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

February 2016



Army

Justification Book of

Procurement of W&TCV, Army

UNCLASSIFIED

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.

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

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 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

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

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

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

Total Obligational Authority 27 Jan 2016
(Dollars in Thousands)

Appropriation: 2033A Procurement of W&TCV, Army

### Budget Activity 01: Tracked Combat Vehicles Tracked Combat Vehicle 1 Stryker Vehicle 1 Stryker Vehicle 2 Stryker (MOD) A 39,683 74,085 314,300 388 3 Stryker Upgrade A 305,743 38 106,300 38 412 4 Fist Vehicle (MOD) 5 Bradley Program (MOD) A 136,006 210,042 210 6 Howitzer, Med Sp Ft 155mm M109a6 (MOD) A 45,411 57,879 57 7 Faladin Integrated Management (PIM) A 18 247,400 30 273,850 30 273 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 10 Assault Breacher Vehicle A 7 36,088 2,975 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33	Line		Ident		FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		
Tracked Combat Vehicle 1 Stryker Vehicle 435,110 177,345 177 Modification of Tracked Combat Vehicles 2 Stryker (MOD) A 39,683 74,085 314,300 388 3 Stryker Upgrade A 39,683 74,085 314,300 38 412 4 Fist Vehicle (MOD) 5 Bradley Program (MOD) A 136,006 210,042 210 6 Howitzer, Med Sp Ft 155mm M109a6 (MOD) A 45,411 57,879 7 Paladin Integrated Management (PIM) A 18 247,400 30 273,850 30 273 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 2,968 2,461 2 10 Assault Breacher Vehicle A 7 36,088 2,975 2 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430				_	-	~	•	-		Quantity	Cost	- -	
1 Stryker Vehicle 435,110 177,345 177 Modification of Tracked Combat Vehicles 2 Stryker (MOD) A 39,683 74,085 314,300 388 3 Stryker Upgrade A 305,743 38 106,300 38 412 4 Fist Vehicle (MOD) 26,759 5 Bradley Program (MOD) A 136,006 210,042 210 6 Howitzer, Med Sp Ft 155mm M109a6 (MOD) A 45,411 57,879 57 7 Paladin Integrated Management (PIM) A 18 247,400 30 273,850 30 273 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 2,968 2,461 2 10 Assault Breacher Vehicle A 7 36,088 2,975 2 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430													
Modification of Tracked Combat Vehicles 2 Stryker (MOD) A 39,683 74,085 314,300 388 3 Stryker Upgrade A 305,743 38 106,300 38 412 4 Fist Vehicle (MOD) A 136,006 210,042 210 6 Howitzer, Med Sp Ft 155mm M109a6 (MOD) A 45,411 57,879 57 7 Paladin Integrated Management (PIM) A 18 247,400 30 273,850 30 273 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 10 Assault Breacher Vehicle A 7 36,088 2,975 11 M88 FOV MODS A 1,975 14,878 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	racke	d Combat Vehicles											
2 Stryker (MOD) A 39,683 74,085 314,300 388 3 Stryker Upgrade A 26,759 5 Bradley Program (MOD) A 136,006 C 210,042 C 57,879 Feladin Integrated Management (PIM) A 18 247,400 S 187,879 Faladin Integrated Management (PIM) A 18 247,400 C 2,968 C 2,461 C 38,759 1 M88 FOV MODS A 1,975 A 36,088 A 1,975 A 39,362 A 39,362 A 390,939 A 40,000 A 388 A 314,300 A 314,200 A 314,20	1 Str	yker Vehicle			435,110		177,345			•	177,345	U	
3 Stryker Upgrade A 305,743 38 106,300 38 412 4 Fist Vehicle (MOD) 26,759 5 Bradley Program (MOD) A 136,006 210,042 210 6 Howitzer, Med Sp Ft 155mm M109a6 (MOD) A 45,411 57,879 7 Paladin Integrated Management (PIM) A 18 247,400 30 273,850 30 273 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 2,968 2,461 2 10 Assault Breacher Vehicle A 7 36,088 2,975 2 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	1odifi	cation of Tracked Combat Vehicles											
4 Fist Vehicle (MOD) 5 Bradley Program (MOD) A 136,006 210,042 210 6 Howitzer, Med Sp Ft 155mm M109a6 (MOD) A 45,411 57,879 57 7 Paladin Integrated Management (PIM) A 18 247,400 30 273,850 30 273 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 2 2,968 2,461 2 3461 2 10 Assault Breacher Vehicle A 7 36,088 2,975 1 M88 FOV MODS A 1,975 14,878 1 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	2 Str	yker (MOD)	A		39,683		74,085		314,300		388,385	U	
5 Bradley Program (MOD) A 136,006 210,042 210 6 Howitzer, Med Sp Ft 155mm M109a6 (MOD) A 45,411 57,879 57 7 Paladin Integrated Management (PIM) A 18 247,400 30 273,850 30 273 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 2 2,968 2,461 2 2 10 Assault Breacher Vehicle A 7 36,088 2,975 2 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	3 Str	yker Upgrade	A				305,743	38	106,300	38	412,043	Ü	
6 Howitzer, Med Sp Ft 155mm M109a6 (MOD) A 45,411 57,879 7 Paladin Integrated Management (PIM) A 18 247,400 30 273,850 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 2,968 2,461 2 10 Assault Breacher Vehicle A 7 36,088 2,975 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	4 Fist	t Vehicle (MOD)			26,759							Ū	
7 Paladin Integrated Management (PIM) A 18 247,400 30 273,850 30 273 8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 2,968 2,461 2 10 Assault Breacher Vehicle A 7 36,088 2,975 2 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	5 Bra	dley Program (MOD)	А		136,006		210,042				210,042	Ū	
8 Improved Recovery Vehicle (M88A2 Hercules) A 36 122,451 47 187,129 47 187 9 Assault Bridge (Mod) 2,968 2,461 2 10 Assault Breacher Vehicle A 7 36,088 2,975 2 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	6 How:	ritzer, Med Sp Ft 155mm M109a6 (MOD)	А		45,411		57,879				57,879	υ	
9 Assault Bridge (Mod) 2,968 2,461 2 10 Assault Breacher Vehicle A 7 36,088 2,975 2 11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	7 Pala	adin Integrated Management (PIM)	A	18	247,400	. 30	273,850			30	.273,850	Ū	
10 Assault Breacher Vehicle A 7 36,088 2,975 11 M88 FOV MODS A 1,975 14,878 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	8 Imp:	roved Recovery Vehicle (M88A2 Hercules)	А	36	122,451	47	187,129			47	187,129	U	
11 M88 FOV MODS A 1,975 14,878 14 12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	9 Ass	ault Bridge (Mod)			2,968		2,461				2,461	Ū	
12 Joint Assault Bridge A 5 39,362 3 33,455 3 33 13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	lo Assa	ault Breacher Vehicle	A	7	36,088		2,975				2,975	U	
13 M1 Abrams Tank (MOD) A 237,023 390,939 40,000 430	L1 M88	FOV MODS	A		1,975		14,878				14,878	U	
15 M2 ADICAMS TOTAL (POD)	l2 Joi:	nt Assault Bridge	А	5	39,362	3	33,455			3	33,455	U	
14 Abrams Upgrade Program A 6 120,000	13 M1 I	Abrams Tank (MOD)	A		237, 023		390,939		40,000		430,939	U	
	4 Abr	ams Upgrade Program	A	6	120,000							U	
Support Equipment & Facilities	Juppor	t Equipment & Facilities											
15 Floadce for base Support (lev wiev)	i5 Prod	eduction Base Support (TCV-WTCV)					6,129				6,129	U	
Total Tracked Combat Vehicles 1,496,714 1,736,910 460,600 2,197	otal T:	racked Combat Vehicles					1,736,910		460,600		2,197,510	-	

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	Ident	FY 2017 Base		FY 2017 OCO		FY 2017 Total		s e	
No Item Nomenclature	Code	Quantity	/ Cost	Quantity	Cost	Quantity			
Budget Activity 01: Tracked Combat Vehicles									
Tracked Combat Vehicles									
1 Stryker Vehicle			71,680				71,680	υ	
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)						•		υ	
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	Ū	
9 Assault Bridge (Mod)			3,465		5,950		9,415	σ	
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 Ml 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	•	

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) Quantity Cost	FY 2016 Base Enacted Quantity Cost	FY 2016 OCO Enacted Quantity Cost	FY 2016 Total Enacted Quantity Cost	S e c
Budget Activity 02: Weapons and Other Combat Vehi	cles					
Weapons & Other Combat Vehicles						
16 Integrated Air Burst Weapon System Family	A					ប
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	Ū
24 M4 Carbine Mods	Α .	7,735	27,566		27,566	U
25 M2 50 Cal Machine Gun Mods	В	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	Ŭ

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

ional Authority 27 Jan 2016

Appropriation: 2033A Procurement of W&TCV, Army

Line		Ident	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e	
No	Item Nomenclature	Code	Quantity	Cost	Quantity	Cost	Quantity	Cost		
Budge	et Activity 02: Weapons and Other Combat Vehi	cles								
Weap	pons & Other Combat Vehicles									
16	Integrated Air Burst Weapon System Family	Α .		9,764				9,764	U	
17 1	Mortar Systems			8,332		22,410		30,742	U	
18 2	XM320 Grenade Launcher Module (GLM)	A		3,062				3,062	U	
19 (Compact Semi-Automatic Sniper System	A		992				992	U	
20 (Carbine	A	4	40,493				40,493	U	
21 (Common Remotely Operated Weapons Station		;	25,164				25,164	ប	
Mod	of Weapons and Other Combat Veh									
22 1	MK-19 Grenade Machine Gun Mods	•		4,959				4,959	U	
23 1	M777 Mods	A]	11,913				11,913	U	
24 1	M4 Carbine Mods	A	, 2	29,752				29,752	υ	
25 1	M2 50 Cal Machine Gun Mods	В	4	18,582				48,582	U	
26 1	M249 Saw Machine Gun Mods			1,179				1,179	U	
27 I	M240 Medium Machine Gun Mods	A		1,784				1,784	U	
28 8	Sniper Rifles Modifications			971				971	U	
29 1	M119 Modifications	A		6,045				6,045	· U	
30 1	Mortar Modification	A	1	12,118				12,118	U	
31 N	Modifications Less Than \$5.0m (WOCV-WTCV)			3,157				3,157	U	
Supp	port Equipment & Facilities									
32	Items Less Than \$5.0m (WOCV-WTCV)			2,331				2,331	U	

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

	•	FY 2015	FY 2016	FY 2016	FY 2016	
Line	Ident	(Base & OCO)	Base Enacted	OCO Enacted	Total Enacted	е
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost	C
						<u> </u>
33 Production Base Support (WOCV-WTCV)		8,911	9,027		9,027	υ
34 Industrial Preparedness		414	304		304	U
35 Small Arms Equipment (Soldier Enh Prog)		1,682	2,392		2,392	υ
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	

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

		FY 2017		FY 20		FY 2017		s	
Line No Item Nomenclature	Ident Code	Base Quantity Cost		OCO Ouantity Cost		Total Ouantity Cost		e c	
Tell Nonelle Later		Quantity						-	
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		2	13,753		22,410		236,163		
Total Procurement of W&TCV, Army		2,2	65,177	1	53,544	2,4	118,721		

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

Appropriation 2033A: Procurement of W&TCV, Army

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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	
12	01	20	GZ3001	Joint Assault Bridge	120
13	01	20	GA0700	M1 Abrams Tank (MOD)	
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15	01	30	GA0050	Production Base Support (TCV-WTCV)	151

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Appropriation 2033A: Procurement of W&TCV, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
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18	02	10	G01501	XM320 Grenade Launcher Module (GLM)	169
19	02	10	G01507	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	178
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28	02	20	GZ1500	Sniper Rifles Modifications	. 256
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30	02	20	G02100	Mortar Modification	269
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Army • President's Budget Submission FY 2017 • Procurement

Appropriation 2033A: Procurement of W&TCV, Army

Line #	ВА	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

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: G85100 / Stryker Vehicle

Tracked Combat Vehicles

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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	14,542.789	435.110	177.345	71.680	-	71.680	-	-	-	-	150.621	15,377.545
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	14,542.789	435.110	177.345	71.680	-	71.680	-	-	-	-	150.621	15,377.545
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	14,542.789	435.110	177.345	71.680	-	71.680	-	-	-	-	150.621	15,377.545
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

UNCLASSIFIED LI G85100 - Stryker Vehicle Page 1 of 6 P-1 Line #1 Army

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: G85100 / Stryker Vehicle

Tracked Combat Vehicles

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

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	435.110	177.345	71.680	-	71.680	-	-	-	-

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LI G85100 - Stryker Vehicle Army

2

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: G85100 / Stryker Vehicle

Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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		Α	- / 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	- 1 -	- / 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.

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LI G85100 - Stryker Vehicle Army

P-1 Line #1

3

Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 10

Date: February 2016

Item Number / Title [DODIC]:
G85100 / Stryker Vehicle

G85100 / Stryker Vehicle

ID Code (A=Service Ready, B=Not Service Ready): A		N	IDAP/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	435.11	0 177.345	71.680	-	71.680
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	14,542.789	435.11	0 177.345	71.680	-	71.680
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	14,542.789	435.11	0 177.345	71.680	-	71.680
(The following Resource Summary rows are for information	onal purposes only. The corre	esponding budget reque	sts are documented elsewhe	re.)		
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.

	F	Prior Years	3	FY 2015		FY 2016			FY	' 2017 Bas	se	FY	1 2017 OC	0	F۱	/ 2017 Tot	tal	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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LI G85100 - Stryker Vehicle Army

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.

	F	Prior Year	S		FY 2015		FY 2016			F۱	/ 2017 Bas	se	FY	2017 OC	0	FY	2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Basic Issue Items (BII)	-	-	11.044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Government Test	-	-	195.584	-	-	5.900	-	-	4.241	-	-	0.811	-	-	-	-	-	0.8
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	-	-	-	-	-	21.33
Program Management Support (Contractor)	-	-	48.935	-	-	11.186	-	-	-	-	-	-	-	-	-	-	-	-
Logistics Engineer Support (Contractor)	-	-	235.026	-	-	6.970	-	-	24.728	-	-	25.499	-	-	-	-	-	25.49
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	-	-	-	-	-	10.5
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	-	-	-	-	-	13.4
DVH Full Material Release	-	-	0.246	-	-	11.000	-	-	-	-	-	-	-	-	-	-	-	
Survivability Enhancements	-	-	9.430	-	-	-	-	-	9.843	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14,542.787	-	-	435.110	-	-	177.345	-	-	71.680	-	-	-	-	-	71.68
ubtotal: Flyaway Cost	-	_	14,542.787	-	-	435.110	_	_	177.345	-	_	71.680	_	-	_	_	_	71.6

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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 10

Date: February 2016

Item Number / Title [DODIC]:

G85100 / Stryker Vehicle

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.

Troto: Gastotale of Totale	=/		01 00 0/1001 0		,													
	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	14,542.789	-	-	435.110	-	-	177.345	-	-	71.680	-	-	-	-	-	71.680

Secondar	y 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

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GM0100 / Stryker (Mod)

Modification of Tracked Combat Vehicles

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

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Item MDAP/MAIS Code(s): N/A 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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	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 Sumi	mary rows are fo	or informational p	urposes only. Ti	he corresponding	g budget request	ts are documente	ed elsewhere.)		*		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Secondar	y 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

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P-1 Line #2

LI GM0100 - Stryker (Mod) Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GM0100 / Stryker (Mod)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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 CE		Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
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	- 1 -	- / 74.348
	Exhibits Schedule		FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits CE		Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
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.

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

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

2033A / 01 / 20			GM	0100 / Stryl	ker (Mod)				GM0100) / STRYKE	R MODIFIC	AHON
	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	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 Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request:	s are documente	ed elsewhere.)			<u>'</u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

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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LI GM0100 - Stryker (Mod)
Army

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P-1 Line #2

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
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(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).

Seconda	ary 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

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P-1 Line #2

Exhibit P-3a, Individual Modification: PB 2017 ArmyDate: February 2016Appropriation / Budget Activity / Budget Sub Activity:
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GM0100 / STRYKER MODIFICATION

2033A / 01 / 20			GM0100 /	Stryker (M	lod)				GM0100 /	STRYKER	R MODIFIC	ATION
Models of Systems Affected: VARIOUS		Modifi	cation Typ	e: Increas	e Performa	ance	Re	lated RDT	&E PEs:			
Financial Plan	Prior Years Qty (Each) /	FY 2015 Qty (Each) I	FY 2016 Qty (Each) I	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018 Qty (Each) I	FY 2019 Qty (Each) /	FY 2020 Qty (Each) I	FY 2021 Qty (Each) I	To Complete	Total Qty (Each) I
Procurement	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ IM)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ IV
Modification Item 1 of 13: Mobile Gun System (MGS) Full Materiel Release(FMR)												
A Kits												
Recurring												
Hardware	573 / 30.350	- 1 -	175 / 0.413	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	748 / 30.76
Subtotal: Recurring	- /30.350	- / -	- /0.413	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /30.76
Non-Recurring	<u> </u>								'			
Engineer Support	0 / 8.697	- / 1.318	- /1.494	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 11.509
Test	0 / 1.676	- / 0.269	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /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 / 44.21
Modification Item 2 of 13: Fleet Modifications	1											
A Kits												
Recurring												
Hardware	2,890 / 32.420	81 <i>I</i> 3.785	6,786 / 10.367	304 / 2.589	- 1 -	304 / 2.589	1,610 / 20.311	289 / 2.300	- 1 -	- 1 -	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	- /501.32
Non-Recurring	1											
Engineer Support	0 /7.639	- /3.262	- /4.451	- /5.969	- 1 -	- /5.969	- / 1.640	- 1 -	- 1 -	- 1 -	- / 137.435	- / 160.396
Test	0 / 2.157	- /0.783	- / 6.850	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 58.637	- / 68.427
Training	- 1 -	- 1 -	- / 0.270	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 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	15,695 732.03
Modification Item 3 of 13: Video Display Electronic Terminal (VDET)												
A Kits												
Recurring												
Hardware	664 / 19.012	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	664 / 19.012
Subtotal: Recurring	- /19.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /19.01
Non-Recurring	1											
Engineer Support	0 / 0.043	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.043
Test	0 / 0.136	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.136

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GM0100 / STRYKER MODIFICATION

2033A 7 01 7 20			GM01007	• ti j	/					STRYKER		_
Models of Systems Affected: VARIOUS		Modifi	cation Typ	oe: Increas	e Performa	ince	Re	lated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ I								
Subtotal: Non-Recurring	- /0.179	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /0.1
Subtotal: Video Display Electronic Terminal (VDET)	664 / 19.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	664 / 19.1
Modification Item 4 of 13: C4I Obsolescence and Next Generation Items												
A Kits												
Recurring												
Hardware	233 / 10.526	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3,735 / 94.951	3,968 / 105.4
Fielding	0 / 0.166	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- /1.497	- /1.6
Subtotal: Recurring	- /10.692	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /96.448	- /107.1
Non-Recurring												
Engineer Support	0 / 12.631	- / 6.358	- / 1.353	- /5.020	- 1 -	- /5.020	- / 0.050	- 1 -	- 1 -	- 1 -	- / 229.231	- / 254.6
Test	0 / 0.189	- 1 -	- / 0.100	- / 0.102	- 1 -	- / 0.102	- / 0.104	- 1 -	- 1 -	- 1 -	- /4.465	- /4.9
Subtotal: Non-Recurring	- /12.820	- /6.358	- /1.453	- /5.122	- / -	- /5.122	- /0.154	- / -	- / -	- / -	- /233.696	- /259.6
Subtotal: C4I Obsolescence and Next Generation Items	233 / 23.512	- /6.358	- /1.453	- /5.122	- / -	- /5.122	- /0.154	- / -	- / -	- / -	3,735 / 330.144	3,968 / 366.7
Modification Item 5 of 13: Block Mod Retrofit												
A Kits												
Recurring												
Hardware	2,336 / 24.918	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	, 1	
Subtotal: Recurring	- /24.918	- / -	- / -	- / -							- 1 -	2,336 / 24.9
Subtotal: Block Mod Retrofit			, -		- / -	- / -	- / -	- / -	- / -	- / -	- / -	-
	2,336 / 24.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		2,336 / 24.9° - / 24.9° 2,336 / 24.9°
Modification Item 6 of 13: Test Fleet Maintenance	2,336 / 24.918	- / -									- / -	- /24.9
Modification Item 6 of 13: Test Fleet Maintenance A Kits	2,336 / 24.918	- / -									- / -	- /24.9
	2,336 / 24.918	- / -									- / -	- /24.9
A Kits	2,336 / 24.918	- / -									- / -	- /24.9 2,336/24.9
A Kits Recurring			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /24.9 2,336/24.9 - /115.8
A Kits Recurring Labor (Contractor)	0 /9.111	- /4.611	- / -	- / -	- / -	- /8.090	- / -	- / -	- / -	- / -	- / - - / -	- / 24.9 2,336 / 24.9 - / 115.8 - / 115.8
A Kits Recurring Labor (Contractor) Subtotal: Recurring	0 /9.111	- /4.611 - /4.611	- / - - /6.649 - /6.649	- / - - /8.090 - /8.090	- / -	- / 8.090 - /8.090	- / - - /8.265 - /8.265	- / - - /2.699 - /2.699	- / - - /2.799 - /2.799	- / - - /2.855 - /2.855	- / - - / - - /70.754	- /24.9
A Kits Recurring Labor (Contractor) Subtotal: Recurring Subtotal: Test Fleet Maintenance Modification Item 7 of 13: Retrofit Planning and Site	0 /9.111	- /4.611 - /4.611	- / - - /6.649 - /6.649	- / - - /8.090 - /8.090	- / -	- / 8.090 - /8.090	- / - - /8.265 - /8.265	- / - - /2.699 - /2.699	- / - - /2.799 - /2.799	- / - - /2.855 - /2.855	- / - - / - - /70.754	- / 24.9 2,336 / 24.9 - / 115.8: - / 115.8:
A Kits Recurring Labor (Contractor) Subtotal: Recurring Subtotal: Test Fleet Maintenance Modification Item 7 of 13: Retrofit Planning and Site Management	0 /9.111	- /4.611 - /4.611	- / - - /6.649 - /6.649	- / - - /8.090 - /8.090	- / -	- / 8.090 - /8.090	- / - - /8.265 - /8.265	- / - - /2.699 - /2.699	- / - - /2.799 - /2.799	- / - - /2.855 - /2.855	- / - - / - - /70.754	- / 24.9 2,336 / 24.9 - / 115.8: - / 115.8:
A Kits Recurring Labor (Contractor) Subtotal: Recurring Subtotal: Test Fleet Maintenance Modification Item 7 of 13: Retrofit Planning and Site Management A Kits	0 /9.111	- /4.611 - /4.611	- / - - /6.649 - /6.649	- / - - /8.090 - /8.090	- / -	- / 8.090 - /8.090	- / - - /8.265 - /8.265	- / - - /2.699 - /2.699	- / - - /2.799 - /2.799	- / - - /2.855 - /2.855	- / - - / - - /70.754	- /24.9 2,336/24.9 - /115.8: - /115.8:
A Kits Recurring Labor (Contractor) Subtotal: Recurring Subtotal: Test Fleet Maintenance Modification Item 7 of 13: Retrofit Planning and Site Management A Kits Recurring	0 /9.111 - /9.111 0 /9.111	- /4.611 - /4.611 - /4.611	- / - - /6.649 - /6.649	- / - - /8.090 - /8.090	- / - - / - - / -	- / 8.090 - /8.090 - /8.090	- / - - /8.265 - /8.265	- / - - /2.699 - /2.699	- / - - /2.799 - /2.799 - /2.799	- / - - /2.855 - /2.855 - /2.855	- / - - / - - 170.754 - /70.754	- / 24.9 2,336 / 24.9 - / 115.8: - / 115.8:

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Appropriation / Budget Activity / Budget Sub Activity:
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Modification Number / Title:
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GM0100 / STRYKER MODIFICATION

2033A / 01 / 20			GM0100 /	Stryker (M	lod)				GM0100 /	STRYKER	MODIFIC	ATION
Models of Systems Affected: VARIOUS	S	Modifi	ication Typ	oe: Increas	e Performa	ance	Re	lated RDT	&E PEs:			
	Prior Years Qty (Each) I	FY 2015 Qty (Each) I	FY 2016 Qty (Each) I	FY 2017 Base	FY 2017 OCO Qty (Each) I	FY 2017 Total	FY 2018 Qty (Each) I	FY 2019 Qty (Each) I	FY 2020 Qty (Each) I	FY 2021 Qty (Each) I	To Complete	Total
Financial Plan							Total Cost (\$ M)	Total Cost (\$ M)				
Modification Item 8 of 13: Training Aids, Devices, Simulators and Simulations												
A Kits												
Recurring												
Hardware	- 1 -	- 1 -	- 1 -	15 / 15.986	- 1 -	15 / 15.986	9 / 22.741	- 1 -	217.622	1 / 3.177	4 / 19.589	31 / 69.
Life Cycle Management Plan	0 / 10.589	- 14.547	- /20.379	- 12.528	- / -	- /2.528	- /6.388	- /2.204	- / 0.882	- /3.759	- / 162.721	- / 213.
Subtotal: Recurring	- /10.589	- /4.547	- /20.379	- /18.514	- / -	- /18.514	- /29.129	- /2.204	- /8.504	- /6.936	- /182.310	- /283.
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.
Modification Item 9 of 13: Engineering Change Proposal 1(ECP 1)												,
A Kits												
Recurring												
Hardware	- 1 -	- 1 -	- 1 -	- / -	- / -	- / -	- / -	244 / 362.193	284 / 424.127	232 / 360.227	370 / 384.937	1, ² 1,531
Fielding	- 1 -	- / -	- 1 -	- 1 -	- / -	- / -	- / -	- /3.987	- /4.733	- / 51.539	- <i>I</i> 187.749	- / 248
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /366.180	- /428.860	- /411.766	- /572.686	- /1,779
Non-Recurring												
Labor (Logistics Product Updates)	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /20.716	- /20
Test	- 1 -	- / -	- 1 -	- 1 -	- / -	- / -	- 1 -	- 1 -	- 1 -	- / 0.763	- / 178.321	- <i>I</i> 179
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /0.763	- /199.037	- /199
Subtotal: Engineering Change Proposal 1(ECP 1)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	244 / 366.180	284 / 428.860	232 / 412.529	370 / 771.723	1, 1 1,979
Modification Item 10 of 13: Engineering Change Proposal 2 (ECP 2)												
A Kits												
Recurring												
Hardware	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	75 / 51.742	121 / 71.926	152 / 91.287	2,853 <i>l</i> 1,805.112	3,2 2,020
Fielding	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.670	- 17.128	- / 15.469	- / 19.087	- 142
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /52.412	- /79.054	- /106.756	- /1,824.199	- /2,062.
Non-Recurring												
Test	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /2.985	- / 163.704	- / 166
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.985	- /163.704	- /166.
Subtotal: Engineering Change Proposal 2 (ECP 2)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 52.412	121 / 79.054	152 / 109.741	2,853 / 1,987.903	3,2 2,229.

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GM0100 / STRYKER MODIFICATION

lodels of Systems Affected: VARIOUS		Modifi	cation Tyr	e: Increase	e Performs	nce	Po	lated RDT	RF PFe·			
ioueis di Systemis Amedicu. VARIOUS	· · · · · · · · · · · · · · · · · · ·	IVIOUIII	cation Typ				Re	aleu NDI	XL FES.			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) Total Cost (\$
Modification Item 11 of 13: Double V Hull (DVH) Survivability and Safety Mods				•		•		•	-		•	
A Kits												
Recurring												
Hardware	1,224 / 10.928	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	1,224 / 10.
Subtotal: Recurring	- /10.928	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /10
Non-Recurring						'						
Labor (Engineering Support)	- 1 -	- 1 -	- / 9.955	- /3.923	- 1 -	- /3.923	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 13.
Subtotal: Non-Recurring	- / -	- / -	- /9.955	- /3.923	- / -	- /3.923	- / -	- / -	- / -	- / -	- / -	- /13.
Subtotal: Double V Hull (DVH) Survivability and Safety Mods	1,224 / 10.928	- / -	- /9.955	- /3.923	- / -	- /3.923	- / -	- / -	- / -	- / -	- / -	1,224 / 24.
Modification Item 12 of 13: Operational Needs Statement (ONS) Lethality								l				
A Kits												
Recurring												
Fielding	- 1 -	- 1 -	- / 0.916	- /11.205	- 1 -	- / 11.205	- /11.205	- / -	- 1 -	- 1 -	- 1 -	- /23
Hardware	- 1 -	- 1 -	83 / 307.215	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	83 / 307
Subtotal: Recurring	- / -	- / -	- /308.131	- /11.205	- / -	- /11.205	- /11.205	- / -	- / -	- / -	- / -	- /330
Non-Recurring	1											
Production Facilitization	- 1 -	- 1 -	- /4.329	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 14
Logistics Support (Contractor)	- 1 -	- 1 -	- 1 -	- /4.811	- 1 -	- /4.811	- /9.622	- / 9.805	- 1 -	- 1 -	- 1 -	- /24
Subtotal: Non-Recurring	- / -	- / -	- /4.329	- /4.811	- / -	- /4.811	- /9.622	- /9.805	- / -	- / -	- / -	- /28.
Subtotal: Operational Needs Statement (ONS) Lethality	- / -	- / -	83 / 312.460	- /16.016	- / -	- /16.016	- /20.827	- /9.805	- / -	- / -	- / -	83 / 359.
Modification Item 13 of 13: Program Management						'						
Support												
Support A Kits												
A Kits	0 /3.518	- /4.871	- /7.932	- /7.932	- 1 -	- /7.932	- /8.011	- <i>I</i> 17.230	- /24.834	- 176.552	- /627.078	- 1777
A Kits Recurring	0 /3.518 - /3.518	- /4.871 - /4.871	- 17.932 - /7.932	- /7.932 - /7.932	- / -	- /7.932 - /7.932	- /8.011 - /8.011	- / 17.230 - / 17.230	- / 24.834 - / 24.834	- /76.552 - /76.552	- /627.078 - /627.078	
A Kits Recurring Program Management Support												- 1777. - /777.

