitate training of US Army units on host nation weapon systems prior to deployment in support of regionally aligned force missions.

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-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities		P-1 Line Item Number / Title: GL3200 / Items Less Than \$5.0m (WOCV-WTCV)
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GC0050 / Production Base Support (WOCV-WTCV)
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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>)	457.314	8.911	9.027	-	-	-	0.992	3.313	3.376	3.471	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	457.314	8.911	9.027	-	-	-	0.992	3.313	3.376	3.471	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	457.314	8.911	9.027	-	-	-	0.992	3.313	3.376	3.471	Continuing	Continuing

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

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

Description:

This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities and equipment used in production and production testing of Weapons and Tracked Combat Vehicles and their components. The program also provides for the preserving, storing and disposing of facilities and equipment that are either not required for current active production or are not needed by the Army. Provisioning of Industrial Facilities (PIF) occurs at Aberdeen Test Center, MD; White Sands Missile Range, NM; Yuma Proving Grounds, AZ; Rock Island Arsenal, IL; Watervliet Arsenal, NY; and General Dynamics- Ordnance and Tactical Systems (GD-OTS), Saco, ME. The Layaway of Industrial Facilities (LIF) funding support necessary or unique equipment at arsenals.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.911	9.027	-	-	0.992	3.313	3.376	3.471
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.911	9.027	-	-	0.992	3.313	3.376	3.471

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GC0050 / Production Base Support (WOCV-WTCV)
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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)					
P-40a	GC2001 / PIF2 OMNIBUS (WOCV-WTCV)			- / 319.449	- / 8.292	- / 8.398	- / -	- / -	- / -
P-40a	GC2100 / LAYAWAY OF INDUSTRIAL FACILITIES			- / 137.865	- / 0.619	- / 0.629	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 457.314	- / 8.911	- / 9.027	- / -	- / -	- / -

*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:
 There is no FY 2017 funding.

"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: 2033A / 02 / 30 **P-1 Line Item Number / Title:** GC0050 / Production Base Support (WOCV-WTCV) **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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
PIF2 OMNIBUS (WOCV-WTCV)																				
GC2001 / PIF2 OMNIBUS (WOCV-WTCV)			-	-	319.449	-	-	8.292	-	-	8.398	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
Army				-	-		-	8.292		-	8.398		-	-		-	-		-	
GC2100 / LAYAWAY OF INDUSTRIAL FACILITIES			-	-	137.865	-	-	0.619	-	-	0.629	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
Army				-	-		-	0.619		-	0.629		-	-		-	-		-	
Subtotal: PIF2 OMNIBUS (WOCV-WTCV)			-	-	457.314	-	-	8.911	-	-	9.027	-	-	-	-	-	-	-	-	
Total			-	-	457.314	-	-	8.911	-	-	9.027	-	-	-	-	-	-	-	-	

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

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GC0075 / Industrial Preparedness
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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>)	121.002	0.414	0.304	-	-	-	-	-	-	-	-	121.720
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	121.002	0.414	0.304	-	-	-	-	-	-	-	-	121.720
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	121.002	0.414	0.304	-	-	-	-	-	-	-	-	121.720

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program provides for Maintenance of Laid-away Industrial Facilities (MLIF), the maintenance of laid away portions of active weapons production plants, and the storage, protection, and maintenance of laid away Government-owned equipment being stored on-site at Government-owned plants. The funding represents the storage costs for laid away production items from Watervliet Arsenal (WVA) and Rock Island Arsenal (RIA). The funds also pay for storage, facilities/equipment maintenance, and inspection of Industrial Plant Equipment (IPE), laid away machine tools, gages, special measuring equipment, tooling and fixturing stored at WVA and RIA.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.414	0.304	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.414	0.304	-	-	-	-	-	-

Justification:

There is no FY 2017 funding.
 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-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GC0076 / Small Arms Equipment (Soldier Enh Prog)
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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>)	107.624	1.682	2.392	3.155	-	3.155	3.122	3.283	3.349	3.417	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	107.624	1.682	2.392	3.155	-	3.155	3.122	3.283	3.349	3.417	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	107.624	1.682	2.392	3.155	-	3.155	3.122	3.283	3.349	3.417	Continuing	Continuing

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

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

Description:

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 WTCV funding provides the means of procuring lighter, more lethal infantry weapons and various types of equipment designed to increase Soldiers' survivability and lethality.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.682	2.392	3.155	-	3.155	3.122	3.283	3.349	3.417
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.682	2.392	3.155	-	3.155	3.122	3.283	3.349	3.417

Justification:

FY 2017 Base procurement dollars in the amount of \$3.155 million procures approved COTS, GOTS and NDIs hardware that include small arms, individual and crew served weapons, components, sights, and accessories for the purpose of Soldier evaluation.

"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."