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Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

Date: February 2016

Modification Number / Title:

GM0100 / Stryker (Mod)

GM0100 / STRYKER MODIFICATION

Models of Systems Affected: VARIOUS		Modifi	cation Typ	e: Increas	e Performa	ance	Re	lated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)											
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	- 1 -	119 / 0.710	- / -	- / -	- 1 -	- 1 -	- 1 -	748 / 6.969
Modification Item 2 of 13: Fleet Modifications	2,890 / 0.000	81 / -	4,524 / -	2,566 / -	- 1 -	2,566 / -	1,610 / -	289 / -	- 1 -	- 1 -	3,735 / -	15,695 / -
Modification Item 3 of 13: Video Display Electronic Terminal (VDET)	664 / 0.509	- 1 -	- 1 -	- / -	- 1 -	- / -	- / -	- / -	- 1 -	- 1 -	- 1 -	664 / 0.509
Modification Item 4 of 13: C4I Obsolescence and Next Generation Items	176 / 0.826	57 <i>l</i> 0.268	- 1 -	- / -	- 1 -	- / -	- / -	- / -	- 1 -	- 1 -	3,735 / 9.869	3,968 / 10.963
Modification Item 5 of 13: Block Mod Retrofit	2,336 / 9.779	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	2,336 / 9.779
Modification Item 9 of 13: Engineering Change Proposal 1(ECP 1)	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- / -	122 / -	240 / -	240 / -	528 / -	1,130 / -
Modification Item 10 of 13: Engineering Change Proposal 2 (ECP 2)	0 / 0.000	- 1 -	- 1 -	- / -	- 1 -	- / -	- / -	- / -	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 -	- / -	- 1 -	- / -	- / -	- / -	- 1 -	- 1 -	- 1 -	1,224 / 1.114
Modification Item 12 of 13: Operational Needs Statement (ONS) Lethality	0 / 0.000	- 1 -	- 1 -	16 / -	- 1 -	16 / -	67 / -	- / -	- 1 -	- 1 -	- 1 -	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

LI GM0100 - Stryker (Mod) Army

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		Modification Number / Title: GM0100 / STRYKER MODIFICATION
Modification Item 1 of 13: Mobile Gun System (MGS) Full Materiel Release(F	MR)	

Manufacturer Information

Manufacturer Name: GM	GDLS Defense Group, L.L.	.C		Manufacturer Location: St	erling Heights, Michigan		
Administrative Leadtime (in Months): 8			Production Leadtime (in N	fonths): 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.

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	199 / 2.061	374 / 3.866	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	573 / 5.927
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	56 / 0.332	119 / 0.710	- 1 -	119 / 0.710	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	175 / 1.042
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	199 / 2.061	374 / 3.866	56 / 0.332	119 / 0.710	- 1 -	119 / 0.710	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	748 / 6.969

Installation Schedule

		,	FY 2	015		,	FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	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	TC	Tot
In	573	-	-	-	-	-	175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	748
Out	199	93	93	94	94	-	-	28	28	29	30	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	748

LI GM0100 - Stryker (Mod) Army

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Exhibit P-3a, Indi	vidual Modification: Pl	3 2017 Army				Date: February 2016	;
Appropriation / B 2033A / 01 / 20	udget Activity / Budge	t Sub Activity:	P-1 Line Item Nun GM0100 / Stryker			Modification Number GM0100 / STRYKER	
Modification Item 2 of	13: Fleet Modifications		·			·	
Manufacturer Informa	tion						
Manufacturer Name: G	M GDLS Defense Group, LLC	;		Manufacturer Location: S	terling Heights, Michigar		
Administrative Leadtime	e (in Months): 4			Production Leadtime (in I	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

	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
	Piloi feats	F1 2015	F1 2016	Dase	000	IOIAI	F1 2010	F1 2019	F1 2020	F1 2021	Complete	IOlai
Installation Cost	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Prior Years	2,890 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	2,890 / 0.000
FY 2015	0 / 0.000	81 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	81 / -
FY 2016	0 / 0.000	- 1 -	4,524 / -	2,262 / -	- 1 -	2,262 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	6,786 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	304 / -	- 1 -	304 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	304 / -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1,610 / -	- 1 -	- 1 -	- 1 -	- 1 -	1,610 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	289 / -	- 1 -	- 1 -	- 1 -	289 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3,735 / -	3,735 / -
Total	2,890 / 0.000	81 / -	4,524 / -	2,566 / -	- 1 -	2,566 / -	1,610 / -	289 / -	- 1 -	- 1 -	3,735 / -	15,695 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	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	тс	Tot
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

LI GM0100 - Stryker (Mod) Army

Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	<u> </u>
Appropriation / Buo 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Numb GM0100 / STRYKER	
Modification Item 3 of 1	3: Video Display Electronic	Terminal (VDET)					
Manufacturer Information	on						
Manufacturer Name: GM	GDLS Defense Group, L.L	.C		Manufacturer Location: S	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.

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	664 / 0.509	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	664 / 0.509
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	664 / 0.509	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	664 / 0.509

Installation Schedule

			FY 2	015		FY 2016 Q4 Q1 Q2 Q3 Q4					FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	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	TC	Tot
In	664	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	664
Out	664	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	664

LI GM0100 - Stryker (Mod) Army

Exhibit P-3a, Individ	lual Modification: Pl	3 2017 Army				Date: February 2016	<u> </u>
Appropriation / Bud 2033A / 01 / 20	get Activity / Budge	t Sub Activity:	P-1 Line Item Numb GM0100 / Stryker (M			Modification Number GM0100 / STRYKER	
Modification Item 4 of 13	: C4I Obsolescence and N	lext Generation Items					
Manufacturer Informatio	n						
Manufacturer Name: GM	GDLS Defense Group, L.L.	C.		Manufacturer Location: St	erling Heights, Michigan		
Administrative Leadtime (i	n Months): 2			Production Leadtime (in M	fonths): 7		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021

Nov 2017

Jun 2018

Nov 2016

Jun 2017

Installation Information

Contract Dates

Delivery Dates

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

Nov 2015

Jun 2016

Nov 2014

Jun 2015

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	176 / 0.826	57 / 0.268	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	233 / 1.094
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3,735 / 9.869	3,735 / 9.869
Total	176 / 0.826	57 / 0.268	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3,735 / 9.869	3,968 / 10.963

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	тс	Tot																								
In	233	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,735	3,968
Out	176	-	-	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,735	3,968

LI GM0100 - Stryker (Mod) Army

Exhibit P-3a, Indiv	idual Modification: P	B 2017 Army				Date: February 201	6
Appropriation / Bu 2033A / 01 / 20	idget Activity / Budge	et Sub Activity:	P-1 Line Item Num GM0100 / Stryker (I			Modification Numb	
Modification Item 5 of	13: Block Mod Retrofit						
Manufacturer Informat	ion						
Manufacturer Name: GN	I 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.

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	2,336 / 9.779	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	2,336 / 9.779
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	2,336 / 9.779	- / -	- / -	- / -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	2,336 / 9.779

Installation Schedule

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

LI GM0100 - Stryker (Mod) Army UNCLASSIFIED
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P-1 Line #2

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Exhibit P-3a, Indiv	idual Modification: Pl	B 2017 Army				Date: February 2016	
Appropriation / Bu 2033A / 01 / 20	idget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Number GM0100 / STRYKER	
Modification Item 6 of	13: Test Fleet Maintenance		•				
Manufacturer Informat	ion						
Manufacturer Name: GM	1 GDLS Defense Group, L.L.	С		Manufacturer Location: St	erling Heights, Michiga	n	
Administrative Leadtime	(in Months): 4			Production Leadtime (in N	fonths):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
0 1 10 1	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Contract Dates					Jan 2019	Jan 2020	Jan 2021

LI GM0100 - Stryker (Mod)
Army

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			OI TO	7 (00): 123			
Exhibit P-3a, Indiv	idual Modification: Pl	B 2017 Army				Date: February 2016	3
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Number GM0100 / STRYKER	
Modification Item 7 of 1	13: Retrofit Planning and Site	e Management	•			'	
Manufacturer Informati	on						
Manufacturer Name: GM	GDLS Defense Group, L.L.	.C		Manufacturer Location: St	terling Heights, Michiga	n	
Administrative Leadtime	(in Months): 5			Production Leadtime (in N	Months):		
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 Implementat	ion (Organic): Prime Contr	actor			Installation (Quantity: 0	

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LI GM0100 - Stryker (Mod) UNCLASSIFIED

Exhibit P-3a, Indiv	idual Modification: Pl	B 2017 Army				Date: February 2016	;
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Number GM0100 / STRYKER	
Modification Item 8 of	13: Training Aids, Devices, S	Simulators and Simulati	ons				
Manufacturer Informati	on						
Manufacturer Name: Ro	ckwell Collins Simulation & 1	Fraining		Manufacturer Location: Ce	edar Rapids, Iowa		
Administrative Leadtime	(in Months): 4			Production Leadtime (in M	fonths): 7		
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

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

LI GM0100 - Stryker (Mod) Army UNCLASSIFIED
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Exhibit P-3a, Indiv	vidual Modification: P	B 2017 Army				Date: February 201	6
Appropriation / Bo 2033A / 01 / 20	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Numb	
Modification Item 9 of	13: Engineering Change Pro	posal 1(ECP 1)					
Manufacturer Information	tion						
Manufacturer Name: Gl	M GDLS Defense Group, L.L	С		Manufacturer Location: S	Sterling Heights, Michigar	ı	
Administrative Leadtime	e (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

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	122 / -	122 / -	- 1 -	- 1 -	244 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	118 / -	166 / -	- 1 -	284 / -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	741 -	158 / -	232 / -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	370 / -	370 / -
Total	0 / 0.000	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	122 / -	240 / -	240 / -	528 / -	1,130 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	019			FY 2	020			FY 2	.021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot												
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

LI GM0100 - Stryker (Mod) Army UNCLASSIFIED
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Exhibit P-3a, Indiv	idual Modification: P	3 2017 Army				Date: February 201	6
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	t Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Numb	
Modification Item 10 of	13: Engineering Change Pr	oposal 2 (ECP 2)					
Manufacturer Informat	on						
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 Contactor and depot team

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	- /0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	15/ -	60 / -	- 1 -	75 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	20 / -	101/ -	121 / -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	152 / -	152 / -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	2,853 / -	2,853 / -
Total	0 / 0.000	- 1 -	- / -	- 1 -	- 1 -	- / -	- 1 -	- / -	15 / -	80 / -	3.106 / -	3.201/ -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot																				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	20	20	20	20	20	3,086	3,201
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	20	20	20	20	3,106	3,201

LI GM0100 - Stryker (Mod) Army UNCLASSIFIED
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Exhibit P-3a, Indi	vidual Modification: Pl	3 2017 Army				Date: February 2010	6
Appropriation / B 2033A / 01 / 20	udget Activity / Budge	t Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Numb	
Modification Item 11 o	of 13: Double V Hull (DVH) Sเ	rvivability and Safety M	lods				
Manufacturer Informa	tion						
Manufacturer Name: G	M GDLS Defense Group, L.L.	C.		Manufacturer Location: S	Sterling Heights, Michigar	١	
Administrative Leadtime	e (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

mother of improved and in the contraction of the co	301111.40101											
	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	774 / 0.649	450 / 0.465	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	1,224 / 1.114
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	774 / 0.649	450 / 0.465	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1,224 / 1.114

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	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	TC	Tot
In	1,224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,224
Out	774	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,224

LI GM0100 - Stryker (Mod) Army

Exhibit P-3a, Indiv	ridual Modification: ₽	B 2017 Army				Date: February 201	6
Appropriation / Bi 2033A / 01 / 20	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Numb	
Modification Item 12 o	f 13: Operational Needs Sta	tement (ONS) Lethality					
Manufacturer Informat	tion						
Manufacturer Name: GN	M GDLS Defense Group, L.L	.C.		Manufacturer Location: S	Sterling Heights, Michiga	า	
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

monitor of impromontation : immo oc	······································											
	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
Installation Cost	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I 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	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	16/ -	- 1 -	16 / -	67 / -	- 1 -	- 1 -	- 1 -	- 1 -	83 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	16/ -	- 1 -	16 / -	67 / -	- 1 -	- 1 -	- 1 -	- 1 -	83 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	TC	Tot																								
In	-	-	-	-	-	-	-	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	83
Out	-	-	-	-	-	-	-	-	-	-	-	-	16	22	22	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83

LI GM0100 - Stryker (Mod) Army

Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	;
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GM0100 / Stryker			Modification Number GM0100 / STRYKER	
Modification Item 13 of	13: Program Management	Support	•				
Manufacturer Informati	on						
Manufacturer Name: PM	SBCT and GM GDLS Defe	nse Group, L.L.C.		Manufacturer Location: W	arren and Sterling Heig	nts, Michigan	
Administrative Leadtime	(in Months): 3			Production Leadtime (in M	fonths):		
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 Implementat	ion (Organic): Governmen	and contractor personi	nel		Installation C	uantity: 0	

LI GM0100 - Stryker (Mod) Army

P-1 Line #2

28

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: G85200 / Stryker Upgrade

Modification of Tracked Combat Vehicles

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

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

Line item MDAI /MAIO Oode: N/A	Itelli MD	AI /IIIAIO OOG	6(3). 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 (Units in Each)	-	-	130	123	-	123	70	-	-	-	-	323
Gross/Weapon System Cost (\$ in Millions)	-	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-	-	1,441.741
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-	-	1,441.741
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-	-	1,441.741
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are documente	ed elsewhere.)			<u>'</u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	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/ECP1 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 designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter.

UNCLASSIFIED LI G85200 - Stryker Upgrade 29 Page 1 of 9 P-1 Line #3 Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: G85200 / Stryker Upgrade

Modification of Tracked Combat Vehicles

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:	Quantity	-	130	123	-	123	70	-	-	-
Secondary Distribution	Total Obligation Authority	-	412.043	444.561	-	444.561	475.443	84.629	25.065	-

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UNCLASSIFIED LI G85200 - Stryker Upgrade Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: G85200 / Stryker Upgrade

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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	G85200 / Stryker Upgrade	P-5a, P-21	Α	- / -	- / -	130 / 412.043	123 / 444.561	- / -	123 / 444.561
P-40	Total Gross/Weapon System Cost			- 1 -	- 1 -	130 / 412.043	123 / 444.561	- 1 -	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.

> UNCLASSIFIED Page 3 of 9

Date: February 2016 Exhibit P-5, Cost Analysis: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2033A / 01 / 20 G85200 / Stryker Upgrade 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
(The following Resource Summary rows are for informa	ational purposes only. The co.	rresponding budget requ	ests are documented elsewher	re.)		<u> </u>
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.

	P	rior Years	S		FY 2015			FY 2016		F۱	/ 2017 Bas	se	F	2017 OC	0	F	/ 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	<u>'</u>		'	<u> </u>			<u>'</u>	'		'			·		·	·		
Recurring Cost																		
DVH w/ECP1 Infantry Carrier Vehicle ^(†)	-	-	-	-	-	-	2,862.674	89	254.778	2,968.821	56	166.254	-	-	-	2,968.821	56	166.2
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	79.6
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	23.6
DVH w/ECP1 Commander's Vehicle ^(†)	-	-	-	-	-	-	3,247.400	5	16.237	3,071.500	16	49.144	-	-	-	3,071.500	16	49.1
DVH w/ECP1 Medical Evacuation Vehicle ^(†)	-	-	-	-	-	-	3,180.000	5	15.900	3,130.368	19	59.477	-	-	-	3,130.368	19	59.4
Government Furnished Equipment (GFE)	-	-	-	-	-	-	-	-	4.538	-	-	6.087	-	-	-	-	-	6.0
Program Management Support (Govt)	-	-	-	-	-	-	-	-	17.149	-	-	24.316	-	-	-	-	-	24.3

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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

Date: February 2016

P-1 Line Item Number / Title:

G85200 / Stryker Upgrade

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.

					,													
	F	Prior Years	s		FY 2015			FY 2016		FY	/ 2017 Ba	se	F'	Y 2017 OC	0	F	Y 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
System Fielding Support	-	-	-	-	-	-	-	-	1.917	-	-	35.949	-	-	-	-	-	35.949
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	412.043	-	-	444.561	-	-	-	-	-	444.561
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	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

Secondar	y 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:	Quantity	-	130	123	-	123
Secondary Distribution	Total Obligation Authority	-	412.043	444.561	-	444.561

^(†) indicates the presence of a P-5a

LI G85200 - Stryker Upgrade Army

Exhibit P-5a, Procurement History and Planning: PB 2017 Army Date: February 2016 Item Number / Title [DODIC]: Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 2033A / 01 / 20 G85200 / Stryker Upgrade G85200 / Stryker Upgrade

					<u> </u>						<u> </u>	
Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
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

LI G85200 - Stryker Upgrade Army

	P-21, Pr									_								_							2016				
Appropri 2033A / 0		Budge	t Acti	vity /	Budg	jet Sı	ub Ac	tivity	•					iber / pgrad												[DOD grade			
		lements in Each)								Fiscal Y	ear 2016	3										Fiscal Y	ear 2017						B
			ACCEPT										Calenda	Year 20	16								Caler	ndar Year	2017				Ĺ
M D F C R D # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 0
OVH w/ECP1 I			2015	1001	'	_ v		N		_ K	K	1	IN.	<u> </u>	l G	_ F	'		·	IN	В	K	, K	ı	N		G		
1 2016		89	_	89									_	Α -	Ι -	_	_	_	-	-	-	-	_	_	5	9	5	5	
1 2017		56	_	56										Α -		_	_	_		_		_	_	Α -	-	-	-	-	
OVH w/ECP1				30																				Α-					
2 2016		9	-	9										Α -	Ι.	_		_	-	-		-	_	_	_	-	- 1	- 1	
DVH w/ECP1 I																													
3 2016		6	-	6										Α -	_	_		_	-	- 1	-	_	_	_	_	- 1	-	-	
3 2017		25	_	25																				Α -	_	_	_	_	
DVH w/ECP1 F																													
4 2016		10	-	10									_	Α -	I -	_	_ [_	_	- 1	-	-	_	_	_	- 1	-	1	
DVH w/ECP1 E													_															ļ	
5 2016		6	-	6									_	Α -	Ι -	-	-	-	-	-	-	-	-	-	-	- 1	1	4	_
5 2017	ARMY	7	-	7									_									ļ.		Α -	-	-	-	-	
DVH w/ECP1 (s Vehicle																											
6 2016	ARMY	5	-	5										Α -	-	-	-	-	-	-	-	-	-	-	-	1	4		
6 2017	ARMY	16	-	16																				Α -	-	-	-	-	
DVH w/ECP1	Medical Evad	cuation Veh	nicle																										
7 2016	ARMY	5	-	5										Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7 2017	ARMY	19	-	19																				Α -	-	-	-	-	
					0	N	D	J	F E	М	Α	М	J	J	Α	S E	0	N	D E	J	F	М	Α	М	J	J	Α	S	
					C T	0 V	E	A N	E B	A R	P R	A Y	U N	U L	U G	E P	O C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	
														,								,							

LI G85200 - Stryker Upgrade Army

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2033A / 01 / 20 G85200 / Stryker Upgrade G85200 / Cost Elements (Units in Each) Fiscal Year 2018 Fiscal Year 2019	M J J A S A U U U E Y N L G P
State Stat	ndar Year 2019 M J J A S A U U U E F Y N L G P
March Fire Process	M J J A S A U U U E Y N L G P
C R F V SERVICE 0TV 2017 10CT 1 0 C C N B R R P N N N N N N N N N N N N N N N N N	M J J A S A U U U E F Y N L G P
Name	
1 2017 ARMY 56 - 56 - - - - - - - - -	4 4 8
Name	4 4 8
Variable Variable	
DVH w/ECP1 Mortar Carrier Vehicle	
S 2016 ARMY 6 - 6 1 3 2	
3 2017 ARMY 25 - 25 - - - - - - - - -	
DVH w ECP1 Fire Support Vehicle	
A 2016 ARMY 10 1 9 4 5	3 3
DVH w ECP1 Engineer Squad Vehicle	
S 2016 ARMY S S S S S S S S S	
S 2017 ARMY 7 - 7 - - - - - - -	
DVH w/ECP1 Commander's Vehicle	_
6 2016 ARMY 5 5 - 6 2017 ARMY 16 - 16 5 5 1 DVH w/ECP1 Medical Evacuation Vehicle 7 2016 ARMY 5 - 5 - 1 4	
6 2017 ARMY 16 - 16 5 5 5 1 DVH w/ECP1 Medical Evacuation Vehicle 7 2016 ARMY 5 - 5 - 1 4	
DVH w/ECP1 Medical Evacuation Vehicle 7 2016 ARMY 5 - 5 - 1 4	_
7 2016 ARMY 5 - 5 - 1 4	<u> </u>
	3 3
O N D J F M A M J J A S O N D J F M A C O E A E A P A U U U E C O E A E A P T V C N B R R	M J J A S A U U U E Y N L G P
T V C N B R R Y N L G P T V C N B R R	Y N L G P

LI G85200 - Stryker Upgrade Army

Exhibit P-21, Production Schedule: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

Date: February 2016

Item Number / Title [DODIC]:
G85200 / Stryker Upgrade

G85200 / Stryker Upgrade

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Ini	tial			Red	order	
Ref	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

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

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LI G85200 - Stryker Upgrade Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ2300 / FIST Vehicle (Mod)

Modification of Tracked Combat Vehicles

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

Item MDAP/MAIS Code(s): N/A 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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
(The following	Resource Sum	mary rows are fo	r informational p	ourposes only. Ti	he corresponding	g budget request	ts are document	ed elsewhere.)	Ŷ			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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 Bradlevs 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.

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

UNCLASSIFIED LI GZ2300 - FIST Vehicle (Mod) 38 Page 1 of 8 P-1 Line #4 Army

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ2300 / FIST Vehicle (Mod)

Modification of Tracked Combat Vehicles

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
	Total Obligation Authority	2.045	-	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.714	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	26.759	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ2300 / FIST Vehicle (Mod)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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-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	- 1 -	- 1 -	- 1 -	- 1 -
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit	Title*		ID	Quantity / Total Cost	Quantity / Total Cost (Each) / (\$ M)				
Type	ritie	Subexhibits	CD	(Each) I (\$ M)	(Each) I (\$ IVI)				
P-3a	GZ2300 / FS3 on A3 BFIST / M7 BFIST SA (Increase Performance)	Subexhibits	СБ	(Eacn) I (\$ M)	(Each) I (\$ M)	(Eacn) I (\$ M)	(Each) I (\$ M)	- / -	- /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.

LI GZ2300 - FIST Vehicle (Mod) Army

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

	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Tl	ne corresponding	g budget request	s are documente	ed elsewhere.)]	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Second	lary 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:	Quantity	-	-	-	-	=	=	=	-	-
Secondary Distribution	Total Obligation Authority	26.759	-	-	-	-	-	-	-	-

LI GZ2300 - FIST Vehicle (Mod) Army Page 4 of 8

Date: February 2016 Exhibit P-3a, Individual Modification: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 2033A / 01 / 20 GZ2300 / FIST Vehicle (Mod) GZ2300 / FS3 on A3 BFIST / M7 BFIST SA Related RDT&E PEs: Models of Systems Affected: A3 BFIST / M7 BFIST Modification Type: Increase Performance SA FY 2017 FY 2017 FY 2017 То

	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Procurement												
Modification Item 1 of 2: PRIOR YEAR CLOSED - BFIST												
A Kits												
Recurring												
Prior Year Closed - A3 BFIST	189 / 957.258	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	189 / 957.25
Subtotal: Recurring	- /957.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /957.25
Subtotal: PRIOR YEAR CLOSED - BFIST	189 / 957.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	189 / 957.25
Modification Item 2 of 2: FS3 on BFIST									'	'		
A Kits												-
Recurring												-
BFIST A3 FS3 A-Kits	200 / 35.873	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	200 / 35.87
BFIST A3 FS3 Sensors	215 / 62.302	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	215 / 62.30
BFIST A3 GFE/GFM	0 / 9.972	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /9.97
BFIST M7SA FS3 A Kits	51 / 9.712	28 / 5.320	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	79 / 15.03
BFIST M7SA FS3 Sensors	41 / 7.749	38 / 1.406	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	79 / 9.15
BFIST M7SA GFE/GFM	0 / 1.975	- / 0.462	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /2.43
LL FS3 Sensor Mod Kits	0 / 2.355	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /2.35
Engineering Production (A3 & M7SA)	0 / 92.606	- / 11.252	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 103.85
Government Support (A3 & M7SA)	0 / 20.567	- /3.500	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /24.06
Fielding (A3 & M7SA)	0 / 10.926	- /2.310	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 13.23
Test & Evaluation (A3 & M7SA)	0 / 12.132	- /2.509	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 14.64
Subtotal: Recurring	- /266.169	- /26.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /292.92
Subtotal: FS3 on BFIST	507 / 266.169	66 / 26.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	573 / 292.92
Subtotal: Procurement, All Modification Items	696 / 1,223.427	66 / 26.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	762 / 1,250.18
Installation												
Modification Item 1 of 2: PRIOR YEAR CLOSED - BFIST	189 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	189 / -
Modification Item 2 of 2: FS3 on BFIST	214 / 0.000	65 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	279 / -
Subtotal: Installation	403 / 0.000	65/ -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	468 / -
Total												

LI GZ2300 - FIST Vehicle (Mod)

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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: GZ2300 / FIST Vehicle (Mod)	Modification Number / Title: GZ2300 / FS3 on A3 BFIST / M7 BFIST SA

Models of Systems Affected: A3 BFIST / M7 BFIST | Modification Type: Increase Performance | Related RDT&E PEs:

SA

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Total Cost (Procurement + Support + Installation)	1,223.427	26.759	-	-	-	-	-	-	-	-	-	1,250.186

Exhibit P-3a, Indiv	ridual Modification	on: PB 2	017 Army								Date: F	ebruary 20	16	
Appropriation / Bu 2033A / 01 / 20	udget Activity / E	Budget S	ub Activity	I	Line Item 2300 / FIST							ation Num	ber / Title: A3 BFIST / M	//7 BFIST
Modification Item 1 of	2: PRIOR YEAR CLO	SED - BFI	ST											
Manufacturer Informat	tion													
Manufacturer Name: BA	ΛE					М	/lanufactu	urer Locatio	on: YORK, PA					
Administrative Leadtime	e (in Months):					Pi	roduction	n Leadtime	(in Months):					
Dates	FY 2015		FY 2016		FY 2017		F`	Y 2018		FY 2019	F	Y 2020	FY	2021
Contract Dates														
Delivery Dates														
Installation Information	n													
Method of Implementa	tion: X													
	Pr	rior Years	FY 2015	FY 2016	FY 2017 Base	FY 201 OCO		FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation		Qty (Each) I tal Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each		Qty (Each) I tal Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M				
Prior Years		189 / 0.000	- /0.000	- 1 -	- 1 -	-	1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- /0.000	189 / 0.000
FY 2015		0 / 0.000	- 1 -	- 1 -	- 1 -	-	1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -

Instal	lation	Sche	dule

FY 2016

FY 2017

FY 2018

FY 2019

FY 2020

FY 2021

Total

To Complete

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																
In	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	189
Out	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	189

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UNCLASSIFIED LI GZ2300 - FIST Vehicle (Mod) Page 7 of 8 Army

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Exhibit P-3a, Indiv	idual Modification: P	B 2017 Army				Date: February 201	6
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GZ2300 / FIST V			Modification Numb GZ2300 / FS3 on A SA	oer / Title: 3 BFIST / M7 BFIST
Modification Item 2 of 2	2: FS3 on BFIST						
Manufacturer Informati	ion						
Manufacturer Name: BA	E			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

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	214 / 0.000	- /0.000	- / -	- 1 -	- 1 -	- / -	- / -	- 1 -	- 1 -	- 1 -	- /0.000	214 / 0.000
FY 2015	0 / 0.000	65 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	65 / -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	214 / 0.000	65 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	279 / -

Installation Schedule

				FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	2021			
		PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																
	n	214	-	-	12	12	13	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	279
[Out	214	-	-	-	12	12	13	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279

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

Program Elements for Code B Items: N/A

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ2400 / Bradley Program (MOD)

Other Related Program Elements: 0203735A

Modification of Tracked Combat Vehicles

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

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

Line item widap/wais code: N/A	item wib	AP/IVIAIS COU	ie(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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	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 Sumi	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	_	_	_	_	_	_	_	-	_	_	_

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).

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	136.006	210.042	276.433	-	276.433	496.556	482.020	427.534	495.780

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ2400 / Bradley Program (MOD)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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-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	- 1 -	- / 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)					
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.

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.

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

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

2033A / 01 / 20	GZ2400 / Bradley Program (MOD) GZ2400 / Bradley P									Program MO	D	
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)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	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 Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)	1		<u> </u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	_	-	-	-	_	_	-	-	-	_	-

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.

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

LI GZ2400 - Bradley Program (MOD) Army UNCLASSIFIED
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P-1 Line #5

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

Secondar	y 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:	Quantity	-	-	-	=	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	136.006	210.042	276.433	=	276.433	496.556	482.020	427.534	495.780

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Exhibit P-3a, Individual Modification: PB 2017 ArmyDate: February 2016Appropriation / Budget Activity / Budget Sub Activity: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:

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ A										
rocurement											,	•
Modification Item 1 of 9: Bradley Reactive Armor												
A Kits												
Recurring												
Kit Quantity	2,676 / 765.100	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	2,676 / 765.10
Subtotal: Recurring	- /765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /765.10
Subtotal: Bradley Reactive Armor	2,676 / 765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,676 / 765.10
Modification Item 2 of 9: BFVS High Priority Improvements			'								I	1
A Kits												
Recurring												
CMED Driver Vision Upgrade	617 / 85.500	- 1 -	- / -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	617 / 85.50
Reset Mods	756 / 10.500	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	756 / 10.5
INU/Talon	271 / 5.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	271 / 5.0
Heat Abatement/Cargo Hatch	2,764 / 2.870	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	2,764 / 2.8
High Priority Mods	0 / 95.408	- 1 -	- /44.860	- /20.968	- 1 -	- /20.968	- / 53.919	- / 31.857	- / 16.299	- / 19.529	- 1 -	- / 282.84
Urban Survivability Mods	5,276 <i>I</i> 2,099.004	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	5,276 2,099.00
Subtotal: Recurring	- /2,298.282	- / -	- /44.860	- /20.968	- / -	- /20.968	- /53.919	- /31.857	- /16.299	- /19.529	- / -	- /2,485.7
Subtotal: BFVS High Priority Improvements	9,684 / 2,298.282	- / -	- /44.860	- /20.968	- / -	- /20.968	- /53.919	- /31.857	- /16.299	- /19.529	- / -	9,684 2,485.71
Modification Item 3 of 9: Training Equipment Devices												
A Kits												
Recurring												_
Training Equipment	0 / 64.811	- 1 -	- /49.447	- /4.161	- 1 -	- /4.161	- /4.240	- 17.577	- 17.728	- /5.631	- 1 -	- / 143.59
Subtotal: Recurring	- /64.811	- / -	- /49.447	- /4.161	- / -	- /4.161	- /4.240	- /7.577	- /7.728	- /5.631	- / -	- /143.59
Subtotal: Training Equipment Devices	0 /64.811	- / -	- /49.447	- /4.161	- / -	- /4.161	- /4.240	- /7.577	- /7.728	- /5.631	- / -	- /143.59
Modification Item 4 of 9: ODS Situational Awareness			•									,
A Kits												
Recurring												
ODS Situational Awareness	770 / 1,199.553	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	770 / 1,199.55
IBAS Refresh	0 / 8.850	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /8.85
ODS-SA VEHICLE VERSION IDENTIFICATION	0 / 12.500	- 1 -	- 1 -	- 1 -	- / -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- / 12.50

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

Models of Systems Affected: M2 & M3 Bradley Modification Type: Increase Performance Related RDT&E PEs:

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ N										
Subtotal: Recurring	- /1,220.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1,220.90
Subtotal: ODS Situational Awareness	770 / 1,220.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / 1,220.90
Modification Item 5 of 9: Program/Engineering Support												,
A Kits												
Recurring												
Government PM support	0 / 87.175	- /21.470	- /21.417	- /24.798	- 1 -	- /24.798	- / 24.946	- / 25.445	- <i>1</i> 25.954	- /26.874	- / 324.569	- / 582.64
Contractor PM Support	0 / 81.863	- / 9.141	- / 17.527	- /37.060	- 1 -	- /37.060	- /41.416	- / 42.245	- /43.090	- / 44.991	- / 569.536	- / 886.86
Subtotal: Recurring	- /169.038	- /30.611	- /38.944	- /61.858	- / -	- /61.858	- /66.362	- /67.690	- /69.044	- /71.865	- /894.105	- /1,469.51
Subtotal: Program/Engineering Support	0 /169.038	- /30.611	- /38.944	- /61.858	- / -	- /61.858	- /66.362	- /67.690	- /69.044	- /71.865	- /894.105	- /1,469.51
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	- 1 -	276 / 42.812	390 / 61.387	414 / 65.010	276 / 45.872	138 / 24.694	- 1 -	2,574 / 391.58
Field Conversion M2 Common Stowage	0 / 51.000	- 1 -	- /1.070	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 52.07
Underbelly	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	304 / 45.655	304 / 45.967	608 / 91.62
Subtotal: Recurring	- /119.563	- /48.455	- /35.862	- /42.812	- / -	- /42.812	- /61.387	- /65.010	- /45.872	- /70.349	- /45.967	- / 535.27
Subtotal: ECP 1 Modification/Field Upgrades	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 / 535.27
Modification Item 7 of 9: ECP 2 Modification												,
A Kits												
Recurring												
ECP 2 Modification	- 1 -	- 1 -	- 1 -	61 / 146.634	- 1 -	61 / 146.634	150 / 310.648	150 / 309.886	128 / 288.591	145 / 328.406	1,940 <i>l</i> 4,090.242	2,574 5,474.40
Subtotal: Recurring	- / -	- / -	- / -	- /146.634	- / -	- /146.634	- /310.648	- /309.886	- /288.591	- /328.406	- /4,090.242	- /5,474.40
Subtotal: 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 5,474.40
Modification Item 8 of 9: Conversion to M2												
A Kits												
Recurring												
Conversion M3-M2	139 / 76.786	38 / 28.500	18 / 13.505	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	195 / 118.79
Fielding	- 1 -	- / 13.454	- /5.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 18.45
Subtotal: Recurring	- /76,786	- /41.954	- /18.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /137.24

LI GZ2400 - Bradley Program (MOD) Army

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

Models of Systems Affected: M2 & M3 Bradley Modification Type: Increase Performance Related RDT&E PEs:

Vehicle Variants

LI GZ2400 - Bradley Program (MOD)

Army

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Subtotal: Conversion to M2	139 / 76.786	38 / 41.954	18 / 18.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	195 / 137.24
Modification Item 9 of 9: Braking Safety/Transmission Industrial Base											,	
A Kits												
Recurring												
Transmission	186 / 57.426	54 / 14.986	80 / 22.424	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	320 / 94.836
Subtotal: Recurring	- /57.426	- /14.986	- /22.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 94.836
Subtotal: Braking Safety/Transmission Industrial Base	186 / 57.426	54 / 14.986	80 / 22.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	320 / 94.836
Subtotal: Procurement, All Modification Items	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	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	2,676 / -
Modification Item 2 of 9: BFVS High Priority Improvements	9,684 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	9,684 / -
Modification Item 4 of 9: ODS Situational Awareness	770 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	7701 -
Modification Item 6 of 9: ECP 1 Modification/Field Upgrades	0 / 0.000	180 / -	420 / -	360 / -	- 1 -	360 / -	258 / -	3321 -	402 / -	346 / -	884 / -	3,182 <i>I</i> -
Modification Item 7 of 9: ECP 2 Modification	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	43 / -	131 / -	149 / -	2,251 / -	2,574 / -
Modification Item 8 of 9: Conversion to M2	0 / 0.000	76 / -	61 / -	43 / -	- 1 -	43 / -	15 <i>1</i> -	- 1 -	- 1 -	- 1 -	- 1 -	195 <i>l</i> -
Subtotal: Installation	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

Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016				
Appropriation / Bud 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Num GZ2400 / Bradley F	Modification Numb GZ2400 / Bradley Pr						
Modification Item 1 of 9	: Bradley Reactive Armor		·							
Manufacturer Information	on									
Manufacturer Name: GDA	ATP			Manufacturer Location: B	urlington, VT					
Administrative Leadtime ((in Months):			Production Leadtime (in I	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

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	2,676 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	2,676 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	2,676 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	2,676 / -

Installation Schedule

		FY 2015 FY 2016						FY 2	2017			FY 2018			FY 2019					FY 2	2020			FY 2							
	PYS	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	TC	Tot
In	2,676	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,676
Out	2,676	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,676

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Exhibit P-3a, Indiv	idual Modification: Pl	3 2017 Army			;									
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	t Sub Activity:	P-1 Line Item Numl GZ2400 / Bradley Pr			Modification Number / Title: GZ2400 / Bradley Program MOD								
Modification Item 2 of 9	: BFVS High Priority Improv	rements												
Manufacturer Information														
Manufacturer Name: BAI				Manufacturer Location: YORK, PA										
Administrative Leadtime	(in Months): 6			Production Leadtime (in M										
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

metrica of implementation: contract	<u> </u>			,		,						
	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
			-								•	
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	9,684 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	9,684 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- / -	- 1 -	- / -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- / -	- / -	- / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	9,684 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- / -	- / -	- 1 -	- 1 -	- 1 -	9,684 / -

Installation Schedule

		FY 2015					FY 2	2016		FY 2017				FY 2018				FY 2019					FY 2	2020			FY 2				
	PYS	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	тс	Tot
In	9,684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,684
Out	9,684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,684

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LI GZ2400 - Bradley Program (MOD) Army

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			01102				
Exhibit P-3a, Indiv	idual Modification: Pl	B 2017 Army				Date: February 2016	3
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GZ2400 / Bradley			Modification Number GZ2400 / Bradley Pr	
Modification Item 3 of 9	: Training Equipment Devic	es	•			•	
Manufacturer Informati	on						
Manufacturer Name: Oas	sis			Manufacturer Location: Al	UBURN HILLS, MI		
Administrative Leadtime	(in Months): 5			Production Leadtime (in N	Months): 12		
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 Implementat	ion (Organic): Contractor				Installation	Quantity: 0	

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LI GZ2400 - Bradley Program (MOD) Army

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Exhibit P-3a, Indivi	dual Modification: Pl	3 2017 Army				Date: February 2016	3
Appropriation / Buo 2033A / 01 / 20	dget Activity / Budge	t Sub Activity:	P-1 Line Item Num GZ2400 / Bradley F			Modification Number GZ2400 / Bradley Pr	
Modification Item 4 of 9.	ODS Situational Awarenes	SS					
Manufacturer Information	on						
Manufacturer Name: BAE				Manufacturer Location: Y	ORK, PA		
Administrative Leadtime (in Months):			Production Leadtime (in I	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

metrica of implementation. Contracto	1											
	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	770 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	770 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	770 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	770 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	TC	Tot																								
In	770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	770
Out	770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	770

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LI GZ2400 - Bradley Program (MOD) Page 11 of 16 Army

≣xhibit P-3a, Individ	lual Modification: Pl	B 2017 Army				Date: February 2016	;
Appropriation / Bud 2033A / 01 / 20	get Activity / Budge	et Sub Activity:	P-1 Line Item Nu GZ2400 / Bradley			Modification Number GZ2400 / Bradley Pr	
Modification Item 5 of 9:	Program/Engineering Sup	port	'				
Manufacturer Information	n						
Manufacturer Name: N/A				Manufacturer Location: W	ARREN, MI		
Administrative Leadtime (ir	n Months): 3			Production Leadtime (in M	fonths): 1		
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

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 Informat	tion						
Manufacturer Name: Lo	c Performance Products Inc,	/Other		Manufacturer Location: V	arious		
Administrative Leadtime	e (in Months): 9			Production Leadtime (in I	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

method of impromontation contracts												
	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	180 / 0.000	324 / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	504 / 0.000
FY 2015	0 / 0.000	- 1 -	96 / -	240 / -	- 1 -	240 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	336 / -
FY 2016	0 / 0.000	- 1 -	- 1 -	120 / -	- 1 -	120 / -	120 / -	- 1 -	- 1 -	- 1 -	- 1 -	240 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	138 / -	138 / -	- 1 -	- 1 -	- 1 -	276 / -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	194 / -	196 / -	- 1 -	- 1 -	390 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	206 / -	208 / -	- 1 -	414 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	138 / -	138 / -	276 / -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	4421 -	4421 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	304 / -	304 / -
Total	0 / 0.000	180 / -	420 / -	360 / -	- 1 -	360 / -	258 / -	332 / -	402 / -	346 / -	884 / -	3,182 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	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	TC	Tot
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, Indivi	dual Modification: Pl	3 2017 Army				Date: February 2016	<u> </u>
Appropriation / Buo 2033A / 01 / 20	dget Activity / Budge	t Sub Activity:	P-1 Line Item Numb GZ2400 / Bradley Pr			Modification Number GZ2400 / Bradley Pr	
Modification Item 7 of 9	ECP 2 Modification		•				
Manufacturer Information	on						
Manufacturer Name: BAE				Manufacturer Location: Yo	ork, PA		
Administrative Leadtime (in Months): 6			Production Leadtime (in M	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

Oct 2019

Oct 2020

P-1 Line #5

Oct 2021

Oct 2022

Jan 2019

Installation Information

Delivery Dates

Method of Implementation: Contractor

mounda or majoremontation oomaa												
	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
Installation Cost	Qty (Each) I 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	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	43 / -	18 / -	- 1 -	- 1 -	61 / -
FY 2018	0 / 0.000	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	113 / -	371 -	- 1 -	150 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	112 / -	38 / -	150 / -
FY 2020	0 / 0.000	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	128 / -	128 / -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	145 / -	145 / -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1,940 / -	1,940 / -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	43 / -	131 / -	149 / -	2,251 / -	2,574 / -

Installation Schedule

			FY 2	015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	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	тс	Tot
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

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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
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

	<u> </u>				· · · · · · · · · · · · · · · · · · ·		
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

motrica or implementation contractor												
	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	76 / 0.000	61 / 0.000	2 / 0.000	- 1 -	2 / 0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	139 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	38 / -	- 1 -	38 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	38 / -
FY 2016	0 / 0.000	- 1 -	- 1 -	3/ -	- 1 -	3/ -	15 / -	- 1 -	- 1 -	- 1 -	- 1 -	18 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	76 / -	61 / -	43 / -	- 1 -	43 / -	15 / -	- 1 -	- 1 -	- 1 -	- 1 -	195 / -

Installation Schedule

			FY 2	015		-	FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	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	TC	Tot
In	139	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	195
Out	-	-	15	31	30	32	5	13	11	7	10	13	13	12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	195

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Page 15 of 16

Exhibit P-3a, Indivi	dual Modification: Pl	B 2017 Army				Date: February 2016	6
Appropriation / Bud 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GZ2400 / Bradley			Modification Number GZ2400 / Bradley Pr	
Modification Item 9 of 9	: Braking Safety/Transmissi	ion Industrial Base	1				
Manufacturer Information	on						
Manufacturer Name: L3C	OM			Manufacturer Location: MI	USKEGON, MI		
Administrative Leadtime	(in Months): 8			Production Leadtime (in M	fonths): 12		
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					
nstallation Information							
	ion (Organic): Contractor				Installation C	uantity: 0	
					Installation C	quantity: 0	
					Installation C	quantity: 0	
					Installation C	tuantity: 0	
					Installation C	quantity: 0	
					Installation C	quantity: 0	

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)

Modification of Tracked Combat Vehicles

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

1.00											
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
-	-	-	-	-	-	-	-	-	-	-	-
1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
-	-	-	-	-	-	-	-	-	-	-	-
1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
-	-	-	-	-	-	-	-	-	-	-	-
1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
Resource Sumi	mary rows are fo	or informational p	urposes only. Th	e corresponding	n budget request	s are documente	d elsewhere.)				
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
	Prior Years - 1,911.335 - 1,911.335 - 1,911.335 Resource Summ	Prior Years FY 2015 1,911.335 45.411 - 1,911.335 45.411 - 1,911.335 45.411 Resource Summary rows are for the sum and the sum are summary rows are for the sum are sum are summary rows are for the sum are summary rows are for the sum are sum are summary rows are for the sum are summary rows are for the sum are	Years FY 2015 FY 2016 - - - 1,911.335 45.411 57.879 - - - 1,911.335 45.411 57.879 - - - 1,911.335 45.411 57.879 Resource Summary rows are for informational p - - - - - - - - - -	Prior Years FY 2015 FY 2016 FY 2017 Base - <	Prior Years FY 2015 FY 2016 FY 2017 Base FY 2017 OCO - - - - - - 1,911.335 45.411 57.879 63.138 - - - - - - 1,911.335 45.411 57.879 63.138 - - - - - - 1,911.335 45.411 57.879 63.138 - Resource Summary rows are for informational purposes only. The corresponding - - - - - - - - -	Prior Years FY 2015 FY 2016 FY 2017 Base FY 2017 OCO Total - - - - - - - - 1,911.335 45.411 57.879 63.138 - 63.138 - - - - - - 1,911.335 45.411 57.879 63.138 - 63.138 - - - - - - 1,911.335 45.411 57.879 63.138 - 63.138 Resource Summary rows are for informational purposes only. The corresponding budget request - - - - - - - - - - - -	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 - - - - - - - - 1,911.335 45.411 57.879 63.138 - 63.138 64.230 - - - - - - - 1,911.335 45.411 57.879 63.138 - 63.138 64.230 - - - - - - - - 1,911.335 45.411 57.879 63.138 - 63.138 64.230 Resource Summary rows are for informational purposes only. The corresponding budget requests are documented by the corresponding by the co	Prior Years FY 2015 FY 2016 Base FY 2017 OCO Total Tot	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 - <t< td=""><td>Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 -</td><td>Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -</td></t<>	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 -	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -

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.

				FY 2017	FY 2017	FY 2017				
Seconda	ry Distribution	FY 2015	FY 2016	Base	oco	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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: 0604854A

Other Related Program Elements: 0604854A

Line Item MDAP/MAIS Code: N/A

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

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-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	- 1 -	- / 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)					
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	- 1 -	- 1 -	- / 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, subsystems 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.

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P-1 Line #6

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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

	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,911.335	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-	104.059	2,304.101
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)			ĺ	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	- [-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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, subsystems 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.

Secondar	y 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:	Quantity	-	=	-	-	-	-	-	-	=
Secondary Distribution	Total Obligation Authority	45.411	57.879	63.138	-	63.138	64.230	58.049	-	-

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

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

2033A / 01 / 20 GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD) GA0400 / Paladin/FAASV Modification Program

Models of Systems Affected: M109 Howitzer and Modification Type: Increase Performance Related RDT&E PEs:

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I 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	- 1 -	- /2.265	- /2.311	- /2.357	- 1 -	- 1 -	- / 17.871	- / 30.77
Subtotal: Recurring	- /3.571	- /1.191	- /1.211	- /2.265	- / -	- /2.265	- /2.311	- /2.357	- / -	- / -	- /17.871	- /30.77
Subtotal: Paladin Program Office	0 /3.571	- /1.191	- /1.211	- /2.265	- / -	- /2.265	- /2.311	- /2.357	- / -	- / -	- /17.871	- /30.77
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	- 1 -	129 / 53.148	85 / 36.458	50 / 24.237	- 1 -	- 1 -	- 1 -	527 / 227.99 ²
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 / 227.99
Modification Item 3 of 12: Chrome Tubes	i i											
A Kits												
Recurring												
Hardware	- 1 -	- 1 -	209 / 19.470	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	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	<u>'</u>											
A Kits												
Recurring												
Hardware	- 1 -	- 1 -	240 / 5.718	75 / 1.822	- 1 -	75 / 1.822	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	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	- 1 -	- /5.903	- /6.021	- /6.141	- 1 -	- 1 -	- /42.104	- 175.029
Subtotal: Recurring	- /7.300	- /3.980	- /3.580	- /5.903	- / -	- /5.903	- /6.021	- /6.141	- / -	- / -	- /42.104	- /75.029

LI GA0400 - Howitzer, Med Sp Ft 155MM M109A6 (MOD) Army

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P-1 Line #6

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

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 2033A / 01 / 20 GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD) GA0400 / Paladin/FAASV Modification

Program

Models of Systems Affected: M109 Howitzer and M992 FAASV Vehicles Modification Type: Increase Performance Related RDT&E PEs:

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Subtotal: Paladin System Technical Support - Contr	0 /7.300	- /3.980	- /3.580	- /5.903	- / -	- /5.903	- /6.021	- /6.141	- / -	- / -	- /42.104	- /75.02
Modification Item 6 of 12: Breech Mod (MACS)			'									
A Kits												
Recurring												
Hardware	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	149 / 5.039	149 / 5.162	- 1 -	- 1 -	297 / 10.719	595 / 20.92
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- /5.039	- /5.162	- / -	- / -	- /10.719	- /20.92
Subtotal: Breech Mod (MACS)	- / -	- / -	- / -	- / -	- / -	- / -	149 / 5.039	149 / 5.162	- / -	- / -	297 / 10.719	595 / 20.92
Modification Item 7 of 12: Paladin Stowage Improvements												
A Kits												
Recurring												
Stowage Improvements	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	198 / 3.947	199 / 5.610	- 1 -	- 1 -	198 / 7.524	595 / 17.08
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- /3.947	- /5.610	- / -	- / -	- /7.524	- /17.08
Subtotal: Paladin Stowage Improvements	- / -	- / -	- / -	- / -	- / -	- / -	198 / 3.947	199 / 5.610	- / -	- / -	198 / 7.524	595 / 17.08
Modification Item 8 of 12: MFoCs/Paladin BFT-2/ KGV-72												
A Kits												
Recurring												
Hardware	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	149 / 7.563	149 / 9.487	- 1 -	- 1 -	297 / 21.263	595 / 38.31
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- /7.563	- /9.487	- / -	- / -	- /21.263	- /38.31
Subtotal: MFoCs/Paladin BFT-2/KGV-72	- / -	- / -	- / -	- / -	- / -	- / -	149 / 7.563	149 / 9.487	- / -	- / -	297 / 21.263	595 / 38.31
Modification Item 9 of 12: Paladin TADSS												
A Kits												
Recurring												
Training Equipment Software	0 /4.002	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /1.281	- 1 -	- 1 -	- 1 -	- /5.28
Subtotal: Recurring	- /4.002	- / -	- / -	- / -	- / -	- / -	- / -	- /1.281	- / -	- / -	- / -	- /5.28
Subtotal: Paladin TADSS	0 /4.002	- / -	- / -	- / -	- / -	- / -	- / -	- /1.281	- / -	- / -	- / -	- /5.28
Modification Item 10 of 12: CREW II A-Kit HW and Fielding						•		•	•		•	
A Kits												
Recurring												

Exhibit P-3a, Individual Modification: PB 2017 Army

Date: February 2016

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

2033A / 01 / 20

GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)

GA0400 / Paladin/FAASV Modification

Program

Models of Systems Affected: M109 Howitzer and Modification Type: Increase Performance Related RDT&E PEs:

M992 FAASV Vehicles

Installation Kits		FY 2016 Base OC	O Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Subtotal: Recurring	(+)	Qty (Each) I Qty (Each) I Qty (E tal Cost (\$ M) Total Cost (\$ M) Total Co		Qty (Each) I Total Cost (\$ M)					
Subtotal: CREW I A-Kit HW and Fielding - / - -	1 1	- 1 1 -	1 1 -	149 / 2.891	149 / 3.774	- 1 -	- 1 -	144 / 4.578	442 / 11.243
Modification Item 11 of 12: Prior Years Closed Mods	/ /	- / / -	//-	- /2.891	- /3.774	- / -	- / -	- /4.578	- /11.243
Recurring	/ - /	- / / -	//-	149 / 2.891	149 / 3.774	- / -	- / -	144 / 4.578	442 / 11.243
Recurring									
Prior Closed Mods									
1,816.451									
Subtotal: Prior Years Closed Mods	1 - - 1	- 1 - - 1 -	1 - - 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- / 1,816.451
Modification Item 12 of 12: ATR for Gun Tubes	/ - /	- / / -	/ / -	- / -	- / -	- / -	- / -	- / -	- /1,816.451
A Kits Recurring Hardware 0 /34.000 - Subtotal: Recurring - /34.000 - Subtotal: ATR for Gun Tubes 0 /34.000 - Subtotal: Procurement, All Modification Items 98 / 1,911.335 106 / 4 Installation Modification Item 2 of 12: Paladin Fire Control System 0 / 0.000 15 Modification Item 3 of 12: Chrome Tubes 0 / 0.000 - Modification Item 4 of 12: Lightweight Bore Evacuator 0 / 0.000 - Modification Item 6 of 12: Breech Mod (MACS) 0 / 0.000 - Modification Item 7 of 12: Paladin Stowage Improvements	/ /	- / / -	//-	- / -	- / -	- / -	- / -	- / -	- /1,816.451
Recurring									
Hardware									
Subtotal: Recurring - /34.000 - Subtotal: ATR for Gun Tubes 0 /34.000 - Subtotal: Procurement, All Modification Items 98/1,911.335 106/- Installation Modification Item 2 of 12: Paladin Fire Control System 0 /0.000 15 Modification Item 3 of 12: Chrome Tubes 0 /0.000 - Modification Item 4 of 12: Lightweight Bore Evacuator 0 /0.000 - Modification Item 6 of 12: Breech Mod (MACS) 0 /0.000 - Modification Item 7 of 12: Paladin Stowage 0 /0.000 - Improvements 0 /0.000 -									
Subtotal: ATR for Gun Tubes 0 /34.000 - Subtotal: Procurement, All Modification Items 98/1,911.335 106/- Installation Modification Item 2 of 12: Paladin Fire Control System 0 /0.000 15 Modification Item 3 of 12: Chrome Tubes 0 /0.000 - Modification Item 4 of 12: Lightweight Bore Evacuator 0 /0.000 - Modification Item 6 of 12: Breech Mod (MACS) 0 /0.000 - Modification Item 7 of 12: Paladin Stowage 0 /0.000 - Improvements - -	1 1	- 1 - - 1 -	1 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /34.000
Subtotal: Procurement, All Modification Items 98/1,911.335 106/4 Installation Modification Item 2 of 12: Paladin Fire Control System 0 /0.000 15 Modification Item 3 of 12: Chrome Tubes 0 /0.000 - Modification Item 4 of 12: Lightweight Bore Evacuator 0 /0.000 - Modification Item 6 of 12: Breech Mod (MACS) 0 /0.000 - Modification Item 7 of 12: Paladin Stowage 0 /0.000 - Improvements - -	/ - /	- / - - / -	//-	- / -	- / -	- / -	- / -	- / -	- /34.000
Installation	/ - /	- / - - / -	/ - - / -	- / -	- / -	- / -	- / -	- / -	- /34.000
Modification Item 2 of 12: Paladin Fire Control System 0 /0.000 15 Modification Item 3 of 12: Chrome Tubes 0 /0.000 - Modification Item 4 of 12: Lightweight Bore Evacuator 0 /0.000 - Modification Item 6 of 12: Breech Mod (MACS) 0 /0.000 - Modification Item 7 of 12: Paladin Stowage 0 /0.000 - Improvements - -	15.411 508 / 57.	508 / 57.879 204 / 63.138	/ - 204 / 63.13	730 / 64.230	696 / 58.049	- / -	- / -	936 / 104.059	3,278 / 2,304.101
Modification Item 3 of 12: Chrome Tubes 0 /0.000 - Modification Item 4 of 12: Lightweight Bore Evacuator 0 /0.000 - Modification Item 6 of 12: Breech Mod (MACS) 0 /0.000 - Modification Item 7 of 12: Paladin Stowage 0 /0.000 - Improvements - -									
Modification Item 4 of 12: Lightweight Bore Evacuator 0 /0.000 - Modification Item 6 of 12: Breech Mod (MACS) 0 /0.000 - Modification Item 7 of 12: Paladin Stowage Improvements 0 /0.000 -	1 - 25/	25 / - 164 / -	/ - 164 <i>/</i> -	59 / -	129 / -	85 / -	50 / -	- 1 -	527 / -
Modification Item 6 of 12: Breech Mod (MACS) 0 /0.000 Modification Item 7 of 12: Paladin Stowage Improvements 0 /0.000 - 10.000	1 1	- / - 209/ -	1 - 2091 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	209 / -
Modification Item 7 of 12: Paladin Stowage 0 /0.000 - Improvements	1 1	- / - 240/ -	/ - 240 / -	75 / -	- 1 -	- 1 -	- / -	- 1 -	315 / -
Improvements	1 1	- 1 1 -	1 1 -	- 1 -	149 / -	149 / -	- / -	297 / -	595 / -
Modification Item 8 of 12: MFoCs/Paladin BFT-2/KGV-72 0 /0.000 -	1 1	- 1 - - 1 -	1 1 -	- 1 -	198 / -	199 / -	- 1 -	198 / -	595 / -
	1 1	- 1 - - 1 -	1 1 -	- 1 -	149 / -	149 / -	- 1 -	297 / -	595 / -
Modification Item 10 of 12: CREW II A-Kit HW and 5 of 10.000 Fielding -	1 1	- 1 - - 1 -	1 1 -	- 1 -	37 / -	149 / -	112 / -	144 / -	442 / -
Subtotal: Installation 0 / 0.000 15		25 / - 613 / -	/ - 613/ -	134 / -	662 / -	731 / -	162/ -	936 / -	3,278 / -

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Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

P-1 Line Item Number / Title:
GA0400 / Howitzer, Med Sp Ft 155MM M109A6 (MOD)
Program

Date: February 2016

Modification Number / Title:
GA0400 / Paladin/FAASV Modification
Program

Models of Systems Affected: M109 Howitzer and Modification Type: Increase Performance Related RDT&E PEs:

M992 FAASV Vehicles

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)											
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

xhibit P-3a, Indivi	dual Modification: Pl	B 2017 Army				Date: February 2016	6
Appropriation / Bu 033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Num GA0400 / Howitzer,	ber / Title: Med Sp Ft 155MM M1	09A6 (MOD)	Modification Number GA0400 / Paladin/FA	
lodification Item 1 of 1	2: Paladin Program Office		<u>'</u>			1	
lanufacturer Information	on						
lanufacturer Name: x				Manufacturer Location: x			
dministrative Leadtime	(in Months): 1			Production Leadtime (in M	lonths):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Oct 2018	Oct 2019	Oct 2020
elivery Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020
nstallation Information							
					Installation (Quantity: 0	
					Installation (Quantity: 0	
					Installation (Quantity: 0	
					Installation (Quantity: 0	
					Installation	Quantity: 0	
lethod of Implementati					Installation	Quantity: 0	
					Installation	Quantity: 0	

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

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	15 / 0.000	25 / 0.000	58 / 0.000	- 1 -	58 / 0.000	- /0.000	- / 0.000	- 1 -	- 1 -	- /0.000	98 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	106 / -	- 1 -	106 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	106 / -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	59 / -	- 1 -	- 1 -	- 1 -	- 1 -	59 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	129 / -	- 1 -	- 1 -	- 1 -	129 / -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	85 / -	- 1 -	- 1 -	85 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	50 / -	- 1 -	50 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	15 / -	251 -	164 / -	- 1 -	164 / -	59 / -	129 / -	85 / -	50 / -	- 1 -	527 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	017			FY 2	018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	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	TC	Tot
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

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Exhibit P-3a, Indivi	idual Modification: P	PB 2017 Army				Date: February 2016					
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budg	et Sub Activity:		tem Number / Title: Howitzer, Med Sp Ft 155MM M109A6 (MOD) GA0400 / Paladin/FAASV Mo Program							
Modification Item 3 of 1	2: Chrome Tubes										
Manufacturer Information	on										
Manufacturer Name: TBD)			Manufacturer Location: T	BD						
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: .

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- 1 -	- 1 -	- /0.000	- /0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	209 / -	- 1 -	209 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	209 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	209 / -	- 1 -	209 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	209 / -

Installation Schedule

111000																															
			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																
In	-	-	-	-	-	-	-	-	-	52	52	53	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	209
Out	-	-	-	-	-	-	-	-	-	52	52	53	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	209

UNCLASSIFIED

Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	t Sub Activity:	P-1 Line Item Nur GA0400 / Howitzer	nber / Title: r, Med Sp Ft 155MM N	1109A6 (MOD)	Modification Numb GA0400 / Paladin/FA Program	
Modification Item 4 of 1	2: Lightweight Bore Evacuat	tor					
Manufacturer Informati	on						
Manufacturer Name: TBD)			Manufacturer Location:	ГВD		
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				

Dec 2017

Installation Information

Delivery Dates

Method of Implementation:

Exhibit P-3a, Individual Modification: PB 2017 Army

Dec 2016

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- 1 -	- 1 -	- /0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	240 / -	- 1 -	240 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	240 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	75 / -	- 1 -	- 1 -	- 1 -	- 1 -	75 / -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	240 / -	- 1 -	240 / -	75 / -	- 1 -	- 1 -	- 1 -	- 1 -	315 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	017			FY 2	018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	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	TC	Tot
In	-	-	-	-	-	-	-	-	-	60	60	60	60	18	19	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	315
Out	-	-	-	-	-	-	-	-	-	60	60	60	60	18	19	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	315

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Date: February 2016

Manufacturer Information Manufacturer Name: x Administrative Leadtime (in Months) Dates Contract Dates Delivery Dates Installation Information	System Technical Support - Contr): FY 2015 FY 2016	GA0400 / Howitze	mber / Title: er, Med Sp Ft 155MM M109A6 Manufacturer Location: x Production Leadtime (in Months) FY 2018		Modification Number GA0400 / Paladin/FA Program FY 2020 antity: 0	
Contract Dates): FY 2015 FY 2016		Production Leadtime (in Months)	FY 2019		FY 2021
Manufacturer Name: x Administrative Leadtime (in Months) Dates Contract Dates Delivery Dates Installation Information	FY 2015 FY 2016	6 FY 2017	Production Leadtime (in Months)	FY 2019		FY 2021
Administrative Leadtime (in Months) Dates Contract Dates Delivery Dates Installation Information	FY 2015 FY 2016	5 FY 2017	Production Leadtime (in Months)	FY 2019		FY 2021
Dates F Contract Dates Delivery Dates Installation Information	FY 2015 FY 2016	S FY 2017		FY 2019		FY 2021
Contract Dates Delivery Dates Installation Information		FY 2017	FY 2018			FY 2021
Delivery Dates Installation Information	nic): N/A			Installation Qu	lantity: 0	
Installation Information	nic): N/A			Installation Qu	nantity: 0	
	nic): N/A			Installation Qu	antity: 0	
Method of Implementation (Organ	nic): N/A			Installation Qu	antity: 0	

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-		•								-		
Appropriation / Budge 2033A / 01 / 20	et Activity / Budget S	Sub Activity		Line Item I 0400 / Howi		Title: I Sp Ft 155MN	и м109А6 (MOD)		ation Num) / Paladin/F n		ification
Modification Item 6 of 12: E	Breech Mod (MACS)		·						·			
Manufacturer Information												
Manufacturer Name: TBD					Mar	nufacturer Location	on: TBD					
Administrative Leadtime (in I	Months): 3				Pro	duction Leadtime	(in Months): 1	2				
Dates	FY 2015	FY 2016		FY 2017		FY 2018		FY 2019	F	Y 2020	FY	2021
Contract Dates						Dec 2017		Dec 2018				
Delivery Dates						Dec 2018		Dec 2019				
Installation Information												
Method of Implementation:												
	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
Installation Cos	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each) I	Qty (Each)

	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- 1 -	- 1 -	- / 0.000	- /0.000
FY 2015	0 / 0.000	- 1 -	- / -	- 1 -	- / -	- / -	- / -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- / -	- 1 -	- / -	- 1 -	- / -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	149 / -	- 1 -	- 1 -	- 1 -	149 / -
FY 2019	0 / 0.000	- 1 -	- / -	- 1 -	- / -	- / -	- / -	- 1 -	149 / -	- / -	- 1 -	149 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- / -	- 1 -	- / -	- / -	- / -	- 1 -	- 1 -	- / -	- 1 -	- / -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	297 / -	297 / -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	149 / -	149 / -	- 1 -	297 / -	595 / -

Installation Schedule

		••••																													
			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	2021			
	PYS	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	тс	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	38	37	37	-	-	-	-	297	595
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	38	37	37	-	-	-	-	297	595

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Exhibit P-3a, Individual Modification: PB 2017 Army

Date: February 2016

Appropriation / Buo 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nur GA0400 / Howitzer	nber / Title: r, Med Sp Ft 155MM M	1109A6 (MOD)	Modification Numb GA0400 / Paladin/FA Program	
Modification Item 7 of 1.	2: Paladin Stowage Improv	ements					
Manufacturer Information	on						
Manufacturer Name: TBD)			Manufacturer Location: 1	ГВD		
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

Exhibit P-3a, Individual Modification: PB 2017 Army

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- 1 -	- / -	- /0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	198 / -	- 1 -	- 1 -	- 1 -	198 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	199 / -	- 1 -	- 1 -	199 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	198 / -	198 / -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	198 / -	199 / -	- 1 -	198 / -	595 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot																				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	50	49	50	49	50	50	50	-	-	-	-	198	595
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	50	49	50	49	50	50	50	-	-	-	-	198	595

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Date: February 2016

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
		Modification Number / Title: GA0400 / Paladin/FAASV Modification Program
Modification Item 8 of 12: MFoCs/Paladin BFT-2/KGV-72		
Manufacturer Information		

Manufacturer Information	on						
Manufacturer Name: TBD)			Manufacturer Location: TE	BD		
Administrative Leadtime	(in Months): 3			Production Leadtime (in N	fonths): 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

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- 1 -	- 1 -	- /0.000	- /0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	149 / -	- 1 -	- 1 -	- 1 -	149 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	149 / -	- 1 -	- 1 -	149 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	297 / -	297 / -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	149 / -	149 / -	- 1 -	297 / -	595 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot																
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	37	38	37	-	-	-	-	297	595
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	37	38	37	-	-	-	-	297	595

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Exhibit P-3a, Individ	dual Modification: P	B 2017 Army				Date: February 2016	<u> </u>
Appropriation / Bud 2033A / 01 / 20			P-1 Line Item Nur GA0400 / Howitze	nber / Title: r, Med Sp Ft 155MM M1	09A6 (MOD)	Modification Number GA0400 / Paladin/FAProgram	
Modification Item 9 of 12	2: Paladin TADSS		·			•	
Manufacturer Informatio	n						
Manufacturer Name: X				Manufacturer Location: X			
Administrative Leadtime (i	in Months):			Production Leadtime (in M	lonths):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation	on (Organic): N/A				Installation	Quantity: 0	

Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nun GA0400 / Howitzer	nber / Title: , Med Sp Ft 155MM N	1109A6 (MOD)	Modification Numb GA0400 / Paladin/FA Program	
Modification Item 10 of	12: CREW II A-Kit HW and	Fielding					
Manufacturer Information	on						
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		

P-1 Line #6

Installation Information

Method of Implementation:

Exhibit P-3a, Individual Modification: PB 2017 Army

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- 1 -	- 1 -	- /0.000	- /0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	37 / -	112 / -	- 1 -	- 1 -	149 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	37 / -	112 / -	- 1 -	149 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	144 / -	144 / -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	371 -	149 / -	112/ -	144 / -	4421 -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	TC	Tot																								
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	37	38	37	-	-	-	-	144	442
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	38	37	37	37	38	37	-	-	-	-	144	442

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Date: February 2016

Exhibit P-3a, Individ	lual Modification: P	B 2017 Army				Date: February 2016	<u> </u>
Appropriation / Bud 2033A / 01 / 20			P-1 Line Item Nur GA0400 / Howitzer	nber / Title: r, Med Sp Ft 155MM M1	09A6 (MOD)	Modification Number GA0400 / Paladin/FAProgram	
Modification Item 11 of 1	2: Prior Years Closed Mo	ds				•	
Manufacturer Information	n						
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (ii	n Months):			Production Leadtime (in M	lonths):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation	n (Organic): x				Installation	Quantity: 0	

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Exhibit P-3a, Individu	al Modification: PE	3 2017 Army				Date: February 2016	
Appropriation / Budg 2033A / 01 / 20	et Activity / Budge	t Sub Activity:	P-1 Line Item Nui GA0400 / Howitze	mber / Title: r, Med Sp Ft 155MM M1	09A6 (MOD)	Modification Number GA0400 / Paladin/FA Program	
Modification Item 12 of 12:	ATR for Gun Tubes						
Manufacturer Information							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime (in	Months):			Production Leadtime (in M	lonths):		
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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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ0410 / Paladin Integrated Management (PIM)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210609A

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(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 (Units in Each)	17	18	30	36	12	48	60	60	60	60	215	568
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	=	-	-	-	-	-	-	=	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	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 Sumi	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	n budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	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.

Seconda	ry Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	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	Quantity	-	-	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:	Quantity	18	30	36	12	48	60	60	60	60
Secondary Distribution	Total Obligation Authority	247.400	273.850	469.305	125.184	594.489	662.413	656.599	653.494	663.204

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ0410 / Paladin Integrated Management (PIM)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210609A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-5	GZ0410 / Paladin Integrated Management (PIM)	P-5a, P-21	Α	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 enditems: 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:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 01 / 20

GZ0410 / Paladin Integrated Management (PIM)

GZ0410 / Paladin Integrated

Management (PIM)

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

D Gode (A-Service Ready) . 71			DAI MIAIO OOGC. 400	,		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	17	18	30	36	12	48
Gross/Weapon System Cost (\$ in Millions)	354.110	247.400	273.850	469.305	125.184	594.489
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	354.110	247.400	273.850	469.305	125.184	594.489
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	354.110	247.400	273.850	469.305	125.184	594.489

(The following Resource Summary Tows are for information	onal pulposes only. The con	responding budget request	s are documented eisewire	G.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	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.

	P	rior Years	S		FY 2015			FY 2016		F۱	/ 2017 Ba	se	F۱	/ 2017 OC	0	F۱	/ 2017 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost			'			'	'			'		'	'		'	'		
Recurring Cost	_																	_
SYS ENG/ PROG MGMT (CONTRACTOR)	-	-	6.585	-	-	6.118	-	-	2.909	-	-	10.303	-	-	3.434	-	-	13.7
SYSTEM TECHNICAL SUPPORT	-	-	35.823	-	-	34.804	-	-	0.530	-	-	55.947	-	-	5.642	-	-	61.5
SYS TEST & EVALUATION (CONTRACTOR)	-	-	10.224	-	-	11.082	-	-	1.480	-	-	1.363	-	-	0.454	-	-	1.8
SYS ENG/ PROG MGMT (GOVERNMENT)	-	-	35.218	-	-	18.046	-	-	6.694	-	-	23.996	-	-	2.419	-	-	26.4
SYS TEST & EVALUATION (GOVERNMENT)	-	-	1.410	-	-	1.398	-	-	0.205	-	-	2.882	-	-	0.291	-	-	3.1
TRANSPORTATION	-	-	0.263	-	-	-	-	-	0.140	-	-	0.587	-	-	0.059	-	-	0.6
Subtotal: Recurring Cost	-	-	89.523	-	-	71.448	-	-	11.958	-	-	95.078	-	-	12.299	-	-	107.3
Non Recurring Cost																		_
PRODUCTION FACILITIZATION	-	-	28.131	-	-	-	-	-	3.343	-	-	14.538	-	-	6.332	-	-	20.8
Subtotal: Non Recurring Cost	-	-	28.131	-	-	-	-	-	3.343	-	-	14.538	-	-	6.332	-	-	20.8
Subtotal: Flyaway Cost	-	-	117.654	-	-	71.448	-	-	15.301	-	-	109.616	-	-	18.631	-	-	128.2

LI GZ0410 - Paladin Integrated Management (PIM) Army

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P-1 Line #7

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.

	P	rior Years	3		FY 2015			FY 2016		FY	′ 2017 Bas	e	F۱	/ 2017 OC	0	FY	2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
MANUFACTURING ^(†)	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	361.27
GOVERNMENT FURNISHED EQUIPMENT (GFE)	-	-	11.327	-	-	10.841	-	-	15.955	-	-	24.318	-	-	8.106	-	-	32.42
THEATRE PROVIDED EQUIPMENT	-	-	2.339	-	-	-	-	-	3.686	-	-	3.512	-	-	-	-	-	3.5
RECURRING PRODUCTION - OTHER	-	-	2.848	-	-	2.515	-	-	1.258	-	-	4.457	-	-	-	-	-	4.4
ENGINEERING CHANGE ORDERS	-	-	9.952	-	-	7.312	-	-	5.539	-	-	22.452	-	-	2.263	-	-	24.7
Subtotal: Recurring Cost	-	-	204.190	-	-	154.956	-	-	246.886	-	-	325.694	-	-	100.687	-	-	426.3
Subtotal: Hardware Cost	-	-	204.190	-	-	154.956	-	-	246.886	-	-	325.694	-	-	100.687	-	-	426.3
Support Cost																		
TRAINING	-	-	3.187	-	-	3.534	-	-	1.141	-	-	4.346	-	-	0.438	-	-	4.7
DATA	-	-	20.288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUPPORT EQUIPMENT	-	-	1.702	-	-	1.506	-	-	0.752	-	-	2.663	-	-	0.268	-	-	2.9
INITIAL SUPPORT EQUIP (ISE)	-	-	0.320	-	-	-	-	-	1.326	-	-	4.774	-	-	0.481	-	-	5.2
NEW EQUIP TRAINING (NET)	-	-	0.601	-	-	-	-	-	2.545	-	-	11.370	-	-	1.146	-	-	12.5
CONTRACTOR LOGISTICS SUPPORT (CLS)	-	-	-	-	-	-	-	-	0.197	-	-	0.348	-	-	0.035	-	-	0.3
INITIAL SPARES (REPARABLES & CONSUMABLES	-	-	6.168	-	-	8.456	-	-	5.702	-	-	10.494	-	-	3.498	-	-	13.9
OTHERS	-	-	-	-	-	7.500	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support Cost	-	-	32.266	-	-	20.996	-	-	11.663	-	-	33.995	-	-	5.866	-	-	39.8
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	594.48

Seconda	ry 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

LI GZ0410 - Paladin Integrated Management (PIM) Army

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P-1 Line #7

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 Read	y): A		MDAP/MAIS Code	9: 466		
Secondar	y 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

^(†) 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
2555,(751725	CZO 11071 diadiii integrated management (i int)	Management (PIM)

Cost Elements	0 0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
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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1 2	2016	ARMY (II)	30	-	30													Α -	-	-	-	-	-	-	-	-	-	-	-
1 2	2017	ARMY (III)	48	-	48																								
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LI GZ0410 - Paladin Integrated Management (PIM) Army

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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)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFF						lni	tial			Red	rder	
Ref	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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
	BAE - York	2	5	10	-	2	16	18	-	6	16	22

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

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

Service/Agency Suffixes:

- (I) BASE
- (II) BASE
- (III) BASE

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

Modification of Tracked Combat Vehicles

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

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

It ---- MDAD/MAIO O--I-- NI/A

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(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 (Units in Each)	734	36	47	22	-	22	17	-	-	-	-	856
Gross/Weapon System Cost (\$ in Millions)	2,068.120	122.451	187.129	91.963	-	91.963	77.402	-	-	-	-	2,547.065
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,068.120	122.451	187.129	91.963	-	91.963	77.402	-	-	-	-	2,547.065
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,068.120	122.451	187.129	91.963	-	91.963	77.402	-	-	-	-	2,547.065
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	d elsewhere.)	1			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	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

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

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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	GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	P-5a, P-21	Α	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	- 1 -	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 cutin 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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							UN	ICLAS:	SIFIED)								
Exhibit P-5, Cost	Analysis	: PB 20	17 Army	,									1	Date: F	ebruary 2	2016		
Appropriation / B 2033A / 01 / 20	udget Ac	tivity /	Budget	Sub Acti	vity:		ine Item 570 / Imp				M88A2 H	ERCUL	LES)	GA0570	umber / 1 D / Improv 2 HERCU	ved Reco	DIC]: overy Veh	nicle
ID Code (A=Service Read	y, B=Not Servic	ce Ready): /	4						M	DAP/MAIS	Code:							
R	Resource	Summa	ary		F	Prior Yea	ars	FY 20	15	FY	2016	FY 2	2017 Bas	e F	Y 2017 (ОСО	FY 2017	Total
Procurement Quantity (Unit	ts in Each)						734		36		4	7		22		-		2:
Gross/Weapon System Co	st (\$ in Millions	s)				2,	068.120		122.451		187.129	9	91	.963		-		91.96
Less PY Advance Procure	ment (\$ in Milli	ions)					-		-		-			-		-		-
Net Procurement (P-1) (\$ ii	n Millions)					2,	068.120		122.451		187.129	9	91	.963		-		91.96
Plus CY Advance Procure	ment (\$ in Milli	ons)					-		-		-			-		-		-
Total Obligation Authorit	y (\$ in Millions)					2,	068.120		122.451		187.12	9	91	.963		-		91.96
(Th	ne following R	Resource Su	ımmary row	s are for info	rmational p	urposes only	. The corres	ponding bud	get request	s are docum	ented elsewh	ere.)				·		
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Un	it Cost (\$ in Ti	housands)				2,	817.602		3,401.417		3,981.46	3	4,180	.136		-		4,180.13
Note: Subtotals or Totals in	n this Exhibit	P-5 may no	t be exact o	or sum exactly	y due to rou	nding.				 .								
	P	rior Years	5		FY 2015			FY 2016		FY	2017 Base)	FY	2017 O	СО	F	Y 2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	(\$75)	(Eddin)	(ψ πη	(\$79	(Edon)	(ψ πη	(Φ19	(Eddi)	(\$ 111)	(\$19	(Euon)	(ψ π)	(\$79	(Edon)	(ψ π)	(\$79	(Eddin)	(\$ 111)
Recurring Cost																		
Vehicle Manufacturing - Contractor ^(†)	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	65.71
Vehicle Manufacturing - GFE	-	-	-	-	-	3.671	-	-	3.214	-	-	1.534	-	-	-	-	-	1.53
System Technical Support	-	-	-	-	-	-	-	-	21.115	-	-	13.681	-	-	-	-	-	13.68
Program Management	-	-	-	-	-	5.482	-	-	5.630	-	-	5.750	-	-	-	-	-	5.75
Transportation	-	-	-	-	-	-	-	-	1.529	-	-	0.730	-	-	-	-	-	0.73
Fielding (TPF & NET) Test (Production	-	-	-	-	-	-	-	-	0.448	-	-	0.214	-	-	-	-	-	0.21
Verification Testing)	-	-	-	-	-	-	-	-	2.934	-	-	0.952	-	-	-	-	-	0.95
M88A1 Hull Reclamation	-	-	-	-	-	5.349	-	-	7.100	-	-	3.388	-	-	-	-	-	3.38
Subtotal: Recurring Cost	-	-	2,068.120	-	-	122.451	-	-	187.129	-	-	91.963	-	-	-	-	-	91.96
Subtotal: Flyaway Cost	-	-	2,068.120	-	•	122.451	-	-	187.129	-	-	91.963	-	-	-	-	-	91.96
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	91.96
	Seco	ondary Dis	stribution				FY	2015		FY 2016		FY 2			FY 2017 OCO		FY 201 Total	

LI GA0570 - Improved Recovery Vehicle (M88A2 HERCULE... 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: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

ID Code (A=Service Ready, B=Not Service Read	iy) : A		MDAP/MAIS Code) :		
Secondar	y 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

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2017 A	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)

	O			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
Vehicle Manufacturing - Contractor ^(†)		2014	BAE Systems / York PA	SS / FFP	TACOM	Sep 2014	Oct 2015	53	2,887.038	Υ		
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	Υ		
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

	ub	it P-	-21, Pro	oducti	on Sc	hedul	e: Pl	3 201	7 Arm	ıy						_								Date	: Feb	ruary	2016	6		
			ation / I 1 / 20	Budge	t Acti	vity /	Bud	get S	ub Ac	tivity	•		l Line \0570						le (M8	88A2	HER	CULE	S)	GAC	Num 570 / 8A2 H	Impro	oved	Reco		ehicle
			Cost El (Units i	ements n Each)								Fiscal `	Year 2014											Fiscal Y	ear 2015					
1			· · · · · · · · · · · · · · · · · · ·		ACCEPT									C	alendar	Year 201	14								Calen	dar Year	2015			
M F R		FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
/ehic	le M	/lanufad	cturing - Co	ntractor																										
_	_		iveries: 681							-					-															
-	+-	_	ARMY (IV)	53	-	53												A -	-	-	-	-	-	-	-	-	-	-	-	-
_	_		ARMY (V)	36	-	36		_																	A -	-	-	-	-	-
_	_		ARMY ^(VI)	47	-	47																								
1	2		ARMY ^(VII)	22	-	22																								
1	2	017 F	FMS ^(‡) (VIII)	6	-	6																								
			MC ^{(‡) (IX)}	1	-	1																								
1	2	017 1	Total	29	-	29																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N N	n 1	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J L	A U G	S E P
							С	0	E		E	Α	P		U	U	U	E	C T	0	E	A	E	Α	P	A Y	U	Ü	U	Е

Exhi	bit	P-21, Pr	oducti	on Sc	hedul	e: PE	3 201	7 Arm	ıy														Date	: Feb	ruary	2016	3			
App i 2033	rop SA /	oriation / / 01 / 20	Budge	et Acti	vity /	Budg	jet Si	ıb Ac	tivity	:		Line (0570 /						e (M8	88A2	HERO	CULES	S)	GA0	Num 570 / 3A2 H	Impro	ved	Řeco۱		ehicle	е
		Cost E (Units	lements in Each)								Fiscal Ye	ear 2016									_		Fiscal Ye	ear 2017						
M D F				ACCEPT PRIOR TO 1	BAL DUE	0	N	D	J	<u>F</u>	М	A	М	alendar ` J	J	А	S E	0	N	D	J	F	М	Α	dar Year M	J	J	A	s	
C R	FY	SERVICE	PROC QTY	OCT 2015	AS OF 1 OCT	C T	0 V	E	A N	E B	A R	P R	A Y	U N	U L	U G	P	C T	o V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	
		nufacturing - Co	ntractor		<u>'</u>											<u> </u>								<u>'</u>						
		Deliveries: 681	1 1					1																						_
_		4 ARMY (IV)	53	-	53	2			3	3	3	4	4	4	4	4	4	4	4	4			1							_
-	201		36	-	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	<u> </u>
	201	1	47	-	47							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>
1	201		22	-	22																			A -	-	-	-	-		<u> </u>
1	201	7 FMS (‡)	6	-	6																			A -	-	-	-	-	-	
1	201	7 MC (‡) (IX)	1	-	1																			A -	-	-	-	-	-	
1	201	7 Total	29	-	29																			-	-	-	-	-	-	

LI GA0570 - Improved Recovery Vehicle (M88A2 HERCULE... Army

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Exh	ibi	it P-	-21, Pro	oducti	on Sc	hedu	le: PB	201	7 Arm	у														Date	e: Feb	oruary	2016	3			
			ation / 1 / 20	Budge	et Acti	vity /	Budg	et Su	ıb Ac	tivity:			Line 0570 <i>i</i>						le (M	88A2	HER	CULE	S)	GA0	Num 0570 / 8A2 H	Impr	oved	Reco		'ehicl	le
				lements in Each)			_	Fiscal Year 2018 Calendar Year 2018												Fiscal Y	ear 2019						Į,				
M O F C R				PROC	ACCEPT PRIOR TO 1 OCT		0 C	N O	D F	J A	F	M A	A P	М	J U	Year 20 J U	18 A U	S	0 C T	N O	D E	J	F	M A	Caler A P	M A	J	J	A U	S E	L A N
0 #		Y	SERVICE	QTY	2017	1 OCT	T	v	E C	A N	E B	A R	R	A Y	N	Ĺ	Ğ	E P	T	v	Ċ	A N	E B	A R	R	A Y	U N	Ĺ	Ğ	P	ì
Vehic	le M	anufad	cturing - Co	ntractor																											
	_	_	veries: 681		1																										_
1	20	_	ARMY (IV)	53	53	-																									
1	20		ARMY (V)	36	36	-																									
1	20)16	ARMY ^(VI)	47	-	47	-	-	3	3	3	3	3	4	4	4	4	4	4	4	4										
1	20)17	ARMY ^(VII)	22	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	2				
1	20)17 F	FMS ^(‡) VIII)	6	-	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1	20)17 N	MC ^{(‡) (IX)}	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1	20	17 1		29	1	28	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	2				

LI GA0570 - Improved Recovery Vehicle (M88A2 HERCULE... Army

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
	P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFI	۹					Init	ial					
Re		MSR For 2017	1-8-5 For 2017	MAX For 2017	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

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ3250 / Assault Bridge (Mod)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A Other Related Program Elements: N/A ID Code (A=Service Ready, B=Not Service Ready): 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 (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 Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)	•		<u>'</u>	
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.

Secondar	ry 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

LI GZ3250 - Assault Bridge (Mod) Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ3250 / Assault Bridge (Mod)

Modification of Tracked Combat Vehicles

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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ 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
				=>/.00/.0	=>/ 00/0	E\/ 0000	-1/22/		
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Exhibits Schedule Title*	Subexhibits	ID CD	Guantity / Total Cost (Each) / (\$ M)	Guantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Total Quantity / Total Cost (Each) / (\$ M)
		Subexhibits		Quantity / Total Cost					

^{*}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.

LI GZ3250 - Assault Bridge (Mod) Army

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

			-		5 - (/						
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 Sumi	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	1			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
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. 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.

				FY 2017	FY 2017	FY 2017				
Seconda	ry Distribution	FY 2015	FY 2016	Base	осо	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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LI GZ3250 - Assault Bridge (Mod) Army

P-1 Line #9

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Exhibit P-3a, Individual Modification: Pl	B 2017 Arm	У							Date: Feb	ruary 2016			
Appropriation / Budget Activity / Budge 2033A / 01 / 20	et Sub Activ	•	_	tem Numb Assault Brid					Modification Number / Title: GZ3250 / Assault Bridge Modifications				
Models of Systems Affected: Armored V Launch Bridge, Assault Breecher Vehicle	/ehicle	Modifi Insertic	• •	e: Equipm	ent Upgrad	le/Technica	al Re	lated RDT	&E PEs:				
	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	
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ I									
Procurement													
Modification Item 1 of 2: Armored Vehicle Launch Bridge MLC60 to MLC85													
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	- 1 -	60 / 364.7	
Subtotal: Recurring	- /338.976	- /1.125	- /1.250	- /2.941	- /5.950	- /8.891	- /5.103	- /1.801	- /2.580	- /5.033	- / -	- /364.7	
Subtotal: Armored Vehicle Launch Bridge MLC60 to MLC85	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 / 364.7	
Modification Item 2 of 2: Assault Breacher Vehicle												,	
A Kits													
Recurring													
Installation Kits	- 1 -	95 / 1.443	75 / 0.787	- / -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	170 <i>l</i> 2.2	
Subtotal: Recurring	- / -	- /1.443	- /0.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.2	
Subtotal: Assault Breacher Vehicle	- / -	95 / 1.443	75 / 0.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 2.2	
Subtotal: Procurement, All Modification Items	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 / 366.98	
Installation													
Modification Item 1 of 2: Armored Vehicle Launch Bridge MLC60 to MLC85	0 / 0.000	- / 0.400	3 / 0.424	3 / 0.424	- 1 -	3 / 0.424	21 / 0.568	12 / 0.496	4 / 0.432	6 / 0.448	- 1 -	49 / 3.19	
Modification Item 2 of 2: Assault Breacher Vehicle	0 / 0.000	- 1 -	- 1 -	20 / 0.100	- 1 -	20 / 0.100	50 / 0.184	50 / 0.184	50 / 0.184	- 1 -	- 1 -	170 / 0.65	
Subtotal: Installation	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 / 3.84	
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	_	370.83	

LI GZ3250 - Assault Bridge (Mod) Army UNCLASSIFIED
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Exhibit P-3a, Indivi	dual Modification: Pl	B 2017 Army				Date: February 2016	1		
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Numl GZ3250 / Assault Br			Modification Number GZ3250 / Assault Bri			
Modification Item 1 of 2	: Armored Vehicle Launch E	Bridge MLC60 to MLC85							
Manufacturer Information	on								
Manufacturer Name: Ann	iston Army Depot			Manufacturer Location: A	nniston Alabama				
Administrative Leadtime	(in Months): 4			Production Leadtime (in I	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

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)	Qty (Each) I 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	- 1 -	3 / 0.424	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3 / 0.424
FY 2016	0 / 0.000	- 1 -	- 1 -	3 / 0.424	- 1 -	3 / 0.424	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3 / 0.424
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	21 / 0.568	- 1 -	- 1 -	- 1 -	- 1 -	21 / 0.568
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	12 / 0.496	- 1 -	- 1 -	- 1 -	12 / 0.496
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	4 / 0.432	- 1 -	- 1 -	4 / 0.432
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	6 / 0.448	- 1 -	6 / 0.448
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- /0.400	3 / 0.424	3 / 0.424	- 1 -	3 / 0.424	21 / 0.568	12 / 0.496	4 / 0.432	6 / 0.448	- 1 -	49 / 3.192

Installation Schedule

			FY 2	015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	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	TC	Tot
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

LI GZ3250 - Assault Bridge (Mod) Army

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 Informati	uon						
Manufacturer Name: Pe	earson LTD			Manufacturer Location: N	lewcastle, UK		
Administrative Leadtime	e (in Months): 21			Production Leadtime (in I	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

metrica or implementation: various						,	,		,			
	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
Installation Cost	Qty (Each) I 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	- 1 -	- 1 -	20 / 0.100	- 1 -	20 / 0.100	50 / 0.184	25 / 0.184	- / 0.184	- 1 -	- 1 -	95 / 0.652
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	25 / -	50 / -	- 1 -	- 1 -	75 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	20 / 0.100	- 1 -	20 / 0.100	50 / 0.184	50 / 0.184	50 / 0.184	- 1 -	- 1 -	170 / 0.652

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	тс	Tot																								
In	-	-	-	95	-	-	-	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170
Out	-	-	-	-	-	-	-	-	-	-	-	-	20	12	13	13	12	12	13	13	12	12	13	13	12	-	-	-	-	-	170

LI GZ3250 - Assault Bridge (Mod) Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: G82925 / Assault Breacher Vehicle

Modification of Tracked Combat Vehicles

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

Item MDAP/MAIS Code(s): N/A 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 (Units in Each)	109	7	-	-	-	-	-	-	-	-	-	116
Gross/Weapon System Cost (\$ in Millions)	414.709	36.088	2.975	2.928	-	2.928	-	-	-	-	-	456.700
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	414.709	36.088	2.975	2.928	-	2.928	-	-	-	-	-	456.700
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	414.709	36.088	2.975	2.928	-	2.928	-	-	-	-	-	456.700
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	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	y 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:	Quantity	7	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	36.088	2.975	2.928	-	2.928	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: G82925 / Assault Breacher Vehicle

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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	- 1 -	- / 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.

UNCLASSIFIED

Date: February 2016 Exhibit P-5, Cost Analysis: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2033A / 01 / 20 G82925 / Assault Breacher Vehicle G82925 / Assault Breacher Vehicle ID 0 - -1 -

MDAD/MAIO Ossiss

ID Code (A=Service Ready, B=Not Service Ready):		ML	AP/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 informat	ional purposes only. The cor	responding budget requests	are documented elsewher	e.)		
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.

	P	rior Years	;		FY 2015			FY 2016		FY	′ 2017 Ba	se	FY	′ 2017 OC	0	FY	2017 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Tota Cost									
Flyaway Cost																		
Recurring Cost																		
Hardware ^(†)	3,422.000	109	372.998	2,899.000	7	20.293	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	
System Engineering/ Program Management	-	-	10.423	-	-	2.352	-	-	1.975	-	-	1.928	-	-	-	-	-	
Data	-	-	5.050	-	-	1.600	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	414.709	-	-	36.088	-	-	2.975	-	-	2.928	-	-	-	-	-	
Subtotal: Flyaway Cost	-	-	414.709	-	-	36.088	-		2.975	-	-	2.928	-	-	-	-	-	

LI G82925 - Assault Breacher Vehicle Army

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P-1 Line #10

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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

Date: February 2016

P-1 Line Item Number / Title:

G82925 / Assault Breacher Vehicle

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.

Note. Subtotals of Totals II	II UIIS EXIIIDIU	i -5 illay ilo	it be exact t	i Suili Exacti	y due to lou	nuing.												
	F	Prior Years	5		FY 2015			FY 2016		F	Y 2017 Ba	se	F	Y 2017 OC	0	F١	Y 2017 Tot	al
Cost Elements	Unit Cost	Qty (Fact)	Total Cost	Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost		Total Cost
	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)
Gross/Weapon System Cost	3,804.670	109	414.709	5,155.429	7	36.088	-	-	2.975	-	-	2.928	-	-	-	-	-	2.928

Secondar	y 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

^(†) indicates the presence of a P-5a

LI G82925 - Assault Breacher Vehicle Army

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Page 4 of 8

Exhibit P-5a, Procurement History and Planning: PB 2017 A	rmy	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	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
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

											UN	NCLA	ASSI	FIEC)													
Exhibit P-21,	Produ	ction Sc	hedul	e: PE	3 201	7 Arm	าy														Date	e: Feb	oruary	2016	3			
Appropriation 2033A / 01 / 20		lget Acti	vity /	Budç	get Si	ub Ac	tivity	' :	1 - '			Num ault B													[DOI eache	DIC]: er Veh	icle	
	Cost Elements (Units in Each)								Fiscal	Year 2015	5						,				Fiscal Y	/ear 2016						В
M		ACCEPT				1						Calendar	Year 20	15		1		1				Caler	ndar Year	2016				L
O F C R	M								M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
Hardware		<u>'</u>								1						,												
Prior Years Deliveries:	109																,				,							
1 2015 ARMY	X)	7 -	7									Α -	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	l
				O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

	opriation /			caa.	c. 1 D	201	7 Arm	У														Date	: Feb	oruary	2010)		
033A	A / 01 / 20	Budge	et Acti	vity /	Budg	et Sı	ıb Ac	tivity			Line 2925															[DOI eache		nicle
		lements in Each)								Fiscal Y	ear 2017	,										Fiscal Y	ear 2018					
M ACCEPT PRIOR BAL									(Calendar	Year 201	7								Caler	ıdar Year	2018						
FR	FY SERVICE	PROC QTY	TO 1 OCT 2016	DUE AS OF 1 OCT	O C T	N D J F M A M J J A S O E A E A P A U U U E V C N B R R Y N L G P							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P				
ardware	re																											
	ears Deliveries: 109	1																										
1 2	2015 ARMY ^(X)	7	4	3	1	1	1		_									1	_									
					O C T	N D J F M A M J J A S O E A E A P A U U U E V C N B R R Y N L G P							S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	D D	A U G	S E P			

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 01 / 20	G82925 / Assault Breacher Vehicle	G82925 / Assault Breacher Vehicle

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFF	R					lni	tial			Reo	rder	
Ref	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

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

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: G80571 / M88 FOV MODS

Modification of Tracked Combat Vehicles

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

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

Line item index /inale code: 14//	Item W.B	AI MIAIO GOO	10(3): 14// (
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)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)		- (
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	_	-	_	_	-	_	-	_	-	_

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.

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-

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

Program Elements for Code B Items: N/A

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: G80571 / M88 FOV MODS

Modification of Tracked Combat Vehicles

Other Related Program Elements: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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-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)					
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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LI G80571 - M88 FOV MODS

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

2000/1701720			000	301 1 1 WIOO	I OV WIODO	,			00007	7 10100 1 0	r i icia opgia	auc
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)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836
(The following	Resource Sum	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	- [-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Secondari	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Gecondary	Distribution	1 1 2010	1 1 2010	Dase		Total	1 1 2010	1 1 2013	1 1 2020	1 1 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	1.975	14.878	8.685	-	8.685	4.826	4.558	-	

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Exhibit P-3a, Individual Modification: Pl	B 2017 Arm	ıy							Date: Feb	ruary 2016	i	
Appropriation / Budget Activity / Budget 2033A / 01 / 20	t Sub Activ	vity:	P-1 Line I G80571 / I							ion Numbo M88 FOV I	er / Title: Field Upgra	ıde
Models of Systems Affected: M88		Modifi	cation Typ	e: Increas	e Performa	ance	Re	lated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Procurement												
Modification Item 1 of 1: Field Safety and Operational Modifications												
A Kits												
Recurring												
M88 FOV Mod Kit & Install	860 / 95.914	- 1 -	- 1 -	- 1 -	- / -	- / -	- 1 -	- / -	- / -	- / -	- 1 -	860 / 95.914
Field Safety & Operational Fixes STS	- 1 -	- /1.975	- / 14.878	- /8.685	- / -	- /8.685	- /4.826	- /4.558	- / -	- / -	- 1 -	- /34.922
Subtotal: Recurring	- /95.914	- /1.975	- /14.878	- /8.685	- / -	- /8.685	- /4.826	- /4.558	- / -	- / -	- / -	- /130.836

Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	95.914	1.975	14.878	8.685	-	8.685	4.826	4.558	-	-	-	130.836

- / -

- / -

- /8.685

- /8.685

- /4.826

- /4.826

- /4.558

- /4.558

- / -

- / -

- / -

- / -

- / -

- / -

860 / 130.836

860 / 130.836

- /8.685

- /8.685

Subtotal: Field Safety and Operational Modifications

Subtotal: Procurement, All Modification Items

Installation

860 / 95.914

860 / 95.914

- /1.975

- /1.975

- /14.878

- /14.878

Exhibit P-3a, Indivi	dual Modification: Pl	B 2017 Army				Date: February 2016	;
Appropriation / Buo 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu G80571 / M88 FC			Modification Number G80571 / M88 FOV I	
Modification Item 1 of 1.	Field Safety and Operation	nal Modifications	·				
Manufacturer Information	on						
Manufacturer Name: BAE	Land Systems			Manufacturer Location: Yo	ork, PA		
Administrative Leadtime (in Months): 6			Production Leadtime (in N	fonths): 12		
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 Implementati	on (Organic): Contractor in	nstalled in the field			Installation (Quantity: 0	

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

Program Elements for Code B Items: 0654804A

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ3001 / Joint Assault Bridge

Modification of Tracked Combat Vehicles

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	e(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 (Units in Each)	-	5	3	9	-	9	18	23	26	24	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	20.460	39.362	33.455	64.752	-	64.752	128.967	166.930	183.719	170.743	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	=	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	20.460	39.362	33.455	64.752	-	64.752	128.967	166.930	183.719	170.743	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	20.460	39.362	33.455	64.752	-	64.752	128.967	166.930	183.719	170.743	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request:	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	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

Seconda	ary 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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LI GZ3001 - Joint Assault Bridge Army

P-1 Line #12

Other Related Program Elements: N/A

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GZ3001 / Joint Assault Bridge

Modification of Tracked Combat Vehicles

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	- 1 -	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 20	17 Army	,									I	Date: Fe	ebruary 2	2016		
Appropriation / B 2033A / 01 / 20	udget A	ctivity /	Budget 9	Sub Acti	ivity:			n Number nt Assault								Fitle [DOI Assault Br		
ID Code (A=Service Read	y, B=Not Servi	ce Ready):							М	DAP/MAIS	Code:	K 33						
R	Resource	Summa	ary		F	Prior Yea	ars	FY 20	15	FY	2016	FY	2017 Bas	e F	Y 2017 (осо	FY 2017	Total
Procurement Quantity (Unit							-		5			3		9		-		
Gross/Weapon System Co		s)					20.460		39.362		33.4		64	.752		-		64.752
Less PY Advance Procure							-					-		-		-		
Net Procurement (P-1) (\$ ii	· · · · · · · · · · · · · · · · · · ·						20.460		39.362		33.4	55	64	.752		_		64.752
Plus CY Advance Procure		lions)					-					-	-	-		_		
Total Obligation Authorit	•						20.460		39.362		33.4	55	64	.752		-		64.752
(Th	ne following F	Resource Su	ummary rows	s are for info	rmational pu	urposes only	. The corres	ponding budg	get request	s are docume	ented elsev	here.)						
Initial Spares (\$ in Millions)							-		-			-		-		-		
Gross/Weapon System Un	it Cost (\$ in 7	Thousands)					-		7,872.400		11,151.6	67	7,194	.667		-		7,194.667
		-														I		
Note: Subtotals or Totals in	n this Exhibit	P-5 may no	t be exact o	r sum exactl	y due to rou	nding.												
	totals or Totals in this Exhibit P-5 may not be exact or sum exactly Prior Years				FY 2015			FY 2016		FY	′ 2017 Ba	se	FY	2017 OC	o	FY	2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	1			· · · · · · · · · · · · · · · · · · ·			1	· · · · · · · · · · · · · · · · · · ·		1			'			'	<u>'</u>	
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	4.22
Engineering Changes	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
System Engineering/ Program Management	-	-	-	-	-	2.000	-	-	2.000	-	-	2.145	-	-	-	-	-	2.14
Support Equipment	-	-	-	-	-	-	-	-	-	-	-	0.015	-	-	-	-	-	0.01
Fielding	-	-	-	-	-	0.300	-	-	0.200	-	-	0.582	-	-	-	-	-	0.582
Subtotal: Recurring Cost	-	-	20.460	-	-	35.550	-	-	22.150	-	-	63.713	-	-	-	-	-	63.713
Non Recurring Cost							ı								T	1 1		
Simulators	-	-	-	-	-	-	-	-	-	-	-	1.039		-	-	-	-	1.039
Logistics Products Subtotal: Non Recurring	-	-	-	-	-	3.812 3.812	-	-	11.305 11.305	-	-	1.039	-	-	-	-	-	1.039
Cost Subtotal: Flyaway Cost	_		20.460	_	_	39.362	_	_	33.455	_		64.752	_		_	-	-	64.75
Gross/Weapon System Cost	-	-	20.460	7,872.400	5	39.362	11,151.667	3	33.455	7,194.667	9			-	-	7,194.667	9	64.752
	Sec	ondary Di	stribution				FY 2015			FY 2016		FY 2 Bas			FY 2017 OCO		FY 201 Total	
Army		Qua	ntity						5		3		g			-		ę
				uthority				39.36			33.455		64.752					64.752

LI GZ3001 - Joint Assault Bridge 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: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge

ID Code (A=Service Ready, B=Not Service Read	y) .		IVIDAP/IVIAIS COUR	₽. ∧33		
Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Total:	Quantity	5	3	9	-	!
Secondary Distribution	Total Obligation Authority	39.362	33.455	64.752	-	64.75

^(†) indicates the presence of a P-5a

LI GZ3001 - Joint Assault Bridge UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 A	Army	Date: February 2016
1		Item Number / Title [DODIC]:
2033A / 01 / 20	GZ3001 / Joint Assault Bridge	GZ3001 / Joint Assault Bridge

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
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.

LI GZ3001 - Joint Assault Bridge Army

Ex	hibi	t P	-21, Pro	duct	ion Sc	hedu	le: PE	3 201	7 Arn	าy														Date	: Feb	ruary	2016	6			
			ation / I 1 / 20	Budge	et Acti	vity /	Budç	get S	ub Ac	ctivity	' :		Line 3001		-											ber / Joint					
				ements n Each)								Fiscal \	rear 2016	1										Fiscal Y	ear 2017						B A
			ACCEPT PRIOR BAI								Calendar Year 2016													Calen	ndar Year	2017				Ļ	
0 0 0			ACCEPT				F E B	M A R	A P R	M A	J	Ŋ	A U G	S E P	0 C	N O V	D E C	J A N	F E B	M A R	A P R	M A	J U N) J	A U G	S E P	A N C				
	dware		CERTICE	Q.	20.0	1.001				1			1 .		.,	_		•	•			.,				<u> </u>	.,			·	_
	1 20	15	ARMY	5	-	5						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-
	1 20	16	ARMY	3	-	3						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
	1 20)17	ARMY	9	-	9																		Α -	-	-	-	-	-	-	9
,							O C T	N O	D E	J A	F E B	M A	A P R	M A	J	n 1	A U G	S E	0 C T	N O V	D E	J A N	F E R	M A	A P	M A	J U N	J	A U G	S E	

	hibit P-21, Production Schedule: PB 2017 Army																Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 033A / 01 / 20												P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge												Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge							
Cost Elements (Units in Each) Fire										Fiscal Y	Fiscal Year 2018													Fiscal Year 2019							
N				ACCEPT PRIOR	BAL DUE AS OF 1 OCT		Calendar Year 2018											Calendar Year 2019													
O F C R O #	:	SERVICE	PROC QTY	TO 1 OCT 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	J U L	A U G	S E P	O C T	N O V	D E C	J A N	A E	M A R	A P R	M A Y	J U	J U L	A U G	S E P		
lard	ware	1																													
1	2015	ARMY	5	5	-																										
1		ARMY	3		3	1	1	1																							
1	2017	ARMY	9	-	9	-	-	-	1	1	1	1	1	1	1	1 1	<u> </u>							_							
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	U L	U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	n n	A U G	S E P		

LI GZ3001 - Joint Assault Bridge Army

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge

		Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MF	·R					Init	ial					
Re #		MSR For 2017	1-8-5 For 2017	MAX For 2017	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

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

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

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

Program Elements for Code B Items: N/A

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GA0700 / M1 Abrams Tank (MOD)

Other Related Program Elements: 0203735A

Modification of Tracked Combat Vehicles

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	=	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	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 Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	- [-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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, ontimizing, and modernizing the manufacturing facilities and equipment that support the Abrams tank IR

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	237.023	430.939	480.166	-	480.166	529.924	500.838	501.025	543.353

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LI GA0700 - M1 Abrams Tank (MOD) Army

P-1 Line #13

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Modification of Tracked Combat Vehicles

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GA0700 / M1 Abrams Tank (MOD)

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

LI GA0700 - M1 Abrams Tank (MOD)

Army

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Date: February 2016

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* Subo	bexhibits	ID CD	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	- 1 -	- / 480.166
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title* Subo	bexhibits	ID CD	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.

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

2033A / 01 / 20			GA	0700 / M1 A	ibrams I an	k (MOD)			GA0700	/ Mods		
_	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	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 Sum	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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 Evoluation Armor (NEA) packages which will be applied during ECP 1A vehicle recapitalization.

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

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.

				FY 2017	FY 2017	FY 2017				
Seconda	ary Distribution	FY 2015	FY 2016	Base	осо	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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

P-1 Line Item Number / Title:
GA0700 / M1 Abrams Tank (MOD)

Date: February 2016

Modification Number / Title:
GA0700 / Mods

Models of Systems Affected: Abrams Family of Vehicles

Modification Type: Increase Performance Related RDT&E PEs:

	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
Financial Plan	Qty (Each) I	Qty (Each) I										
	Total Cost (\$ M)	Total Cost (\$ /										
Procurement	1											
Modification Item 1 of 8: Prior Year Closed Mods												
A Kits												
Non-Recurring												
Other	0 / 2,842.053	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /2,842.05
Subtotal: Non-Recurring	- /2,842.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2,842.05
Subtotal: Prior Year Closed Mods	0 / 2,842.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2,842.05
Modification Item 2 of 8: Abrams Field Upgrades												
A Kits												
Recurring												
CROWS-LP A and B Kits & ICDU upgrade	- 1 -	- 1 -	315 / 44.516	150 / 13.403	- 1 -	150 / 13.403	150 / 13.670	145 / 13.563	145 / 13.834	150 / 14.509	- 1 -	1,055 / 113.49
VEM	- 1 -	- 1 -	45 / 5.758	60 / 7.828	- 1 -	60 / 7.828	60 / 7.984	55 / 7.465	55 / 7.614	60 / 8.472	- 1 -	335 / 45.12
Ammunition Data Link (ADL)	- 1 -	405 / 59.281	- 1 -	60 / 2.153	- 1 -	60 / 2.153	150 / 19.693	145 / 19.900	145 / 20.298	150 / 20.898	- 1 -	1,055 / 142.22
Maintenance Support Device Hard Drive	- 1 -	- 1 -	- 1 -	- / 0.510	- 1 -	- / 0.510	- / 0.027	- / 0.027	- / 0.028	- / 0.028	- / -	- / 0.62
Safety/Operational Mods	0 / 23.450	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 123.45
Support Equipment and TPF	0 / 51.633	- / 9.856	- <i>I</i> 14.683	- <i>I</i> 17.063	- 1 -	- / 17.063	- <i>I</i> 17.404	- <i>I</i> 17.752	- / 18.107	- <i>I</i> 18.469	- 1 -	- / 164.96
Mine Plow and Roller kit	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	36 / 0.657	36 / 0.670	36 / 0.684	36 / 0.698	- 1 -	144 / 2.70
Subtotal: Recurring	- /75.083	- /69.137	- /64.957	- /40.957	- / -	- /40.957	- / 59.435	- /59.377	- /60.565	- /63.074	- / -	- /492.58
Non-Recurring												
Installation Kits	0 / 283.400	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- /4,577.270	- /4,860.67
CROWS-LP Engineering Support	0 / 6.283	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /6.28
Subtotal: Non-Recurring	- /289.683	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /4,577.270	- /4,866.95
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 5,359.53
Modification Item 3 of 8: Engineering Change Proposal (ECP) 1A												-
A Kits												
Recurring												
ECP 1a Modification Kits	- 1 -	- 1 -	45 / 120.586	60 / 166.006	- 1 -	60 / 166.006	60 / 171.542	55 / 162.316	55 / 166.655	60 / 185.609	1,276 <i>l</i> 4,623.028	1,611 5,595.74
Subtotal: Recurring	- / -	- / -	- /120.586	- /166.006	- / -	- /166.006	- /171.542	- /162.316	- /166.655	- /185.609	- /4.623.028	- /5,595.74

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P-1 Line #13

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

Models of Systems Affected: Abrams Family of Vehicles Modification Type: Increase Performance Related RDT&E PEs:

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Subtotal: Engineering Change Proposal (ECP) 1A	- / -	- / -	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 5,595.74
Modification Item 4 of 8: Armor											,	1,111
A Kits												
Recurring												
Armor Sets	90 / 126.480	24 / 34.000	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	114 / 160.48
Next Generation Armor	- 1 -	- 1 -	45 / 68.270	60 / 73.134	- 1 -	60 / 73.134	60 / 74.090	55 / 70.368	55 / 76.504	60 / 85.856	1,276 <i>l</i> 2,712.868	1,611 3,161.09
Subtotal: Recurring	- /126.480	- /34.000	- /68.270	- /73.134	- / -	- /73.134	- /74.090	- /70.368	- /76.504	- /85.856	- /2,712.868	- /3,321.57
Non-Recurring												,
Installation Kits	821 / 526.800	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	821 / 526.80
Subtotal: Non-Recurring	- / 526.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 526.80
Subtotal: Armor	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 3,848.37
Modification Item 5 of 8: Program/Engineering Support				,								J
A Kits												
Recurring												
System Technical Support	0 / 174.468	- /49.429	- /65.263	- / 56.284	- 1 -	- / 56.284	- / 55.733	- / 52.792	- / 50.949	- / 52.081	- / 1,597.363	- /2,154.36
Government Program Support	0 /41.203	- /49.019	- /31.774	- / 31.944	- 1 -	- /31.944	- / 32.239	- / 32.533	- /33.093	- /34.011	- / 1,583.124	- / 1,868.94
Contractor Program Support	0 / 10.609	- 1 -	- /2.217	- /2.260	- 1 -	- /2.260	- /2.305	- /2.351	- /2.398	- /2.446	- / 99.396	- / 123.98
Government Test Support	0 / 2.942	- /2.969	- /8.973	- / 17.858	- 1 -	- / 17.858	- / 18.435	- / 16.814	- / 11.918	- / 15.815	- / 192.824	- / 288.54
Subtotal: Recurring	- /229.222	- /101.417	- /108.227	- /108.346	- / -	- /108.346	- /108.712	- /104.490	- / 98.358	- /104.353	- /3,472.707	- /4,435.83
Subtotal: Program/Engineering Support	0 / 229.222	- /101.417	- /108.227	- /108.346	- / -	- /108.346	- /108.712	- /104.490	- /98.358	- /104.353	- /3,472.707	- /4,435.83.
Modification Item 6 of 8: Power Pack Improvement & Integration Optimization				,								1
A Kits												
Recurring												-
System Technical Support	0 / 75.837	- /9.658	- / 14.895	- /14.303	- 1 -	- /14.303	- / 11.147	- / 10.180	- /9.194	- /9.450	- 1 -	- / 154.66
Subtotal: Recurring	- /75.837	- /9.658	- /14.895	- /14.303	- / -	- /14.303	- /11.147	- /10.180	- /9.194	- /9.450	- / -	- /154.66
Non-Recurring			ıl									J.
· J		,	,	,	- 1 -	- / -	- 1 -	- / -	- / -	- / -	- / -	2,691 / 930.30
Installation Kits	2,691 / 930.300	- 1 -	- / -	- / -	- / -	- / -	- / -	- <i> </i> -	- / -	- <i> </i> -	- / -	1 2.0911 930.300

LI GA0700 - M1 Abrams Tank (MOD) Army

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P-1 Line #13

Exhibit P-3a, Individual Modification: PB 2017 Army

Date: February 2016

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

2033A / 01 / 20 GA0700 / M1 Abrams Tank (MOD) GA0700 / Mods

Models of Systems Affected: Abrams Family of Vehicles Related RDT&E PEs:

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ N										
Subtotal: Power Pack Improvement & Integration Optimization	2,691 / 1,006.137	- /9.658	- /14.895	- /14.303	- / -	- /14.303	- /11.147	- /10.180	- /9.194	- /9.450	- / -	2,691 1,084.96
Modification Item 7 of 8: Training Devices	1	'							,		,	
A Kits												
Recurring												
Training Equipment Modifications	0 / 104.227	- / 10.463	- / 13.706	- / 19.613	- 1 -	- / 19.613	- /29.925	- / 17.369	- / 19.284	- /25.911	- 1 -	- / 240.49
Subtotal: Recurring	- /104.227	- /10.463	- /13.706	- /19.613	- / -	- /19.613	- /29.925	- /17.369	- /19.284	- /25.911	- / -	- / 240.49
Subtotal: Training Devices	0 / 104.227	- /10.463	- /13.706	- /19.613	- / -	- /19.613	- /29.925	- /17.369	- /19.284	- /25.911	- / -	- /240.49
Modification Item 8 of 8: Facilities Optimization and Maintenance												
A Kits												
Recurring												
Production Line Optimization	- 1 -	- <i>I</i> 12.348	- /40.298	- /14.031	- 1 -	- /14.031	- /20.375	- /22.848	- / 21.095	- / 19.455	- 1 -	- / 150.45
Subtotal: Recurring	- / -	- /12.348	- /40.298	- /14.031	- / -	- /14.031	- /20.375	- /22.848	- /21.095	- /19.455	- / -	- /150.48
Subtotal: Facilities Optimization and Maintenance	- / -	- /12.348	- /40.298	- /14.031	- / -	- /14.031	- /20.375	- /22.848	- /21.095	- /19.455	- / -	- /150.45
Subtotal: Procurement, All Modification Items	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 23,557.44
Installation												
Modification Item 3 of 8: Engineering Change Proposal (ECP) 1A	0 / 0.000	- 1 -	- 1 -	45 / 43.776	- 1 -	45 / 43.776	60 / 54.698	60 / 53.890	55 / 49.370	55 / 49.645	1,336 <i>I</i> 1,236.525	1,611 1,487.90
Subtotal: Installation	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 1,487.90
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	25,045.35

			UNCI	LASSIFIED						
Exhibit P-3a, Indivi	dual Modification: P	PB 2017 Army				Date: February 2016	3			
Appropriation / Bud 2033A / 01 / 20	dget Activity / Budg	et Sub Activity:		em Number / Title: Modification Number / Title: GA0700 / Mods						
Modification Item 1 of 8	: Prior Year Closed Mods		•			•				
Manufacturer Information	on									
Manufacturer Name: x				Manufacturer Location: x						
Administrative Leadtime ((in Months):			Production Leadtime (in M	Months):					
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021			
Contract Dates										
Delivery Dates										
Installation Information										
Method of Implementati	ion (Organic): x				Installation (Quantity: 0				
					·					

			UNCL	LASSIFIED						
Exhibit P-3a, Individ	ual Modification: Pl	B 2017 Army				Date: February 2016	3			
appropriation / Budg 033A / 01 / 20	get Activity / Budge	et Sub Activity:	P-1 Line Item Nu GA0700 / M1 Abr			Modification Number / Title: GA0700 / Mods				
odification Item 2 of 8:	Abrams Field Upgrades		'			•				
anufacturer Information	1									
anufacturer Name: Vario	us			Manufacturer Location: Va	arious					
dministrative Leadtime (in	Months):			Production Leadtime (in M	Months):					
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021			
ontract Dates										
elivery Dates										
stallation Information										
ethod of Implementation	n (Organic): Contractor T	eams (Contractor date	s will vary by item and canr	not be predicted.)	Installation	Quantity: 0				

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P-1 Line #13

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): 1	8

FY 2018

Mar 2018

Sep 2019

FY 2017

Mar 2017

Sep 2018

Installation Information

Dates

Contract Dates

Delivery Dates

Method of Implementation: X

FY 2015

FY 2016

Mar 2016

Sep 2017

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

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	017			FY 2	018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	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	TC	Tot
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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FY 2020

Mar 2020

Sep 2021

FY 2019

Mar 2019

Sep 2020

P-1 Line #13

FY 2021

Mar 2021

Sep 2022

Exhibit P-3a, Indivi	dual Modification: Pl	3 2017 Army				Date: February 2016)	
Appropriation / Bud 2033A / 01 / 20	dget Activity / Budge	t Sub Activity:		m Number / Title: Modification Number / 1 Abrams Tank (MOD) GA0700 / Mods				
Modification Item 4 of 8:	Armor					-		
Manufacturer Information	on							
Manufacturer Name: Dep	artment of Energy			Manufacturer Location: Va	arious			
Administrative Leadtime (in Months): 7			Production Leadtime (in M	fonths): 12			
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								
	on (Organic): Armor packa	iges will be applied dur	ing ECP 1A vehicle recapit	alization.	Installation	Quantity: 0		

Army

Exhibit P-3a, Indivi	dual Modification: Pl	B 2017 Army				Date: February 2016	i
Appropriation / Bu 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GA0700 / M1 Abr		Modification Number GA0700 / Mods	er / Title:	
Modification Item 5 of 8	: Program/Engineering Sup	port	1			-	
Manufacturer Informati	on						
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime	(in Months): 1			Production Leadtime (in M	fonths): 1		
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 Implementat	ion (Organic): x				Installation	Quantity: 0	

dget Sub Activity:	P-1 Line Item Nu GA0700 / M1 Abra				er / Title:			
ment & Integration Ontimiza		Number / Title: Modification Number / Title: GA0700 / Mods						
ment a megration optimiza	tion			·				
nsmission		Manufacturer Location: Ph	noenix, AZ and Indianap	olis, IN				
		Production Leadtime (in Months): 1						
FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021			
Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021			
Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021			
a -	Mar 2016	FY 2016 FY 2017 Mar 2016 Mar 2017	Production Leadtime (in N FY 2016 FY 2017 FY 2018 Mar 2016 Mar 2017 Mar 2018	Production Leadtime (in Months): 1 FY 2016 FY 2017 FY 2018 FY 2019	Production Leadtime (in Months): 1 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 Mar 2016 Mar 2017 Mar 2018 Mar 2019 Mar 2020			

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Exhibit P-3a, Indivi	dual Modification:	PB 2017 Army				Date: February 2016	3
	dget Activity / Budo		P-1 Line Item Nu GA0700 / M1 Abr	umber / Title: rams Tank (MOD)	-	Modification Numb GA0700 / Mods	er / Title:
Modification Item 7 of 8	: Training Devices		1			1	
Manufacturer Information	on						
Manufacturer Name: PEC	O Simulation, Training, an	d Instrumentation		Manufacturer Location: O	rlando, FL		
Administrative Leadtime	(in Months):			Production Leadtime (in I	Months):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
	,	•		,	•		1
Installation Information							
wethod of implementati	ion (Organic): Contractor	Support			Installation (auantity: ∪	

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P-1 Line #13

			UNCL	ASSIFIED					
Exhibit P-3a, Individ	dual Modification: Pl	3 2017 Army				Date: February 2016			
Appropriation / Bud 2033A / 01 / 20	Iget Activity / Budge	t Sub Activity:	P-1 Line Item Nu GA0700 / M1 Abra			Modification Number / Title: GA0700 / Mods			
Modification Item 8 of 8:	Facilities Optimization and	I Maintenance	•			•			
Manufacturer Informatio	n								
Manufacturer Name: X				Manufacturer Location: Jo	oint Systems Manufact	uring Center Lima, OH			
Administrative Leadtime (i	in Months):			Production Leadtime (in N	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	on (Organic): Various (Cor	ntractor dates will vary	by item and cannot be pred	licted)	Installation	Quantity: 0			

LI GA0700 - M1 Abrams Tank (MOD) Army UNCLASSIFIED
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P-1 Line #13

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GA0750 / Abrams Upgrade Program

Modification of Tracked Combat Vehicles

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 MD	AP/MAIS Cod	le(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 (Units in Each)	1,605	6	-	-	-	-	-	-	-	-	-	1,611
Gross/Weapon System Cost (\$ in Millions)	8,929.107	120.000	-	-	-	-	-	-	-	-	-	9,049.107
Less PY Advance Procurement (\$ in Millions)	2,064.494	-	-	-	-	-	-	-	-	-	-	2,064.494
Net Procurement (P-1) (\$ in Millions)	6,864.613	120.000	-	-	-	-	-	-	-	-	-	6,984.613
Plus CY Advance Procurement (\$ in Millions)	2,064.494	-	-	-	-	-	-	-	-	-	-	2,064.494
Total Obligation Authority (\$ in Millions)	8,929.107	120.000	-	-	-	-	-	-	-	-	-	9,049.107
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. Ti	he corresponding	g budget reques	ts are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	=	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	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	y 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:	Quantity	6	-	-	-	-	-	-	-	-
Secondary Distribution	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:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: GA0750 / Abrams Upgrade Program

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-5	GA0750 / Abrams Upgrade Program	P-5a, P-21	Α	1,605 / 8,929.107	6 / 120.000	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			1,605 / 8,929.107	6 / 120.000	- 1 -	- 1 -	- 1 -	- 1 -

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

Note: Totals in this Exhibit P-40 set may not be exact or 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.

Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

Date: February 2016

Item Number / Title [DODIC]:
GA0750 / Abrams Upgrade Program

GA0750 / Abrams Upgrade Program

ID Code (A=Service Ready, B=Not Service Ready) : A	·	М	OAP/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	-	-	-	-
(The following Resource Summary rows are for informati	onal purposes only. The cor	responding budget request	s are documented elsewhe	re.)		
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.

	P	rior Years	i		FY 2015			FY 2016		F۱	' 2017 Ba	se	FY	2017 OC	0	FY	2017 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	· · · · · · · · · · · · · · · · · · ·	'			<u>'</u>					·		'	<u>'</u>	'				
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	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	8,929.106	-	-	120.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	8,929.106	-	-	120.000	-	-	-	-	-	-	-	-	-	-	-	
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

ID Code (A=Service Ready, B=Not Service Read	y) : A		MDAP/MAIS Code	e:		
Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	6	-	-	-	-
	Total Obligation Authority	120.000	-	-	-	-
	Quantity	6	-	-	-	-
Secondary Distribution	Total Obligation Authority	120.000	-	-	-	-

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2017 A	ırmy	Date: February 2016
		Item Number / Title [DODIC]:
2033A / 01 / 20	GA0750 / Abrams Upgrade Program	GA0750 / Abrams Upgrade Program

Cost Elements	0 0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
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

Ex	hib	it P-2	21, Pro	ducti	on Sc	hedul	le: PE	3 201	7 Arm	ny														Date	: Feb	ruary	2016	,			
		opria:	tion / I / 20	Budge	et Acti	vity /	Budg	get S	ub Ac	ctivity	' :		Line .0750					ogram	1								Title ms Up			gram	ı
			Cost El (Units ii									Fiscal Y	ear 2014	ļ										Fiscal Y	ear 2015						E
	M ACCEPT PRIOR BAL													C	Calendar	Year 20	4								Calen	dar Year	2015] i
0 C 0	F R	FY S	ERVICE	PROC QTY	TO 1 OCT 2013	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C
		hicle						<u> </u>		<u>'</u>			<u>'</u>	'						,				,							
Pric	or Yea	ars Delive	eries: 1587																												
	1 2	2013 AF		12	-	12		es .										A -	-	-	-	-	-	-	1	1	2	2	2	1	\perp
4	1 2	2014 AF	RMY	6	-	6																							Α -	-	\perp
	1 2	2014 FN	лs ^(‡)	42	-	42																							A -	-	
	1 2	2014 To	tal	48	-	48																							-	-	
П	1 2	2015 AF	RMY	6	-	6																									
							O C	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U G	S E P	0 0 7	N O V	D E C	J A N	F E B	M A R	A P R	M A	J J	Ŋ	A U G	S E P	

														UN	ICLA	(55)	FIED	1												
Ex	hib	it P-	21, Pro	duct	ion Sc	hedul	e: PB	201	7 Arm	ıy														Date	: Feb	oruary	2016	6		
			tion / E / 20	Budg	et Acti	vity /	Budg	et Sı	ub Ac	tivity	:	1		Item / Abra				ogram	1							nber / Abra				gram
Cost Elements														Fiscal Y	ear 2017															
ACCEPT														1		Caler	ndar Year	2017		1	1									
	F R	FY S	SERVICE	PROC QTY			O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P
Bas	ic Ve	hicle																												
Basic Vehicle Prior Years Deliveries: 1587																														
Prior Years Deliveries: 1587 1 2013 ARMY 12 9 3 1																														
\rightarrow	_		RMY	6	-	6	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1								
	1 2	2014 FI	MS ^(‡)	42	-	42	-	-	-	6	6	6	6	6	6	6	-	-	-	-	-	-								
	_	2014 To		48	-	48	-	-	-	6	6	6	6	6	6	6	1	1	1	1	1	1			,				,	
\square	1 2	2015 A	RMY	6	-	6			,		,			Α -	-	-	-	-	-	-	-	-	1	1	1	1	1	1		
l							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
		Item Number / Title [DODIC]:
2033A / 01 / 20	GA0750 / Abrams Upgrade Program	GA0750 / Abrams Upgrade Program

		B	C B. C /F l. /	NA				B				
		Produc	tion Rates (Each /	Montn)				Procurement Lea	adtime (Months)			
МЕ	-R					lni	tial			Reo	rder	
Re		MSR For 2017	1-8-5 For 2017	MAX For 2017	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
	Name - Location	MISICI OI 2017	1-0-51 01 2017	WAX 1 OI 2017	11101 to Oct 1	Aiter Oct 1	1 -1	Aiter Oct 1	1 1101 to Oct 1	Aiter Oct 1	1 - 1	Aitel Oct I
	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 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:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 30: GA0050 / Production Base Support (TCV-WTCV)

Support Equipment & Facilities 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

Line item MDAI /MAIO OCUE. N/A	Itelli MD	AI /IIIAIO OOC	10(3). 14/7									
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)	372.458	6.478	6.129	-	-	-	-	-	-	-	-	385.065
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	372.458	6.478	6.129	-	-	-	-	-	-	-	-	385.065
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	372.458	6.478	6.129	-	-	-	-	-	-	-	-	385.065
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)	•	- (-		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-		-	-	-	_	-	-	-

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.

> **UNCLASSIFIED** Page 1 of 3

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 30: GA0050 / Production Base Support (TCV-WTCV)

Support Equipment & Facilities

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 CD	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	- 1 -	- 1 -	- 1 -

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

Note: Totals in this Exhibit P-40 set may not be exact or 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".

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

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 30

Date: February 2016

Aggregated Items Title:

GA0050 / Production Base Support (TCV-WTCV)

Various

												`								
			F	Prior Years	3		FY 2015			FY 2016		FY	/ 2017 Ba	se	F	Y 2017 OC	0	FY	2017 To	tal
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
PIF1 OMNIBUS(TCV-WTC	CV)										,									
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.

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G16101 / Integrated Air Burst Weapon System Family

Vehicles / BSA 10: Weapons & Other Combat Vehicles

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

Line item widar/wais code. N/A	Itelli MD	AF/IVIAIS COU	ie(5). IV/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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.780	-	-	9.764	-	9.764	14.852	24.930	32.158	25.798	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.780	-	-	9.764	-	9.764	14.852	24.930	32.158	25.798	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.780	-	-	9.764	-	9.764	14.852	24.930	32.158	25.798	Continuing	Continuing
(The following	Resource Sumr	nary rows are fo	or informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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.

Seconda	ary 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	15.479
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	6.980	11.717	13.185	10.319
AR	Quantity	-	-	-	-	-	-	-	31	-
	Total Obligation Authority	-	-	-	-	-	-	-	1.608	-
Total:	Quantity	-	-	-	-	-	-	-	31	-
Secondary Distribution	Total Obligation Authority	-	-	9.764	-	9.764	14.852	24.930	32.158	25.798

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G16101 / Integrated Air Burst Weapon System Family

P-1 Line #16

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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	G16101 / Integrated Air Burst Weapon System Family	P-5a, P-21	В	- / 0.780	- / -	- / -	- / 9.764	- / -	- / 9.764
P-40	Total Gross/Weapon System Cost			- / 0.780	- 1 -	- 1 -	- / 9.764	- 1 -	- / 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.

							UI	NCLAS	SILIE	,								
Exhibit P-5, Cost	Analysis	s: PB 20	17 Army	/										Date: F	ebruary 2	2016		
Appropriation / B 2033A / 02 / 10	udget A	ctivity /	Budget	Sub Act	ivity:		Line Item 101 / Inte			: Weapon :	System I	amily					DIC]: Burst Wea	apon
ID Code (A=Service Read	ly, B=Not Serv	ce Ready):I	В			'			М	DAP/MAIS	Code:							
F	Resource	Summ	ary			Prior Ye	ars	FY 20	015	FY	2016	FY	2017 Bas	se F	Y 2017 (ОСО	FY 2017	Total
Procurement Quantity (Uni	its in Each)						-		-		-			-		-		-
Gross/Weapon System Co	ost (\$ in Millior	s)					0.780		-		-		Ş	9.764		-		9.764
Less PY Advance Procure	ement (\$ in Mi	lions)					-		-		-			-		-		-
Net Procurement (P-1) (\$ i	in Millions)						0.780		-		-		9	9.764		-		9.764
Plus CY Advance Procure	ment (\$ in Mil	lions)					-		-		-			-		-		-
Total Obligation Authorit	t y (\$ in Millions	;)					0.780		-		-		9	9.764		-		9.76
(Ti	he following l	Resource Su	ımmary row	s are for info	rmational p	urposes onl	y. The corres	ponding bud	dget reques	ts are docume	ented elsewl	nere.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in	Thousands)					-		-		-		92	2.990		-		92.990
										-								
Note: Subtotals or Totals i				or sum exactl		ınding.	T											
	F	Prior Years			FY 2015	1		FY 2016	1	FY	2017 Bas		F	/ 2017 O		F	Y 2017 Tot	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost									1						1			
XM25 & TA/FC Mfg & Sys Integration ^(†)	-	-	-	-	-	-	-	-	-	41.257	105	4.332	-	-	-	41.257	105	4.33
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	4.332		-	-	-	-	4.33
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	4.332	-	-	-	-	-	4.33
Package Fielding Cost																		
Recurring Cost Total Package Fielding (TPF)	-	-	-	-	_	-	-	_	-	_	-	0.325	-	_	-	-	-	0.32
New Equipment Training (NET)	-	-	-	-	-	-	-	-	-	-	-	0.325	-	-	-	-	-	0.32
<u> </u>	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.65
Subtotal: Recurring Cost																		0.65
Subtotal: Recurring Cost Subtotal: Package Fielding Cost	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.00
Subtotal: Package Fielding	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.00
Subtotal: Package Fielding Cost	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.00
Subtotal: Package Fielding Cost Logistics Cost Recurring Cost Integrated Logistics Support (ILS)	-	-	-	-	-	-	-	-	-	-	-	0.235	-	-	-	-	-	0.23
Subtotal: Package Fielding Cost Logistics Cost Recurring Cost Integrated Logistics	-	- - -				-		-	-		-		-	- - -	-	-	-	0.23: 0.23:

LI G16101 - Integrated Air Burst Weapon System Famil... Army

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P-1 Line #16

Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 10

P-1 Line Item Number / Title:
G16101 / Integrated Air Burst Weapon System Family

G16101 / Integrated Air Burst Weapon System Family

System Family

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

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

	F	Prior Years	S		FY 2015			FY 2016		F١	/ 2017 Ba	se	F'	/ 2017 OC	0	F'	Y 2017 To	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Engineering Support in Production (ESIP)	-	-	-	-	-	-	-	-	-	-	-	0.675	-	-	-	-	-	0.67
Engineering Changes & System Eng	-	-	-	-	-	-	-	-	-	-	-	2.002	-	-	-	-	-	2.002
System Test & Evaluation	-	-	-	-	-	-	-	-	-	-	-	1.320	-	-	-	-	-	1.32
First Article Testing (FAT)	-	-	-	-	-	-	-	-	-	-	-	0.125	-	-	-	-	-	0.12
Program Management	-	-	0.780	-	-	-	-	-	-	-	-	0.425	-	-	-	-	-	0.42
Subtotal: Support Cost	-	-	0.780	-	-	-	-	-	-	-	-	4.547	-	-	-	-	-	4.54
Gross/Weapon System Cost	-	-	0.780	-	-	-	-	-	-	92.990	-	9.764	-	-	-	92.990	-	9.764

Secondar	y 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 A	ırmy	Date: February 2016
11 1 5 5 5		Item Number / Title [DODIC]: G16101 / Integrated Air Burst Weapon System Family

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
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

E	thi	bit I	P-21, Pro	oduct	ion Sc	hedu	le: P	B 201	7 Arm	ıy														Date	e: Fel	oruary	/ 2016	3			
			i ation / 1 02 / 10	Budg	et Acti	vity /	Bud	get Sı	ub Ac	tivity	:	1 -	1 Line 6101						on Sy	/stem	Fami	ily		G16	3101 <i>1</i>				DIC]: urst V	/eapc	n
				lements in Each)								Fiscal \	Year 2017	,										Fiscal Y	ear 2018	3					ВА
					ACCEPT									(Calendar	Year 20	17								Cale	ndar Yea	r 2018				L
0 0	M F R #	ACCEPT									F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	A N C E
ΧN	125	& TA/F	C Mfg & Sys I	ntegration	1				·		·					·				·			·								
	1	2017	ARMY	105	-	105			Α -	-	-	-	-	-	-	-	-	105		_											-
		2017 ARMY 105 - 105 A - -								F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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

		Procurement Leadtime (Months)										
MFR			lni	tial		Reorder						
Ref #	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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	-	-	-	-

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G02200 / Mortar Systems

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

Line item inda /inalo ocac. 11// (Item MB	AI /IIIAIO OOG	10(3): 14// (
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)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	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 Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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.

Seconda	ary 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:	Quantity	-	-	-	-	-	-	-	-	-
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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LI G02200 - Mortar Systems Army

P-1 Line #17

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G02200 / Mortar Systems

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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	G02202 / Mtr Wpn Sys	P-5a, P-21	Α	- / 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 Threater 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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LI G02200 - Mortar Systems Army

P-1 Line #17

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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 10

Date: February 2016

Item Number / Title [DODIC]:
G02200 / Mortar Systems

G02202 / Mtr Wpn Sys

ID Code (A=Service Ready, B=Not Service Ready): A		N	IDAP/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	6.01	12.021	8.332	22.410	30.742
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	336.273	6.01	12.021	8.332	22.410	30.742
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	336.273	6.01	12.021	8.332	22.410	30.742
(The following Resource Summary rows are for informati	onal purposes only. The cor	responding budget reque	sts are documented elsewher	re.)		
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.

	F	Prior Years	S		FY 2015			FY 2016		FY	2017 Bas	e	FY	2017 OC	0	FY	/ 2017 Tota	al
Cost Elements	Unit Cost	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	5.18
81mm Cannon Tubes	-	-	-	-	-	-	-	-	-	-	-	-	34.000	75	2.550	34.000	75	2.55
120mm Cannon Tubes	-	-	-	-	-	-	29.000	37	1.073	29.000	14	0.406	29.000	44	1.276	29.000	58	1.68
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	8.64
81mm Mortar System ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	46.000	75	3.450	46.000	75	3.45
120mm Mortar System ^(†)	-	-	-	-	-	-	57.000	37	2.109	57.000	14	0.798	57.000	44	2.508	57.000	58	3.30
Production Engineering	-	-	336.273	-	-	2.214	-	-	2.350	-	-	1.516	-	-	-	-	-	1.51
Fielding	-	-	-	-	-	0.600	-	-	0.550	-	-	0.300	-	-	0.626	-	-	0.92
Proof and Acceptance	-	-	-	-	-	0.350	-	-	0.595	-	-	0.500	-	-	0.600	-	-	1.10
Government ILS	-	-	-	-	-	0.350	-	-	0.350	-	-	0.378	-	-	-	-	-	0.37
Staging / Transportaion	-	-	-	-	-	0.400	-	-	0.500	-	-	0.350	-	-	0.250	-	-	0.60
Operations and New Equipment Training	-	-	-	-	-	0.520	-	-	0.518	-	-	0.500	-	-	0.160	-	-	0.66
FAT	-	-	-	-	-	-	-	-	0.605	-	-	-	-	-	0.750	-	-	0.75
81mm Bipod Retrofit	-	-	-	-	-	0.175	-	-	-	-	-	-	-	-	-	-	-	-

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P-1 Line #17

Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 02 / 10

Date: February 2016

Item Number / Title [DODIC]:

G02200 / Mortar Systems

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.

					,													
	F	Prior Years	S		FY 2015			FY 2016		FY	/ 2017 Ba	se	F'	Y 2017 OC	:0	F۱	Y 2017 To	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
60mm H&FM hard Stop Retrofit	-	-	-	-	-	0.091	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	336.273	-	-	6.012	-	-	12.021	-	-	8.332	-	-	22.410	-	-	30.742
Subtotal: Flyaway Cost	-	-	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

Secondar	y 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:	Quantity	-	-	=	=	-
Secondary Distribution	Total Obligation Authority	6.012	12.021	8.332	22.410	30.742

^(†) indicates the presence of a P-5a

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P-1 Line #17

Exhibit P-5a, Procurement History and Planning: PB 2017 A	ırmy	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

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
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 ^(†)	1	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	Υ		
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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rop				iicaa.	C. I L	201	7 Arm	ıy														Date	: Feb	ruary	2016	i			
3A <i>I</i>	02 / 10	Budg	et Acti	ivity /	Budg	get Sı	ıb Ac	tivity	•		Line 2200 <i>i</i>														Title Vpn S	[DOD ys	IC]:		
										Fiscal Y	ear 2016											Fiscal Ye	ear 2017						В
												C	alendar	Year 201	6								Calen	dar Year	2017				Ì
FY	SERVICE	PROC QTY	TO 1 OCT 2015	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	Z C C	J J	A U G	S E P	A N C E
n Morta	ar System																												
201	6 ARMY	41	-	41									Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
201	7 ARMY	216	-	216																		Α -	-	-	-	-	-	-	21
n Morta	ar System																												
201	7 ARMY	75	-	75																		Α -	-	-	-	-	-	-	7
m Mor	tar System																												
201	6 ARMY	37	-	37									Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
201	7 ARMY	58	-	58																		Α -	-	-	-	-	-	-	5
					O C T	N O V	D E C	N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N O C	n n	A U G	S E P	
ır	201 201 201 Morta 201 m Mor 201	FY SERVICE Mortar System 2016 ARMY 2017 ARMY Mortar System 2017 ARMY m Mortar System	FY SERVICE QTY	(Units in Each) ACCEPT	CUnits in Each CUNITS CUNITS	Cunits in Each Cuni	ACCEPT PRIOR TO 1 DUE O N	Cunits in Each Cunits in	Color Colo	ACCEPT	Continue Continue	Color Colo	ACCEPT	Control Cont	Cunits in Each Calendar Year 2016 Calendar Year 2017 Calendar Ye	ACCEPT	Control Cont	Cunits in Each Calendar Year 2016 Calendar Ye	ACCEPT	Contact Cont	Cunits in Each Calendar Year 2016 Calendar Y	Cunits in Each Fiscal Year 2016 Fiscal Year 2	Cunits in Each Fiscal Year 2016 Fiscal Year 2	ACCEPT PRIOR TOTAL PRIOR PRIOR PRIOR TOTAL PRIOR PRIOR TOTAL PRIOR PRIOR TOTAL PRI	Color Colo	Control Floor Fl	Control Cont	Color Fiscal Year 2016 Fis	Control Cont

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P-1 Line #17

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Ex	hibit F	P-21, Pro	oducti	on Sc	hedul	e: PB	2017	' Arm	y														Date	e: Fel	oruary	2016	3		
		iation / 02 / 10	Budge	et Acti	vity / l	Budg	et Su	b Act	tivity	:	1			Num ar Sy		Title:										Title Vpn S		DIC]:	
			lements in Each)								Fiscal Y	ear 2018											Fiscal Y	ear 2019)				
				ACCEPT									C	alendar '	Year 201	8								Cale	ndar Yea	2019			
0 C 0	R	SERVICE	PROC QTY	PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
60n	nm Mortar	System		'																			,				,	,	,
	1 2016	ARMY	41	-	41	20	21																						
	1 2017	ARMY	216	-	216	-	-	-	-	-	30	31	31	31	31	31	31												
81n	nm Mortar	System																											
✓	2 2017	ARMY	75	-	75	-	-	-	-	-	10	10	11	11	11	11	11												
120	mm Morta	r System																											
	3 2016	ARMY	37	-	37	20	17																						
	3 2017	ARMY	58	-	58	-	-	-	-	-	7	8	8	8	9	9	9							,			,		
						O C	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	n 1	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n 1	A U G	S E P

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P-1 Line #17

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
2035A 1 02 1 10	OUZZUUT WORLAN OYSLEMS	OUZZUZ I WILL WPIT OYS

		Product	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MFF	3					lni	tial			Reo	rder	
Ref	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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	1 TBS2 - TBD2	35	60	100	15	9	16	25	3	6	12	18
2	2 TBS2 - TBD2	35	60	100	15	9	16	25	3	6	12	18
3	3 TBS2 - TBD2	35	60	100	15	9	16	25	3	6	12	18

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

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

LI G02200 - Mortar Systems

Army

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G01501 / XM320 Grenade Launcher Module (GLM)

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Date: February 2016

Line Item MDAP/MAIS Code: N/A

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

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

Line item wdariwais code. N/A	Itelli MD	AF/IVIAIS COU	e(s). IV/A									
	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	183.719	27.892	26.294	3.062	-	3.062	18.578	20.324	19.866	19.848	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	183.719	27.892	26.294	3.062	-	3.062	18.578	20.324	19.866	19.848	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	183.719	27.892	26.294	3.062	-	3.062	18.578	20.324	19.866	19.848	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget request	s are documente	ed elsewhere.)			ĺ	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Second	ary 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	19.848
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.870	5.472	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.630	3.299	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	27.892	26.294	3.062	-	3.062	18.578	20.324	19.866	19.848

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G01501 / XM320 Grenade Launcher Module (GLM)

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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	G01501 / XM320 Grenade Launcher Module (GLM)	P-5a, P-21	Α	- / 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	- 1 -	- / 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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Date: February 2016 Exhibit P-5, Cost Analysis: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2033A / 02 / 10 G01501 / XM320 Grenade Launcher G01501 / XM320 Grenade Launcher Module (GLM) Module (GLM)

ID Code (A=Service Ready, B=Not Service Ready): A		MD	AP/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)	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 informa	tional purposes only. The corre	esponding budget requests	are documented elsewher	re.)		<i>f</i>
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.

	F	rior Years	;		FY 2015			FY 2016		FY	Y 2017 Ba	se	F	Y 2017 OC	ю	FY	/ 2017 Tot	al
Cost Elements	Unit Cost	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	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	158.764	-	-	23.423	-	-	22.432	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	158.764	-	-	23.423	-	-	22.432	-	-	-	-	-	-	-	-	-
Package Fielding Cost																		
Recurring Cost																		
Total Package Fielding (TPF)	-	-	3.199	-	-	0.310	-	-	0.315	-	-	0.300	-	-	-	-	-	0.300
Subtotal: Recurring Cost	-	-	3.199	-	-	0.310	-	-	0.315	-	-	0.300	-	-	-	-	-	0.300
Subtotal: Package Fielding Cost	-	-	3.199	-	-	0.310	-	-	0.315	-	-	0.300	_	-	-	-	-	0.300
Logistics Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 10

P-1 Line Item Number / Title:
G01501 / XM320 Grenade Launcher Module (GLM)

Bate: February 2016

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.

	F	Prior Years	3		FY 2015			FY 2016	_	F`	Y 2017 Ba	se	F`	Y 2017 OC	0	F'	Y 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Integrated Logistics Support (ILS)	-	-	1.777	-	-	0.145	-	-	0.148	-	-	0.050	-	-	-	-	-	0.050
Subtotal: Recurring Cost	-	-	1.777	-	-	0.145	-	-	0.148	-	-	0.050	-	-	-	-	-	0.050
Subtotal: Logistics Cost	-	-	1.777	-	-	0.145	-	-	0.148	-	-	0.050	-	-	-	-	-	0.050
Support - Program Manageme	ent Cost																	
Government Management	-	-	1.039	-	-	1.988	-	-	1.950	-	-	1.962	-	-	-	-	-	1.962
Subtotal: Support - Program Management Cost	-	-	1.039	-	-	1.988	-	-	1.950	-	-	1.962	-	-	-	-	-	1.96
Support - System Engineering	g Cost																	
System Engineering	-	-	15.103	-	-	1.312	-	-	0.699	-	-	0.450	-	-	-	-	-	0.450
Subtotal: Support - System Engineering Cost			15.103	-	-	1.312	-	-	0.699	-	-	0.450	-	-	-	-	-	0.450
Support - Training Cost																		
Equipment	-	-	3.836	-	-	0.714	-	-	0.750	-	-	0.300	-	-	-	-	-	0.300
Subtotal: Support - Training Cost			3.836	-	-	0.714	-	-	0.750	-	-	0.300	-	-	-	-	-	0.30
Gross/Weapon System Cost	-	-	183.719	-	-	27.892	-	-	26.294	-	-	3.062	-	-	-	-	-	3.062

Seconda	ry 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:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	27.892	26.294	3.062	-	3.062

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 A	ırmy	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)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	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.

Ext	hib	it P	P-21, Pro	oduct	on Sc	hedu	le: Pl	3 201	7 Arn	ıy														Date	e: Fel	bruar	y 2016	3			
	-	-	i ation / 1 02 / 10	Budg	et Acti	vity /	Bud	get Si	ub Ac	tivity	:		1501						Mod	dule (GLM)			G01		XM3	/ Title 20 Gr		DIC]: e Lauı	ncher	
				lements in Each)								Fiscal	ear 2014											Fiscal Y	ear 201	5					ВА
					ACCEPT									C	Calendar	Year 201	4								Cale	ndar Yea	r 2015] [
O F C F O #	-	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n 1	A U G	S E P	0 C T	N O V	D E C	N P C	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A N C E
M32	0A1	Grena	ade Launchei	r (GL)									'																		
1	1 2	2014	ARMY	2,804	-	2,804								Α -	-	-	-	-	-	1,000	1,000	804									
2	2 2	2014	ARMY	866	-	866																						Α -	-	-	8
2	2 2	2015	ARMY	8,115	-	8,115		_																			_	Α -	-	-	8,1
2	2 2	2016	ARMY	8,297	-	8,297																									8,2
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Ex	thi	bit F	P-21, Pro	oducti	on Sc	hedul	le: PE	3 201	7 Arm	ıy														Date	: Feb	ruary	2016	i			
•	•	•	iation / 1 02 / 10	Budge	t Acti	vity /	Budg	get Si	ub Ac	tivity	:	1				ber / ⁻ renade		ncher	Mod	ule (G	iLM)			G01		i ber / XM32 SLM)		-	_	ncher	
				lements in Each)								Fiscal Y	ear 2016											Fiscal Ye	ear 2017						В
					ACCEPT									C	alendar	Year 2016	3								Calen	dar Year	2017				L
0 C 0	R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
M3	20A	1 Gren	ade Launchei	r (GL)																											
	1	2014	ARMY	2,804	2,804	-																									
	2	2014	ARMY	866	-	866	-	-	-	-	-	-	-	-	150	160	185	188	183												
			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								,					Α -	-	-	-	-	-	-	1,230	1,267	1,300	1,400	1,500	1,6
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	U U J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	

														UN	ICL	ASSI	FIED)													
Ex	hil	bit F	P-21, Pr	oducti	ion Sc	hedu	le: PE	3 201	7 Arn	ny														Date	e: Fel	bruary	/ 2016	3			
_	-	_	iation / 02 / 10	Budge	et Acti	vity /	Budg	jet S	ub Ac	ctivity	' :	1 -	1 Line 1501						r Mod	dule (0	GLM)			G01		XM32	20 Gr	[DOI enade		ncher	
				lements in Each)								Fiscal	Year 2018	3										Fiscal Y	ear 2019)					В
					ACCEPT										Calenda	r Year 20	18				_				Caler	ndar Yea	r 2019				Ĺ
0 C 0	R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
M3:	20A1	1 Gren	ade Launche	r (GL)	1							1	1				1						ı								
	1	2014	ARMY	2,804	2,804	-																									
-	_		ARMY	866	866	_																									
_	_		ARMY	8,115	-			ı																							
	2	2016	ARMY	8,297	6,697	1,600	<u> </u>			T .	T _	T	Ι.		1 .	1 .	Π.			T		Ι.			1 .						-
							O C T	N O V	E C	A N	F E B	M A R	P R	M A Y	N U	U L	U G	S E P	O C T	N O V	E C	A N	F E B	M A R	P R	M A Y	U N	n n	U G	S E P	

Exhibit P-21, Production Schedule: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 10

P-1 Line Item Number / Title:
G01501 / XM320 Grenade Launcher Module (GLM)

Date: February 2016

Item Number / Title [DODIC]:
G01501 / XM320 Grenade Launcher Module (GLM)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MF	۱ ا					Init	tial			Reo	rder	
Re	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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
	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

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

ZING ROM MB/ R /MI/ RG GGGGT TI// R	item in	, a , an, ao o o o	10(0): 11// (
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)	-	-	-	0.992	-	0.992	9.488	8.472	6.396	11.808	-	37.156
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	0.992	-	0.992	9.488	8.472	6.396	11.808	-	37.156
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	0.992	-	0.992	9.488	8.472	6.396	11.808	-	37.156
(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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.

Seconda	ary 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:	Quantity	-	-	-	-	-	-	-	8	-
Secondary Distribution	Total Obligation Authority	-	-	0.992	-	0.992	9.488	8.472	6.396	11.808

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-5	G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM		В	- / -	- / -	- / -	- / 0.992	- / -	- / 0.992
P-40	Total Gross/Weapon System Cost			- 1 -	- 1 -	- 1 -	- / 0.992	- 1 -	- / 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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							Ui	ICLAS		,								
Exhibit P-5, Cost	Analysis	: PB 20	17 Army	/										Date:	ebruary :	2016		
Appropriation / B 2033A / 02 / 10	udget A	ctivity /	Budget	Sub Acti	vity:		Line Item 507 / COI			: UTOMAT	IC SNIPI	ER SYS	STEM	G0150	umber / ⁻ 7 / COMF R SYSTE	PACT SE		OITAMC
ID Code (A=Service Read	y, B=Not Servi	ce Ready):	В			I			М	DAP/MAIS	Code:		l					
R	esource	Summa	arv		F	Prior Ye	ars	FY 20)15	FY	2016	FY	2017 Bas	se	FY 2017 (осо	FY 2017	' Total
Procurement Quantity (Unit							-		-		-			-		-		
Gross/Weapon System Co		s)					-		-		-			0.992		-		0.99
Less PY Advance Procure	ment (\$ in Mil.	ions)					-		-		-			-		-		
Net Procurement (P-1) (\$ in	n Millions)						-		-		-			0.992		-		0.99
Plus CY Advance Procurer	ment (\$ in Mill	ions)					-		_		_			-		-		_
Total Obligation Authorit	y (\$ in Millions)					-		-		-			0.992		-		0.99
(Th	e following F	Resource Su	ummary row	vs are for info	rmational p	urposes onl	y. The corres	oonding bud	lget reques	ts are docume	ented elsewh	nere.)						
Initial Spares (\$ in Millions)							-		_		-			-		-		
Gross/Weapon System Un	it Cost (\$ in 7	housands)					-		-		-		1	5.030		-		15.03
																I		
Note: Subtotals or Totals in	n this Exhibit	P-5 may no	ot be exact of	or sum exactl	y due to rou	inding.				'					'			
	P	rior Years	3		FY 2015			FY 2016		FY	2017 Bas	е	F'	Y 2017 C	СО	F	Y 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	,,,,	, ,	, ,	, ,	, ,	, , ,	,,,,	, ,	. ,	,,,,	, ,	,,,,	, ,	, ,	, ,	, ,	, ,	. ,
Recurring Cost																		
Hardware	-	-	-	-	-	-	-	-	-	7.500	66	0.495	-		-	7.500	66	0.49
Program Management	-	-	-	-	-	-	-	-	-	-	-	0.165		-	-	-	-	0.16
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	0.232	-	-	-	-	-	0.23
Integrated Logistics Support (ILS)	-	-	-	-	-	-	-	-	-	-	-	0.025	-	-	-	-	-	0.02
Total Package Fielding (TPF)	-	-	-	-	-	-	-	-	-	-	-	0.025	-	-	-	-	-	0.02
New Equipment Training (NET)	-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.05
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.992			-	-	-	0.99
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	-	-	-	0.992	-		-	-	-	0.99
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	15.030	-	0.992	-		-	15.030	-	0.99
	Sec	ondary Di		1			FY	2015		FY 2016		FY 2 Ba			FY 2017 OCO		FY 20 ² Total	l
		Qua	ntity						-		-		-			-		-
Army		Tota	I Obligation A	uthority		ĺ			-		-		0.99	2		-		0.99

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 02 / 10	G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM
ID Code (A Control Porty B. Nys Control Porty) : B	MDAR/MAIS Code:	

ID Code (A=Service Ready, B=Not Service Read	y) . D		WIDAP/WIAIS COU	∌:		
Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	-	-	0.992	-	0.992

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G13501 / Carbine

Vehicles / BSA 10: Weapons & Other Combat Vehicles

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

Line item MDAP/MAIS Code. N/A	Itelli MD	AP/IVIAIS COU	e(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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	40.455	20.616	31.260	40.493	-	40.493	40.123	40.339	31.538	10.101	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	40.455	20.616	31.260	40.493	-	40.493	40.123	40.339	31.538	10.101	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	40.455	20.616	31.260	40.493	-	40.493	40.123	40.339	31.538	10.101	Continuing	Continuing
(The following	Resource Sumr	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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.

Second	ary 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	5.101
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.661	15.292	-	15.292	17.111	20.374	14.000	5.000
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	20.616	31.260	40.493	-	40.493	40.123	40.339	31.538	10.101

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Program Elements for Code B Items: N/A

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G13501 / Carbine

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Other Related Program Elements: N/A

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

ID Code (A=Service Ready, B=Not Service Ready): 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	Α	- / 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	- 1 -	- / 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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 P-1 Line #20
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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 10

Date: February 2016

Item Number / Title [DODIC]:
G13501 / Carbine

G13503 / M4A1 CARBINE

ID Code (A=Service Ready, B=Not Service Ready): A		N	DAP/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	20.610	31.260	40.493	-	40.493
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	40.455	20.610	31.260	40.493	-	40.493
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	40.455	20.61	31.260	40.493	-	40.493
(The following Resource Summary rows are for informati	onal purposes only. The corr	esponding budget reques	sts are documented elsewhe	re.)		<i>:</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.

	P	rior Years	i		FY 2015			FY 2016		FY	2017 Bas	e	FY	′ 2017 OC	:0	FY	2017 Tota	al
Cost Elements	Unit Cost	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	35.6
Colt's Royalty payment	-	-	0.335	-	-	0.158	-	-	0.354	-	-	0.946	-	-	-	-	-	0.9
3. M4A1 Rebaseline Test	-	-	-	-	-	1.820	-	-	1.200	-	-	-	-	-	-	-	-	,
4. M4A1 First Article Test	-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-	-	-	
RIA Workload Initiatve	-	-	-	-	-	1.101	-	-	-	-	-	-	-	-	-	-	-	
6. M4A1 Technical Manuals	-	-	-	-	-	0.021	-	-	0.140	-	-	0.200	-	-	-	-	-	0.2
Subtotal: Recurring Cost	-	-	38.416	-	-	17.456	-	-	26.675	-	-	36.738	-	-	-	-	-	36.7
Subtotal: Flyaway Cost	-	-	38.416	-	-	17.456	-	-	26.675	-	-	36.738	-	-	-	-	-	36.7
Package Fielding Cost																		
Recurring Cost																		
7. Total Package Fielding (TPF)	-	-	0.403	-	-	0.290	-	-	0.596	-	-	0.605	-	-	-	-	-	0.6
Subtotal: Recurring Cost	-	-	0.403	-	-	0.290	-	-	0.596	-	-	0.605	-	-	-	-	-	0.6
Non Recurring Cost																		
Integrated Logistics Support (ILS)	-	-	0.197	-	-	0.174	-	-	0.150	-	-	0.155	-	-	-	-	-	0.1

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P-1 Line #20

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

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2033A / 02 / 10 G13501 / Carbine 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.

	F	Prior Years	6		FY 2015			FY 2016		FY	/ 2017 Ba	se	F١	/ 2017 OC	0	FY	Y 2017 To	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Subtotal: Non Recurring Cost	-	-	0.197	-	=	0.174	-	=	0.150	-	-	0.155	-	-	-	-	-	0.155
Subtotal: Package Fielding Cost	-	-	0.600	-	-	0.464	-	-	0.746	-	-	0.760	-	-	-	-	-	0.760
Support - Program Managem	ent Cost																	
Government Management	-	-	1.026	-	-	1.255	-	-	2.384	-	-	1.526	-	-	-	-	-	1.526
Subtotal: Support - Program Management Cost	-	-	1.026	-	-	1.255	-	-	2.384	-	-	1.526	-	-	-	-	-	1.526
Support - System Engineering	g Cost					,				,		,						
System Engineering	-	-	0.413	-	-	1.440	-	-	1.460	-	-	1.470	-	-	-	-	-	1.470
Subtotal: Support - System Engineering Cost	-	-	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

Seconda	ry 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:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	20.616	31.260	40.493	-	40.493

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 02 / 10

Date: February 2016

Item Number / Title [DODIC]:
G13501 / Carbine

G13503 / M4A1 CARBINE

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Cost Elements		г	Contractor and Location	Fulluling Verlicie	Location of PCO	Date	Delivery	(Each)	(\$ K)	NOW:	Available	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	Υ		
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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 P-1 Line #20
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Exhibit P-21, Production Schedule: PB 2017 Army Date: February 2016 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 2033A / 02 / 10 G13501 / Carbine G13503 / M4A1 CARBINE Cost Elements В Fiscal Year 2014 Fiscal Year 2015 (Units in Thousands) Α ACCEPT Calendar Year 2014 Calendar Year 2015 М PRIOR BAL 0 TO 1 DUE 0 D s C PROC OCT AS OF С 0 Е Ε Α Р U Ü E С 0 Е Ε Ü U U E С R Α Α Α 0 FY SERVICE QTY 2013 1 OCT R R Υ L G Ρ ٧ Ν В R R Ν G Р 1. M4A1 Carbine 1 2013 ARMY 24.000 24.000 2.000 4.800 Α -2.200 3.000 3.000 3.000 3.000 3.000 ---2013 NAVY (‡) 2.653 2.653 Α -_ _ _ -1.200 1.453 2013 7.048 7.048 Α -2.200 1.000 .848 3.000 1 2013 33.701 33.701 2.200 3.000 3.000 4.800 Total 2.200 2.301 3.000 2.000 3.000 3.000 3.000 _ 2.200 28.964 2014 28.964 28.964 Α -MC (‡) 1.789 2014 1.789 1.789 Α -2014 4.597 4.597 4.597 1 2014 Total 35.350 35.350 35.350 2015 17.953 17.953 Α -17.953 2015 NAVY (‡) 1.000 1.000 A -1.000 _ 2015 .400 .400 .400 Α -2015 .786 .786 Α -.786 2015 Total 20.139 20.139 20.139 2 2015 ARMY 4.300 4.300 4.300 2016 ARMY 19.011 19.011 19.011 2016 ARMY 19.012 19.012 19.012 2 2016 .672 .672 .672 2 2016 .800 .800 .800 2 2016 .100 .100 .100 2 2016 Total 20.584 20.584 20.584 ARMY 26.720 26.720 26.720 2017 2 2017 ARMY 26.721 26.721 26.721 NAVY (‡) 2 2017 .800 .800 .800 2 2017 MC (‡) 4.087 4.087 4.087 2 2017 .200 .200 .200 2 2017 Total 31.808 31.808 31.808 M A 0 0 D E A P A U S N O A U E Ū E Ū U 0 Α U Е Α Α Α Е Ĺ G

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P-1 Line #20

Exhibit P-21, Production Schedule: PB 2017 Army Date: February 2016 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 2033A / 02 / 10 G13501 / Carbine G13503 / M4A1 CARBINE Cost Elements В Fiscal Year 2016 Fiscal Year 2017 (Units in Thousands) Α **ACCEPT** Calendar Year 2016 Calendar Year 2017 М PRIOR BAL 0 TO 1 DUE C PROC AS OF С 0 Е Ε Α Р U Ü E Ċ 0 Е Е Ü Ü U E С R OCT Α 0 FY SERVICE QTY 2015 1 OCT ν R R L G Р R R Ν G Е 1. M4A1 Carbine 2013 ARMY 24.000 4.800 1.000 .600 1 19.200 1.000 1.000 1.200 NAVY (‡) 2.653 2.653 2013 7.048 7.048 -_ 2013 Total 33.701 28.901 4.800 1.000 1.000 1.000 .600 1.200 2.826 2.263 .864 2014 28.964 28.964 2.500 3.000 3.000 3.000 3.000 3.125 3.125 2.261 MC (‡) 1.789 2014 1.789 .600 .100 .121 .968 2014 4.597 4.597 .597 .597 .597 1.000 1.000 .806 1 2014 35.350 35.350 2.500 3.000 3.000 3.000 3.600 3.822 3.843 3.826 3.263 3.826 1.670 2015 17.953 17.953 .600 3.030 3.200 3.700 3.203 1.000 1.000 1.000 1.000 .220 1.000 1.000 .100 .200 .200 2015 .200 .300 2015 .400 .100 .100 .100 .400 .100 2015 .786 .786 .786 2015 Total 20.139 20.139 .600 3.030 3.200 3.900 3.503 1.300 1.300 2.086 1.000 .220 2 2015 ARMY 4.300 4.300 .100 .500 2.700 .850 .150 2016 ARMY 19.011 19.011 Α -.100 .500 4.205 4.206 5.000 5.000 2 2016 ARMY 19.012 19.012 Α -2.090 4.000 4.000 4.200 4.300 2 2016 .672 .672 Α -.100 .172 .100 .100 .200 2 2016 .800 .800 Α -.650 .150 2 2016 .100 .100 .100 Α -2 2016 Total 20.584 20.584 2.090 4.000 4.000 4.200 4.300 .622 .172 .100 .100 .350 .650 ARMY 26.720 26.720 2.420 24.300 2017 A -_ 2 2017 26.721 Α -ARMY 26.721 2.331 24.390 2 NAVY (‡) .800 .800 A -.800 2017 MC (‡) 2017 4.087 4.087 Α -4.087 2 .200 Α -.200 2017 .200 2 2017 Total 31.808 31.808 2.331 29.477 0 D A P s Α Č U 0 Ε Ε Α Α U U Ε 0 Ε Α Е Α Α U U U Е R R Υ v Р L т Ν G

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_	<i>I</i> 02 <i>I</i> 10	3 -	et Acti	vity /	Budg	jet Su	ıb Ac	tivity	:		Line 3501 /		Numl ine	ber/	Title:									nber / M4A					
)							Fiscal Ye	ar 2018											Fiscal Y	ear 2019						В
			ACCEPT									С	alendar \	Year 201	В								Cale	ndar Year	2019				L
F	Y SERVICE	PROC QTY	TO 1 OCT 2017	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A N C E
41 C	arbine															· ·									<u> </u>		· ·		
20	13 ARMY	24.000	24.000	-																									
20	13 NAVY ^(‡)	2.653	2.653	-																									
20	13 AF ^(‡)	7.048	7.048	-																									
20	13 Total	33.701	33.701	-																									
20	14 ARMY	28.964	28.964	-																									
20	14 MC ^(‡)	1.789	1.789	-																									
20	14 AF ^(‡)	4.597	4.597	-																									
20		35.350	35.350	-																									
20	15 ARMY	17.953	17.953	-																									
20	15 NAVY ^(‡)	1.000	1.000	-																									
20	_	.400	.400	-																									
	_																												
-	_																												
		19.011		-																									
-		19.012	19.012	-	-	-																							
20	16 NAVY (‡)	.672	.672	-	-	_																							
20		.800	.150	.650	.300	.350																							
	_																												
	1			-																									
							2 425	2 425	2 425	2 430	2 435	2 430	2 430	2 450															
		.800	-	.800	-	-			-	-	-	-	-	-															
						_						680		682															
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					С	0	E	Α	E	Α	Р	Α	U	Ü	U	E	č	0	E		E	A	P	A	U	U	U	E	
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 LI G13501 - Carbine
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 P-1 Line #20
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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
77 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Item Number / Title [DODIC]: G13503 / M4A1 CARBINE

			Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
М	FR						lni	tial			Reo	rder	
R	Ref	Manufacturer				ALT	ALT	Manufacturing	Total	ALT	ALT	Manufacturing	Total
	#	Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	Prior to Oct 1	After Oct 1	PLT	After Oct 1	Prior to Oct 1	After Oct 1	PLT	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).

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G04700 / Common Remotely Operated Weapons Station

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Date: February 2016

Line Henry MDAD/MAIO On des NI/A

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,248.945	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-	-	2,342.520
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,248.945	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-	-	2,342.520
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,248.945	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-	-	2,342.520
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Secondar	y 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	14.149	33.750	25.164	-	25.164	12.265	8.247	-	-

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G04700 / Common Remotely Operated Weapons Station

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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	G04700 / Common Remotely Operated Weapons Station	P-5a	Α	- / 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	- 1 -	- / 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

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 10

P-1 Line Item Number / Title:
G04700 / Common Remotely Operated Weapons Station

Bate: February 2016

Item Number / Title [DODIC]:
G04700 / Common Remotely Operated Weapons Station

Weapons Station

ID Code (A=Service Ready, B=Not Service Ready): A		M	DAP/MAIS Code:			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,248.945	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 information	onal purposes only. The con	responding budget reques	ts are documented elsewher	re.)		
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.

	P	rior Years	S		FY 2015			FY 2016		FY	' 2017 Bas	e	FY	′ 2017 OC	0	FY	2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Tota Cost
yaway Cost	'		·	'	'		· · · · · · · · · · · · · · · · · · ·	<u>'</u>		'	'					'		
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.
Platform Integration Kits ^(†)	-	-	51.336	3.698	630	2.330	5.000	310	1.550	5.000	200	1.000	-	-	-	5.000	200	1
Appended Trainers ^(†)	-	-	4.998	10.000	80	0.800	10.000	350	3.500	10.000	50	0.500	-	-	-	10.000	50	0
Diagnostic Kits	-	-	4.125	55.000	20	1.100	46.000	10	0.460	40.000	15	0.600	-	-	-	40.000	15	0
Engineering Support	-	-	180.342	-	-	1.339	-	-	2.268	-	-	2.438	-	-	-	-	-	2
Program Management Support	-	-	18.035	-	-	0.635	-	-	1.200	-	-	1.150	-	-	-	-	-	1
Integrated Logistics Support	-	-	45.654	-	-	0.200	-	-	0.252	-	-	0.252	-	-	-	-	-	C
Total Package Fielding	-	-	64.055	-	-	2.235	-	-	4.390	-	-	2.200	-	-	-	-	-	2
Contractor Field Service Representatives	-	-	24.896	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
First Destination Transportation	-	-	3.979	-	-	0.010	-	-	0.030	-	-	0.020	-	-	-	-	-	(
Spares/Repair Parts	-	-	101.014	-	-	-	-	-	7.000	-	-	5.604	-	-	-	-	-	5

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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 10

P-1 Line Item Number / Title:
G04700 / Common Remotely Operated Weapons Station

G04700 / Common Remotely Operated Weapons Station

Date: February 2016

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.

	F	Prior Years	6		FY 2015			FY 2016		F	1 2017 Ba	se	F	Y 2017 OC	0	F'	Y 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
New Equipment Training	-	=	36.997	-	-	0.500	-	-	1.100	-	-	1.400	-	-	-	-	-	1.400
Subtotal: Recurring Cost	-	-	2,248.945	-	-	14.149	-	-	33.750	-	-	25.164	-	-	-	-	-	25.164
Subtotal: Flyaway Cost	-	-	2,248.945	-	-	14.149	-	-	33.750	-	-	25.164	-	-	-	-	-	25.164
Gross/Weapon System Cost	-	-	2,248.945	-	-	14.149	-	-	33.750	-	-	25.164	-	-	-	-	-	25.164

Secondar	y 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:	Quantity	-	-	=	=	-
Secondary Distribution	Total Obligation Authority	14.149	33.750	25.164	-	25.164

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2017 Army

ivity: F

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

Cost Elements	0 0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue
CROWS Post-Production Conversions		2015	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Apr 2015	Feb 2016	254	19.685	Υ		
CROWS Post-Production Conversions		2016	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Apr 2016	Feb 2017	600	20.000	Υ		
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	Υ		
Platform Integration Kits		2015	Choctaw Manufacturing Defense / Antlers, OK	C / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2015	Sep 2015	315	3.698	Υ		
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	Υ		
Appended Trainers		2015	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2015	Oct 2015	80	10.000	Υ		
Appended Trainers		2016	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2016	Oct 2016	350	10.000	Υ		
Appended Trainers		2017	Kongsberg Protech Systems USA / Johnstown, PA	SS / FFP	ACC-Picatinny, Picatinny, NJ	Mar 2017	Oct 2017	50	10.000	Υ		

Remarks:

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

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GB3000 / MK-19 Grenade Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283
(The following	(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)	-	-	-	-	-	-	-	-	-	-	-	-

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 levers, and improved mechanical sights. The Fire Control Unit (FCU) provides adapting capability 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 hel

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Other Related Program Elements: N/A

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GB3000 / MK-19 Grenade Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

ID Code (A=Service Ready, B=Not Service Ready): B 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* Sul	ubexhibits	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	- 1 -	- 1 -	- / 4.959	- 1 -	- / 4.959
	Exhibits Schedule			E)/ 00/10	=>/ 00/0	E)/ 0000	E)/ 0004		T-4-1
	Exhibits offiedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type		ubexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	FY 2019 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)
		ubexhibits		Quantity / Total Cost	Quantity / Total Cost	Quantity / Total Cost	Quantity / Total Cost	Quantity / Total Cost	Quantity / Total Cost

Program Elements for Code B Items: 0604601A

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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^{*}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.

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

2033A / 02 / 20			GB	GB3000 / MK-19 Grenade Machine Gun MODS GI							GB30007 Tripods			
	Prior	->//-		FY 2017	FY 2017	FY 2017	- 3/ 00/10	->/ /-	- 3/2000	->//	То			
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total		
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	_		
Gross/Weapon System Cost (\$ in Millions)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283		
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P-1) (\$ in Millions)	36.854	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985	-	72.283		
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	_		

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.

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	4.959	-	4.959	5.061	5.161	5.263	14.985

Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20

P-1 Line Item Number / Title:
GB3000 / MK-19 Grenade Machine Gun MODS

GB3000 / Tripods

Models of Systems Affected: MK-19 Grenade

Modification Type: Increase Performance

Related RDT&E PEs:

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) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ A
				-							
1,568 / 29.086	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1,568 / 29.0
0 / 3.200	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /3.2
0 / 0.850	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.8
0 / 0.750	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.7
- /33.886	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /33.8
1,568 / 33.886	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,568 / 33.8
1				1							
666 / 2.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	666 / 2.0
0 / 0.200	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.2
0 / 0.100	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.1
0 / 0.068	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.0
- /2.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.3
666 / 2.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	666 / 2.3
			I	I	I	I	1	I	I		
											-
160 / 0 400	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	160 / 0.4
				·				- / -			- /0.2
- /0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /0.6
160 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 0.6
					·				·		
 											-
-											
, ,	1	,	1 239 / 2 402	,	1 220 / 2 402	064 / 4 600	052 / 4 745	260 / 0 500	3 147 / 5 000	1	6.567 / 11.9
_			<u> </u>		· ·	-	-		-,	ļ	- /4.7
	Qty (Each) I Total Cost (\$ M) 1,568 / 29.086 0 / 3.200 0 / 0.850 0 / 0.750 - / 33.886 1,568 / 33.886 1,568 / 33.886 0 / 0.200 0 / 0.100 0 / 0.200 0 / 0.068 - / 2.368 666 / 2.368	Qty (Each) / Total Cost (\$ M) Qty (Each) / Total Cost (\$ M) 1,568 / 29.086 - / - 0 / 3.200 - / - 0 / 10.850 - / - - / 33.886 - / - 1,568 / 33.886 - / - 0 / 0.200 - / - 0 / 0.200 - / - 0 / 0.068 - / - - / 2.368 - / - 666 / 2.368 - / - 160 / 0.400 - / - - / 0.600 - / - - / 0.600 - / -	Qty (Each) I Total Cost (\$ M) 1,568 / 29.086 - I -	Prior Years FY 2015 FY 2016 Base	Prior Years FY 2015 FY 2016 Base OCO Qty (Each) I Total Cost (\$M) Qty (Each) I Total Cost (\$M)	Prior Years FY 2015 FY 2016 Base OCO Total	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020	Prior Years	Prior Years FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete Oty (Each) Oty (Each)

LI GB3000 - MK-19 Grenade Machine Gun MODS Army

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Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 02 / 20

Date: February 2016

P-1 Line Item Number / Title:

GB3000 / MK-19 Grenade Machine Gun MODS

GB3000 / Tripods

Models of Systems Affected: MK-19 Grenade

Machine Gun & M2 50 Cal Machine Gun

Modification Type: Increase Performance

Related RDT&E PEs:

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Integrated Logistical Support	- 1 -	- 1 -	- 1 -	- / 0.150	- 1 -	- / 0.150	- / 0.100	- / 0.100	- / 0.100	- / 0.150	- / -	- / 0.600
First Destination Transportation	- 1 -	- 1 -	- 1 -	- / 0.020	- 1 -	- /0.020	- / 0.020	- / 0.020	- /0.020	- / 0.020	- / -	- / 0.100
Testing	- 1 -	- 1 -	- 1 -	- / 0.200	- 1 -	- / 0.200	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.200
Testing (First Article)	- 1 -	- 1 -	- 1 -	- / 0.800	- 1 -	- / 0.800	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.80
Engineering Study	- 1 -	- 1 -	- 1 -	- / 0.500	- 1 -	- / 0.500	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.50
Fielding	- 1 -	- 1 -	- 1 -	- / 0.050	- 1 -	- / 0.050	- / 0.050	- / 0.050	- / 0.050	- / 0.050	- / -	- / 0.25
Subtotal: Recurring	- / -	- / -	- / -	- /4.959	- / -	- /4.959	- /2.961	- /2.959	- /1.392	- /6.885	- / -	- /19.15
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 / 19.15
Modification Item 5 of 6: Mounted Machine Gun Optic (MMO)/SAFC - CS												
B Kits												
Recurring												
Mounted Machine Gun Optic (MMO)	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	515 / 0.830	722 / 1.532	750 / 1.636	3,316 / 7.430	- 1 -	5,303 / 11.42
Engineering Support	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- 1 -	- /2.00
Integrated Logistical Support	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- 1 -	- /0.40
First Destination Transportation	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.020	- /0.020	- /0.020	- /0.020	- 1 -	- / 0.08
Testing	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.200	- 1 -	- 1 -	- 1 -	- 1 -	- /0.20
Testing (First Article)	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.100	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.10
Engineering Study	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.300	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.30
Fielding	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.050	- / 0.050	- / 0.050	- / 0.050	- / -	- / 0.20
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- /2.100	- /2.202	- /2.306	- /8.100	- / -	- /14.70
Subtotal: Mounted Machine Gun Optic (MMO)/SAFC - CS	- / -	- / -	- / -	- / -	- / -	- / -	515 / 2.100	722 / 2.202	750 / 2.306	3,316 / 8.100	- / -	5,303 / 14.70
Modification Item 6 of 6: MK93 Improvement Kits												
B Kits												
Recurring												
MK93 Improvement Kits	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	835 / 1.215	- 1 -	- 1 -	835 / 1.21
Engineering Support	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.350	- 1 -	- 1 -	- / 0.350
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1.565	- / -	- / -	- /1.56
Subtotal: MK93 Improvement Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	835 / 1.565	- / -	- / -	835 / 1.56
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 / 72.28
nstallation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

LI GB3000 - MK-19 Grenade Machine Gun MODS Army

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Exhibit P-3a, Individual Modificat	ion: PB 2017 Arm	ıy							Date: Feb	ruary 2016		
Appropriation / Budget Activity / 2033A / 02 / 20	Budget Sub Acti	vity:		tem Numb MK-19 Gre		hine Gun N	MODS		Modification Number / Title: GB3000 / Tripods			
Models of Systems Affected: MK- Machine Gun & M2 50 Cal Machine		Modif	cation Typ	e: Increas	e Performa	ance	Re	elated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)					
Total												
Total Cost (Procurement + Support + Installation	on) 36.854	-	_	4.959	_	4.959	5.06	5.161	5.263	14.985	_	72.283

			UNCI	_ASSIFIED						
xhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016				
Appropriation / Bud 033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GB3000 / MK-19	mber / Title: Grenade Machine Gun M	1ODS	Modification Number / Title: GB3000 / Tripods				
Modification Item 1 of 6	: Tactical Engagement Sim	ulator (TES)				Į.				
lanufacturer Information	on									
lanufacturer Name: NA				Manufacturer Location: NA						
dministrative Leadtime	(in Months): 5			Production Leadtime (in M	fonths): 8					
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021			
ontract Dates										
elivery Dates										
stallation Information										

			UNC	LASSIFIED			
Exhibit P-3a, Indiv	idual Modification:	PB 2017 Army				Date: February 2016	3
	dget Activity / Budg		P-1 Line Item Nu GB3000 / MK-19	ımber / Title: Grenade Machine Gun N	MODS	Modification Numb GB3000 / Tripods	
Modification Item 2 of 6	6: Tripods		1			'	
Manufacturer Informati	ion						
Manufacturer Name: NA				Manufacturer Location: N	A		
Administrative Leadtime	(in Months): 22			Production Leadtime (in N	Months): 6		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information	1						
Method of Implementat	tion (Organic): Installed b	y Troops			Installation	Quantity: 0	

			UNCI	LASSIFIED			
xhibit P-3a, Indiv	vidual Modification: F	PB 2017 Army				Date: February 2016	1
Appropriation / Bu 033A / 02 / 20	udget Activity / Budg	et Sub Activity:	P-1 Line Item Nu GB3000 / MK-19	imber / Title: Grenade Machine Gun M	MODS	Modification Number GB3000 / Tripods	er / Title:
lodification Item 3 of	6: Mounts		ı				
lanufacturer Informat	tion						
lanufacturer Name: NA	4			Manufacturer Location: NA	A		
dministrative Leadtime	e (in Months): 5			Production Leadtime (in M	Nonths): 9		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
ontract Dates							
elivery Dates							
stallation Informatio	n						
ethod of Implementa	tion (Organic): Installed by	Troops			Installation	Quantity: 0	

Manufacturer Information Manufacturer Name: TBD Manufacturer Location: TBD Administrative Leadtime (in Months): 9 Production Leadtime (in Months): 10 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 FY 2020 FY 2020 FY 2020 FY 2020 Mar	Exhibit P-3a, Indiv	idual Modification: Pl	3 2017 Army				Date: February 2016	3
Manufacturer Information Manufacturer Name: TBD Manufacturer Location: TBD Production Leadtime (in Months): 10 FY 2018 FY 2019 FY 2020 FY 2020 FY 2020 FY 2020 Mar 2	Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	t Sub Activity:			10DS		er / Title:
Manufacturer Name: TBD dministrative Leadtime (in Months): 9 Production Leadtime (in Months): 10 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 FY 20 contract Dates Jun 2017 Mar 2018 Mar 2019 Mar 2020 Mar 20 elivery Dates Apr 2018 Jan 2019 Jan 2020 Jan 2021 Jan 2020 metallation Information	Modification Item 4 of	: MK19 GMG MOD 5 Kits		•			•	
Production Leadtime (in Months): 9 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 FY 2	Manufacturer Informat	on						
Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 FY 20 Contract Dates Jun 2017 Mar 2018 Mar 2019 Mar 2020 Mar 20 Delivery Dates Apr 2018 Jan 2019 Jan 2020 Jan 2021 Jan 20	Manufacturer Name: TB)			Manufacturer Location: TE	BD		
Jun 2017 Mar 2018 Mar 2019 Mar 2020 Mar 2020	Administrative Leadtime	(in Months): 9			Production Leadtime (in M	fonths): 10		
Apr 2018 Jan 2019 Jan 2020 Jan 2021 Jan 20 Installation Information	Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
nstallation Information	Contract Dates			Jun 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
	Delivery Dates			Apr 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022
			Troops			Installation	Quantity: 0	
	Method of Implementat	ion (Organic): Installed by	Troops			Installation	Quantity: 0	

xhibit P-3a, Indivi	dual Modification: F	PB 2017 Army				Date: February 2016	3		
appropriation / Bu 033A / 02 / 20	dget Activity / Budg	et Sub Activity:	P-1 Line Item Nu GB3000 / MK-19	i mber / Title: Grenade Machine Gun M	IODS	Modification Numb GB3000 / Tripods	er / Title:		
lodification Item 5 of 6	: Mounted Machine Gun C	Optic (MMO)/SAFC - CS	•			•			
lanufacturer Information	on								
lanufacturer Name: TBD)			Manufacturer Location: TB	D				
dministrative Leadtime	(in Months): 6			Production Leadtime (in Months): 10					
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
ontract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021		
elivery Dates				Jan 2019	Jan 2020	Jan 2021	Jan 2022		
nstallation Information									
ethod of Implementati	on (Organic): Installed by	y Troops			Installation (Quantity: 0			
lethod of Implementati	on (Organic): Installed by	y Troops			Installation (Quantity: 0			
lethod of Implementati	on (Organic): Installed by	y Troops			Installation (Quantity: 0			
lethod of Implementati	on (Organic): Installed by	y Troops			Installation (Quantity: 0			
ethod of Implementati	on (Organic): Installed by	y Troops			Installation	Quantity: 0			
lethod of Implementati	on (Organic): Installed by	y Troops			Installation (Quantity: 0			
lethod of Implementati	on (Organic): Installed by	y Troops			Installation	Quantity: 0			
lethod of Implementati	on (Organic): Installed by	y Troops			Installation	Quantity: 0			
lethod of Implementati	on (Organic): Installed by	y Troops			Installation	Quantity: 0			
lethod of Implementati	on (Organic): Installed by	y Troops			Installation	Quantity: 0			

xhibit P-3a, Indivi	dual Modification: Pl	B 2017 Army				Date: February 2016	;		
appropriation / Bu 033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GB3000 / MK-19 0	mber / Title: Grenade Machine Gun M	ODS	Modification Number GB3000 / Tripods	er / Title:		
lodification Item 6 of 6	: MK93 Improvement Kits								
lanufacturer Information	on								
lanufacturer Name: U.S	*			Manufacturer Location: Pic					
dministrative Leadtime				Production Leadtime (in Months): 10					
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
ontract Dates						Mar 2020			
elivery Dates						Jan 2021			
	on (Organic): Installed by	Troops			Installation C	uantity: 0			
estallation Information		Troops			Installation G	uantity: 0			
		Troops			Installation G	uantity: 0			
		Troops			Installation G	tuantity: 0			
		Troops			Installation G	tuantity: 0			
		Troops			Installation C	tuantity: 0			
		Troops			Installation C	tuantity: 0			
		Troops			Installation C	quantity: 0			
		Troops			Installation C	quantity: 0			

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

Appropriation / Budget Activity / Budget Sub Activity:

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

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GZ1700 / M777 Mods

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

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

	1.00111		-(-)									
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)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

actoriou during actorop	mona									
Sacanda	m. Dietribution	FY 2015	FY 2016	FY 2017	FY 2017 OCO	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Seconda	ry Distribution	F1 2015	F1 2010	Base	000	Total	F1 2010	F1 2019	F 1 2020	F1 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	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GZ1700 / M777 Mods

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

GZ 1700 7 WI777 WIOU

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-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	- 1 -	- / 11.913
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit			ID	O	0 " (7 . 10 .	0 " (= 1.10)			0 " (= , 10 ,
Туре	Title*	Subexhibits	CD	Quantity / Total Cost (Each) / (\$ M)					
	Title* GZ1700 / Light Weight 155MM Towed Howitzer (Increase Performance)	Subexhibits						•	

^{*}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.

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 LBCTs with significantly improved indirect precision fire lethality and enable mitigation of the long range indirect precision fire 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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Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2033A / 02 / 20	GZ1700 / M777 Mods	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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	56.660	18.166	10.070	11.913	-	11.913	3.553	3.973	3.201	13.290	-	120.826
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	are documente	ed elsewhere.)			·	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Seconda	ary 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, Indivi	Exhibit P-3a, Individual Modification: PB 2017 Army Date: February 2016											
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budget S	ub Activity:		Item Number M777 Mods	/ Title:		Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer					
Seconda	ry 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		

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Exhibit P-3a, Individual Modification: F	PB 2017 Arn	าy							Date: Feb	ruary 2016	3	
Appropriation / Budget Activity / Budg 2033A / 02 / 20	et Sub Acti	vity:		tem Numb M777 Mod						ion Numb e Light Weig		Towed
Models of Systems Affected: M777A2		Modifi	cation Typ	e: Increas	e Performa	ance	Re	elated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M,								
Procurement					J				,			
Modification Item 1 of 6: Hardware Obsolescence												
A Kits												
Non-Recurring												-
DFCS Components	488 / 16.213	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	488 / 16.213
Inertial Navigation Unit	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	120 / 5.997	- 1 -	120 / 5.997
Engineering Change Proposal	0 / 0.678	- 1 -	- 1 -	- /1.836	- 1 -	- /1.836	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /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	- / -	- / -	- / -	120 / 5.997	- / -	608 / 24.724
Modification Item 2 of 6: Modernization in service				1	1			1	'	1		J
A Kits												-
Non-Recurring												
Enhanced Power Pack	0 /7.873	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	259 / 2.776	- 1 -	259 / 10.649
Digital Direct Fire Sight	- 1 -	- /6.670	- /1.100	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 17.770
Electronic Thermal Warning Integration	- 1 -	518 / 3.140	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	518 / 3.140
Engineering Change Proposal	0 / 0.777	- 1 -	- /1.726	- /2.481	- 1 -	- /2.481	- 1 -	- / 0.994	- /1.152	- /1.886	- 1 -	- /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	- 1 -	- 1 -	- /2.314	- 1 -	- /2.314	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /3.582
Electronic Communication Components	440 / 7.987	- 1 -	50 / 1.300	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	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												J
A Kits												
Recurring												
Interim Contractor Support	0 / 9.014	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 9.014
Systems Engineering	0 / 2.656	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /2.656
Subtotal: Recurring	- /11.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /11.670

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Exhibit P-3a, Individual Modification: F	PB 2017 Arm	าy							Date: Feb	ruary 2016	1	
Appropriation / Budget Activity / Budg 2033A / 02 / 20	vity:		tem Numb M777 Mod					Modification Number / Title: GZ1700 / Light Weight 155MM Tow Howitzer			Towed	
Models of Systems Affected: M777A2		Modif	ication Ty _l	oe: Increas	e Performa	ance	Re	lated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M,							
Subtotal: Performance Based Life Cycle	0 /11.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /11.670
Modification Item 5 of 6: Retrofit and Composite Fielding Activities												
A Kits												
Recurring												

Subtotal: Recurring	- /8.352	- /6.358	- /3.454	- /3.522	- / -	- /3.522	- /3.553	- /1.459	- /1.549	- /2.349	- / -	- /30.596
Subtotal: Retrofit and Composite Fielding Activities	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 -	- /1.760	- 1 -	- /1.520	- / 0.500	- / 0.282	- 1 -	- / 10.392
Subtotal: Recurring	- /1.842	- /1.998	- /2.490	- /1.760	- / -	- /1.760	- / -	- /1.520	- /0.500	- /0.282	- / -	- /10.392
Subtotal: Training Aides, Devices, Simulators	0 /1.842	- /1.998	- /2.490	- /1.760	- / -	- /1.760	- / -	- /1.520	- /0.500	- /0.282	- / -	- /10.392
Subtotal: Procurement, All Modification Items	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

- 1 -

- / -

- /3.522

- / -

- /3.553

- / -

- /1.459

- / -

- *l* 1.549

- / -

- /3.522

- / -

Subtotal: Training Aides, Devices, Simulators	0 /1.842	- /1.998	- /2.490	- /1.760	- / -	- /1.760	- / -	- /1.520	- /0.500	- /0.282	- / -	- /10.392
Subtotal: Procurement, All Modification Items	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												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
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

0 / 5.909

0 / 2.443

- / 6.358

- / -

- /3.454

- / -

Retrofit and Composite Fielding Activiti

Engineering Change Orders

- 1 -

- 1 -

- / 28.153

- 12.443

- /2.349

- 1 -

xhibit P-3a, Indivi	dual Modification: F	B 2017 Army				Date: February 2016	6	
Appropriation / Bud 033A / 02 / 20	dget Activity / Budg	et Sub Activity:	P-1 Line Item Nu GZ1700 / M777 M			Modification Numb GZ1700 / Light Weig Howitzer		
odification Item 1 of 6	: Hardware Obsolescence					1		
lanufacturer Informatio	on							
lanufacturer Name: Vari	ous			Manufacturer Location: Va	arious			
dministrative Leadtime (ín Months): 1			Production Leadtime (in M	fonths): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020 FY 2021		
ontract Dates			Oct 2016				Mar 2021	
elivery Dates			Nov 2016				Mar 2022	
nstallation Information								
lethod of Implementati	on (Organic): Digital Fire	Control Component Har	dware procurement and En	gineering Change Proposals	Installation	Quantity: 0		

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xhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	}			
ppropriation / Bud 033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GZ1700 / M777 M			Modification Number / Title: GZ1700 / Light Weight 155MM Towel Howitzer				
odification Item 2 of 6	: Modernization in service					1				
anufacturer Informatio	on									
anufacturer Name: Vari	ous			Manufacturer Location: Various						
dministrative Leadtime (′in Months): 1			Production Leadtime (in M	lonths): 1					
Dates	FY 2015	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021				
ontract Dates		Oct 2015	Oct 2016		Oct 2018	Oct 2019	Feb 2021			
elivery Dates		Nov 2015	Nov 2016		Nov 2018	Nov 2019	Dec 2021			
ethod of Implementati	on (Organic): Digital Fire	Control Component Har	dware procurement and Er	ngineering Change Proposals	Installation Q	uantity: 0				
ethod of Implementati	on (Organic): Digital Fire	Control Component Har	dware procurement and Er	ngineering Change Proposals	Installation Q	uantity: 0				
ethod of Implementati	on (Organic): Digital Fire	Control Component Har	dware procurement and Er	ngineering Change Proposals	Installation Q	uantity: 0				
ethod of Implementati	on (Organic): Digital Fire	Control Component Har	dware procurement and Er	ngineering Change Proposals	Installation Q	uantity: 0				
ethod of Implementati	on (Organic): Digital Fire	Control Component Har	dware procurement and Er	ngineering Change Proposals	Installation Q	uantity: 0				

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Exhibit P-3a, Individ	dual Modification: F	PB 2017 Army				Date: February 2016	3		
Appropriation / Buo 2033A / 02 / 20	dget Activity / Budg	et Sub Activity:	P-1 Line Item Nu GZ1700 / M777 M				Modification Number / Title: GZ1700 / Light Weight 155MM Towed Howitzer		
Modification Item 3 of 6:	Interoperability - Commu	nication	•						
Manufacturer Information	on								
Manufacturer Name: Vario	ous			Manufacturer Location: Va	arious				
Administrative Leadtime (in Months): 1			Production Leadtime (in M	fonths): 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	on (Organic): Software E	ngineering, Engineering	Change Proposals and pro	ocurement of hardware	Installation	Quantity: 0			

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Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	<u> </u>		
Appropriation / Buo 2033A / 02 / 20	dget Activity / Budg	et Sub Activity:	P-1 Line Item Nu GZ1700 / M777 M			Modification Number GZ1700 / Light Weig Howitzer			
Modification Item 4 of 6.	Performance Based Life	Cycle	•			•			
Manufacturer Information	on								
Manufacturer Name: N/A				Manufacturer Location: N/	A				
Administrative Leadtime (in Months):			Production Leadtime (in M	lonths):				
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
Contract Dates									
Delivery Dates									
Installation Information									
Method of Implementati	on (Organic): MIPR to AR	RDEC and Exercising Co	ontract Options		Installation (Quantity: 0			

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Exhibit P-3a, Indivi	dual Modification: PB	2017 Army				Date: February 2016	3
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budget	Sub Activity:	P-1 Line Item Nur GZ1700 / M777 M			Modification Numb GZ1700 / Light Weig Howitzer	
Manufacturer Informati	on						
/Janufacturer Name: N/A				Manufacturer Location: N/	Ά		
Administrative Leadtime	(in Months): 4			Production Leadtime (in M	fonths): 2		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
	Jan 2015		Jan 2017		Jan 2019		Jan 2021
elivery Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
actallation Information							
		EC and Contract Option	ons		Installation C	uantity: 0	
		EC and Contract Option	ons		Installation C	uantity: 0	

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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 Howitzer Modification Item 6 of 6: Training Aides, Devices, Simulators Manufacturer Information Manufacturer Name: N/A Administrative Leadtime (in Months): 10 Production Leadtime (in Months): 1 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 Jun 2019 Jun 2020	Exhibit P-3a, Indivi	dual Modification: PE	3 2017 Army				Date: February 2016	3
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 Contract Dates Jun 2015 Jun 2016 Jun 2017 Jun 2018 Jun 2019 Jun 2020 Jun 2019 Delivery Dates Jul 2015 Jul 2016 Jul 2017 Jul 2018 Jul 2019 Jul 2020 Jul 2019	Appropriation / Bud						GZ1700 / Light Weig	
Manufacturer Name: 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 Contract Dates Jun 2015 Jun 2016 Jun 2017 Jun 2018 Jun 2019 Jun 2020 Jun Delivery Dates Jul 2015 Jul 2016 Jul 2017 Jul 2018 Jul 2019 Jul 2020 Jun Destallation Information	Modification Item 6 of 6	: Training Aides, Devices, S	imulators	•			•	
Administrative Leadtime (in Months): 10 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 FY 2017	Manufacturer Information	on						
Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 FY 2010 Contract Dates Jun 2015 Jun 2016 Jun 2017 Jun 2018 Jun 2019 Jun 2020 Jur 2019 Delivery Dates Jul 2015 Jul 2016 Jul 2017 Jul 2018 Jul 2019 Jul 2020 Jul 2019	//Anufacturer Name: N/A				Manufacturer Location: N/A	A		
Contract Dates Jun 2015 Jun 2016 Jun 2017 Jun 2018 Jun 2019 Jun 2020 Jun 2019 Pelivery Dates Jul 2015 Jul 2016 Jul 2017 Jul 2018 Jul 2019 Jul 2020 Jul 2019 Pelivery Dates Pelivery Dates Jul 2019 Jul 2020 Jul 2020 Pelivery Dates Pelivery Dates Jul 2019 Jul 2020 Jul 2020 Pelivery Dates Pelivery Dates Jun 2015 Jul 2016 Jul 2017 Jul 2018 Jul 2019 Jul 2020 Jul 2020 Pelivery Dates Pelivery Dates Jul 2015 Jul 2016 Jul 2017 Jul 2018 Jul 2019 Jul 2020 Jul 2020 Jul 2020 Pelivery Dates Pelivery Dates Jul 2020 Jul 2020 Jul 2020 Jul 2020 Pelivery Dates Jul 2020 Pelivery Dates Jul 2020 Jul 2020 Pelivery Dates Pelivery Dates Jul 2020 Pelivery Dates Pel	dministrative Leadtime (in Months): 10			Production Leadtime (in M	lonths): 1		
Delivery Dates Jul 2015 Jul 2016 Jul 2017 Jul 2018 Jul 2019 Jul 2020 Jul anstallation Information	Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
nstallation Information	Contract Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021
	elivery Dates	Jul 2015	Jul 2016	Jul 2017	Jul 2018	Jul 2019	Jul 2020	Jul 2021
ethod of Implementation (Organic): MIPR to ARDEC, Software Engineering Installation Quantity: 0	stallation Information							
	ethod of Implementati	on (Organic): MIPR to ARI	DEC, Software Enginee	ring		Installation (Quantity: 0	
	ethod of Implementati	on (Organic): MIPR to ARI	DEC, Software Enginee	ring		Installation (Quantity: 0	
	ethod of Implementati	on (Organic): MIPR to ARI	DEC, Software Enginee	ring		Installation (Quantity: 0	
	lethod of Implementati	on (Organic): MIPR to ARI	DEC, Software Enginee	ring		Installation (Quantity: 0	

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 P-1 Line #23

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

Appropriation / Budget Activity / Budget Sub Activity:

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

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GB3007 / M4 Carbine Mods

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

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

Line item MDAI /MAIO Gode: 14//	item wib	AI /III/AIO OOG	10(3): 14// (
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)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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.

Seconda	ary 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

ivity: P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GB3007 / M4 Carbine Mods

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
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)
M4 PIP (Increase Performance)			- / 578.763	- /7.735	- /27.566	- /29.752	- / -	- / 29.752
ss/Weapon System Cost			- / 578.763	- /7.735	- / 27.566	- / 29.752	- 1 -	- / 29.752
Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
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)
M4 PIP (Increase Performance)			- /31.104	- / 32.551	- / 18.524	- / 37.358	- / -	- / 763.353
ss/Weapon System Cost			- / 31.104	- / 32.551	- / 18.524	- / 37.358	- 1 -	- / 763.353
M	M4 PIP (Increase Performance) s/Weapon System Cost Exhibits Schedule Title* M4 PIP (Increase Performance) s/Weapon System Cost	M4 PIP (Increase Performance) s/Weapon System Cost Exhibits Schedule Title* Subexhibits M4 PIP (Increase Performance) s/Weapon System Cost	Title* Subexhibits CD M4 PIP (Increase Performance) S/Weapon System Cost Exhibits Schedule Title* Subexhibits CD M4 PIP (Increase Performance) S/Weapon System Cost	Title* Subexhibits CD (Each) (\$ M)	Title* Subexhibits CD (Each) / (\$ M) (Each) / (\$ M) M PIP (Increase Performance) - / 578.763 - / 7.735 StWeapon System Cost - / 578.763 - / 7.735 Exhibits Schedule FY 2018 FY 2019 Title* Subexhibits CD Quantity / Total Cost (Each) / (\$ M) M PIP (Increase Performance) - / 31.104 - / 32.551 StWeapon System Cost - / 31.104 - / 32.551 Comparison of the control of	Title* Subexhibits CD (Each) I (\$ M) (Each) I (\$ M) (Each) I (\$ M) M4 PIP (Increase Performance) - / 578.763 - / 7.735 - / 27.566 s/Weapon System Cost - / 578.763 - / 7.735 - / 27.566 Exhibits Schedule FY 2018 FY 2019 FY 2020 Title* Subexhibits CD Quantity / Total Cost (Each) I (\$ M) Quantity / Total Cost (Each) I (\$ M) Quantity / Total Cost (Each) I (\$ M) M4 PIP (Increase Performance) - / 31.104 - / 32.551 - / 18.524 s/Weapon System Cost - / 31.104 - / 32.551 - / 18.524	Title* Subexhibits CD (Each) I (\$ M) Quantity / Total Cost (Each) I (\$ M) (Each) I (\$ M) (Each) I (\$ M) Quantity / Total Cost (Each) I (\$ M) (Each) I (\$ M) <td>Title* Subexhibits CD (Each) I (\$ M) <t< td=""></t<></td>	Title* Subexhibits CD (Each) I (\$ M) (Each) I (\$ M) <t< td=""></t<>

^{*}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.

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, 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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LI GB3007 - M4 Carbine Mods Army

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

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2033A / 02 / 20	GB3007 / M4 Carbine Mods	GB3007 / M4 PIP

2033A / 02 / 20			GE	330077 M4 C	Carbine Mod	ds			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	Total
Resource Summary	Tears	F1 2015	F1 2016	Dase	000	iolai	F1 2010	F1 2019	F1 2020	F1 2021	Complete	TOLAT
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	578.763	7.735	27.566	6 29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	578.763	7.735	27.566	6 29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	578.763	7.735	27.566	6 29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.353
(The following	Resource Sum	mary rows are fo	r informational	purposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	1			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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.

Seconda	ry 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:	Quantity	-	=	=	=	-	-	-	-	=
Secondary Distribution	Total Obligation Authority	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358

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P-1 Line #24

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016
	Modification Number / Title: GB3007 / M4 PIP

Developmen	t 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 recompete & (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

Exhibit P-3a, Individual Modification: PB 2017 Army Date: February 2016 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: **Modification Number / Title:** GB3007 / M4 Carbine Mods GB3007 / M4 PIP 2033A / 02 / 20 Models of Systems Affected: M4/M4A1 CARBINE **Modification Type:** Increase Performance Related RDT&E PEs: FY 2017 FY 2017 FY 2017 То FY 2015 FY 2016 oco FY 2019 FY 2021 **Prior Years** Base Total **FY 2018** FY 2020 Complete Total Qtv (Each) I **Financial Plan** Total Cost (\$ M) | Total Cost (\$ Procurement Modification Item 1 of 3: Combat Optics/Small Arms Fire Control Squad B Kits Recurring Combat Optics 459,113 I - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -1,838 / 13.655 - 1 -460,951 139.500 153.155 - 1 -- 1 -- 1 -- 1 -- 1 -Program Management 0 / 11.550 - 1 -- 1 -- / 0.260 - / 0.800 - 1 -- / 12.610 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- / 0.205 - /1.415 - 1 -- /1.620 **Engineering Support** 0 / 0.400 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- / 0.500 - / 0.900 Test - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -/ 0.150 - 1 -- /3.150 0 / 2.990 - 1 -- / 0.010 Integrated Logistical Support Total Package Fielding 0 /2.100 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- / 0.015 10.400 - 1 -- /2.515 New Equipment Training 0 / 0.100 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- / 0.010 10.500 - / 0.610 Subtotal: Recurring - /156.640 - / -- / -- / -- / -- / -- / -- / -- /0.500 - /17.420 - / -- /174.560 459.113/ - / -- / -- / -- / -- / -- / -- / -- /0.500 1.838 / 17.420 - / -460.951 Subtotal: Combat Optics/Small Arms Fire Control 156.640 174 560 Squad Modification Item 2 of 3: Close Quarters Battle Kit B Kits Recurring Close Quarters Battle Kit 149.182 I - 1 -- 1 -- 1 -- / -- / -- / -- 1 -- 1 -149.182 - 1 -- 1 -302.600 302.600 Improved Weapons Cleaning Kit (Indv) 143.159 / - 1 -93.098 / 8.148 62.056 / 5.703 - 1 -62.056 / 5.703 50,906 / 4.912 25,710 / 2.605 24.384 / 2.596 88,415 / 9.876 - 1 -487.728 11.364 45.204 Improved Weapons Cleaning Kit (Team) - 1 -- 1 -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 / 11.280 119.760 / 1.000 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -119.760 / 1.000 Improved Magazines - 1 -**Enhanced Performance Magazines** 8.333 / 0.100 2.040 / 0.020 - / -2.040 / 0.020 166.666 / 2.000 5.069.016 / 8.333 / 0.100 | 508.333 / 6.100 5.762.721 - 1 -- 1 -6.083 14.403 Program Management 0 / 0.100 - / 0.175 - / 0.180 - / 0.185 - 1 -- / 0.185 - / 0.190 - /0.200 - / 0.205 - / 0.210 - 1 -- /1.445 **Engineering Support** 0 / 12.900 - / 0.485 - / 0.310 - / 0.315 - 1 -- / 0.315 - / 0.318 - / 0.305 - / 0.310 - / 0.315 - 1 -- / 15.258 - 1 -Integrated Logistic Support 0 /4.720 - 1 -- / 0.020 - / 0.025 - / 0.025 - / 0.025 - / 0.020 - / 0.025 10.025 - 1 -- /4.860 0 / 2.844 - 1 -- /0.100 - / 0.103 - 1 -- / 0.103 - / 0.105 - /0.110 - / 0.115 - / 0.120 - 1 -- /3.497 Total Package Fielding - / -- /335.528 - /0.660 - /11.574 - /8.252 - / -- /8.252 - /9.188 - /10.191 - /4.216 - /19.938 - /399.547 Subtotal: Recurring - /0.660 81.887 / 8.252 81.887 / 8.252 | 232.172 / 9.188 5.102.094 / 39.710 / 4.216 6.616.181 Subtotal: Close Quarters Battle Kit 412.101/ 128.121/ - / -620.096 335.528 11.574 10.191 19.938 399.547 Modification Item 3 of 3: M4 Product Improvement Program (PIP) Phase I

LI GB3007 - M4 Carbine Mods Army

Exhibit P-3a, Individual Modification: PB 2017 ArmyDate: February 2016Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20P-1 Line Item Number / Title:
GB3007 / M4 Carbine ModsModification Number / Title:
GB3007 / M4 PIP

2033A / 02 / 20			GB3007 7	M4 Carbin	e Moas				GB3007 T	M4 PIP		
Models of Systems Affected: M4/M4A1	CARBINE	Modifi	cation Typ	e: Increas	e Performa	ance	Re	lated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ A										
B Kits												
Recurring												
Hardware M4 PIP Phase 1 (kit equivalent)	483,000 <i>I</i> 73.802	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	483,000 73.80
Hardware PIP Parts (bench stocks,others)	0 / 3.327	- / 0.735	- /2.815	- /3.440	- / -	- /3.440	- /3.691	- /3.323	- /1.540	- 1 -	- 1 -	- / 18.87
System Support MWO Team/TACOM	0 / 2.680	- / 0.878	- /1.424	- /1.463	- / -	- / 1.463	- / 1.465	- /1.475	- /1.542	- 1 -	- 1 -	- / 10.92
Program Management	0 / 0.460	- / 0.071	- / 0.315	- / 0.320	- 1 -	- / 0.320	- / 0.325	- / 0.330	- / 0.375	- 1 -	- 1 -	- /2.19
Engineering Support	0 / 1.386	- / 0.250	- / 0.410	- / 0.420	- 1 -	- / 0.420	- / 0.425	- / 0.430	- / 0.500	- 1 -	- 1 -	- /3.82
Integrated Logistics Support	0 / 0.522	- / 0.040	- / 0.040	- / 0.045	- / -	- / 0.045	- / 0.045	- / 0.048	- / 0.055	- 1 -	- 1 -	- / 0.79
Transportation Costs	0 / 0.140	- /0.010	- / 0.450	- / 0.500	- 1 -	- / 0.500	- / 0.550	- / 0.515	- / 0.520	- 1 -	- 1 -	- /2.68
Subtotal: Recurring	- /82.317	- /1.984	- /5.454	- /6.188	- / -	- /6.188	- /6.501	- /6.121	- /4.532	- / -	- / -	- /113.09
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	- / -	- / -	483,000 113.09
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	- / -	7,560,132 687.20
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	- 1 -	96,000 / 15.312	96,000 / 15.415	96,000 / 16.239	45,537 / 9.276	- 1 -	- 1 -	483,018 76.14
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 76.14
Total												
Total Cost (Procurement + Support + Installation)	578.763	7.735	27.566	29.752	-	29.752	31.104	32.551	18.524	37.358	-	763.35

LI GB3007 - M4 Carbine Mods Army

			UNCL	ASSIFIED			
Exhibit P-3a, Individ	dual Modification:	PB 2017 Army				Date: February 2016	;
Appropriation / Bud 2033A / 02 / 20	lget Activity / Budg	get Sub Activity:	P-1 Line Item Nu GB3007 / M4 Carl			Modification Number / Title: GB3007 / M4 PIP	
Modification Item 1 of 3:	Combat Optics/Small Ar	ms Fire Control Squad					
Manufacturer Informatio	n						
Manufacturer Name: TBD				Manufacturer Location: TB	D		
Administrative Leadtime (i	n Months): 5			Production Leadtime (in Mo	onths): 2		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							Feb 2021
Delivery Dates							May 2021
nstallation Information Method of Implementation					Installation (
		-					

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Exhibit P-3a, Indivi	dual Modification: Pl		Date: February 2016				
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GB3007 / M4 Car		er / Title:		
Modification Item 2 of 3	: Close Quarters Battle Kit		·			·	
Manufacturer Informati	on						
Manufacturer Name: DLA	A Tailoring Logistic Support(various vendors)		Manufacturer Location: Ph	niladelphia, PA		
Administrative Leadtime	(in Months): 4			Production Leadtime (in M	fonths): 4		
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

Method of Implementation (Organic): Installed by Soldiers

Installation Quantity: 0

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Exhibit P-3a, Indi	vidual Modification: P		Date: February 2016								
Appropriation / B 2033A / 02 / 20	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GB3007 / M4 Car								
Modification Item 3 o	f 3: M4 Product Improvement	Program (PIP) Phase I	•			'					
Manufacturer Informa	tion										
Manufacturer Name: V	arious Vendors			Manufacturer Location: Va	arious Locations						
Administrative Leadtim	e (in Months): 1			Production Leadtime (in N	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

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	23,154 / 4.278	46,953 / 5.091	79,374 / 10.538	96,000 / 15.312	- 1 -	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	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	23.154 / 4.278	46.953 / 5.091	79.374 / 10.538	96.000 / 15.312	- 1 -	96.000 / 15.312	96.000 / 15.415	96.000 / 16.239	45.537 / 9.276	- / -	- 1 -	483.018 / 76.149

Installation Schedule

			FY	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	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	тс	Tot
In	23,15	5411,7	3811,73	3811,7	3811,73	3919,84	319,84	319,84	419,84	424,00	024,000	024,00	024,00	024,00	024,00	024,00	024,00	024,000	024,00	024,00	024,00	011,38	511,38	411,38	411,384	4 -	-	-	-	-	483,018
Out	23,15	5411,7	3811,73	3811,7	3811,73	3919,84	319,84	319,84	419,84	424,00	024,000	024,00	024,00	024,00	024,00	024,00	024,00	024,000	024,00	024,00	024,00	011,38	511,38	411,38	411,384	4 -	-	-	-	-	483,018

LI GB3007 - M4 Carbine Mods
Army
P

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GB4000 / M2 50 Cal Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Date: February 2016

Line Herry MDAD/MAIO Octor NI/A

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
(The following	Resource Sumr	mary rows are fo	r informational p	ourposes only. Th	he corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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.

Seconda	ary 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	-	-	-	-	-	2,750	-	-	-
Secondary Distribution	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:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GB4000 / M2 50 Cal Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

ID Code (A=Service Ready, B=Not Service Ready): B
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-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	- 1 -	- / 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)					
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	- 1 -	- / 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.

Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2033A / 02 / 20	GB4000 / M2 50 Cal Machine Gun MODS	GB4000 / M2 Mods

2033A / 02 / 20			GB	4000 / M2 5	0 Cal Mach	nine Gun MC	DDS		GB4000) / M2 Mods	3	
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)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	231.897	25.095	44.004	48.582	-	48.582	37.013	42.936	11.703	10.916	-	452.146
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)			<u> </u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	-	_	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.

				FY 2017	FY 2017	FY 2017				
Secondar	y Distribution	FY 2015	FY 2016	Base	осо	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											
Title	Description										
Production Verification Test	XM205 Tripod										
Operational Test	XM205 Tripod										
Type Classification - Standard	M205 Tripod										
	Title Production Verification Test Operational Test										

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

Development Status/Major Development Milestones										
Date	Title		Description							
Oct 2013	First Unit Equipped	1	M205 Tripod							

Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20

Date: February 2016

Modification Number / Title:
GB4000 / M2 50 Cal Machine Gun MODS

GB4000 / M2 Mods

Models of Systems Affected: Machine Gun, CAL .50 | Modification Type: Increase performance | Related RDT&E PEs:

M2 and MK-19 Grenade Machine Gun

LI GB4000 - M2 50 Cal Machine Gun MODS

Army

	Prior Years	FY 2015 Qty (Each) I Total Cost (\$ M)	FY 2016 Qty (Each) I Total Cost (\$ M)	FY 2017 Base Qty (Each) I Total Cost (\$ M)	FY 2017 OCO Qty (Each) I Total Cost (\$ M)	FY 2017 Total Qty (Each) I Total Cost (\$ M)	FY 2018 Oty (Each) I Total Cost (\$ M)	FY 2019 Oty (Each) I Total Cost (\$ M)	FY 2020 Qty (Each) I Total Cost (\$ M)	FY 2021 Qty (Each) I Total Cost (\$ M)	To Complete Qty (Each) I Total Cost (\$ M)	Total Qty (Each) I Total Cost (\$ M,
Financial Plan	Qty (Each) I Total Cost (\$ M)											
rocurement												
Modification Item 1 of 4: M2A1 Quick Change Barrel Kit												
B Kits												
Recurring												
Hardware Quick Change Barrel Kits	31,440 <i>I</i> 172.990	356 / 1.390	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	31,796 174.38
Engineering Support	0 / 6.534	- /1.250	- /1.250	- /1.150	- 1 -	- / 1.150	- / 1.150	- /1.250	- /1.270	- /1.270	- 1 -	- / 15.12
Program Management Support	0 / 1.626	- 1 -	- /0.770	- / 0.570	- 1 -	- / 0.570	- / 0.483	- / 0.529	- / 0.333	- / 0.333	- 1 -	- /4.64
Integrated Logistics Support	0 / 0.950	- / 0.326	- / 0.330	- / 0.330	- 1 -	- / 0.330	- / 0.330	- / 0.330	- / 0.330	- / 0.330	- / -	- /3.25
Fielding	0 / 0.800	- / 0.400	- / 0.300	- /0.300	- 1 -	- / 0.300	- / 0.300	- / 0.400	- / 0.600	- / 0.600	- / -	- /3.70
New Equipment Training	0 / 0.770	- / 0.350	- / 0.300	- / 0.300	- 1 -	- / 0.300	- / 0.400	- / 0.500	- /0.700	- /0.700	- 1 -	- /4.0
First Destination Transportation	0 / 1.441	- /0.200	- / 0.100	- /0.100	- 1 -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- 12.2
Engineering Studies	0 / 0.066	- /1.369	- /3.689	- /1.378	- 1 -	- /1.378	- /1.270	- /1.327	- 1 -	- 1 -	- / -	- /9.0
Testing	0 / 0.800	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- /0.8
Anniston Packaging	0 / 0.700	- /0.770	- / 1.669	- /1.226	- 1 -	- /1.226	- /1.453	- / 0.393	- 1 -	- 1 -	- 1 -	- 16.2
Subtotal: Recurring	- /186.677	- /6.055	- /8.408	- /5.354	- / -	- /5.354	- /5.486	- /4.829	- /3.333	- /3.333	- / -	- / 223.4
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	- / -	31,79 223.4
Modification Item 2 of 4: Tripods												
B Kits												
Recurring												
M3 Tripods	11,109 / 8.500	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	11,109 / 8.50
M205 Tripod	11,088 / 27.518	6,026 / 11.055	10,453 / 18.178	10,500 / 18.637	- 1 -	10,500 / 18.637	3,584 / 6.430	2,548 / 6.726	- 1 -	- 1 -	- 1 -	44,199 / 88.54
Engineering Support	0 / 1.637	- /3.654	- /4.567	- /3.700	- 1 -	- /3.700	- /2.800	- /2.750	- / 0.750	- / 0.800	- 1 -	- / 20.6
Program Management Support	0 / 0.766	- 1 -	- /3.028	- /3.262	- 1 -	- /3.262	- /1.828	- /1.599	- / 0.255	- / 0.267	- 1 -	- / 11.00
Integrated Logistics Support	0 / 0.350	- / 0.190	- / 0.250	- / 0.275	- 1 -	- / 0.275	- / 0.300	- / 0.250	- / 0.250	- / 0.225	- 1 -	- /2.09
New Equipment Training	0 / 0.407	- / 0.225	- / 0.260	- / 0.325	- 1 -	- / 0.325	- / 0.400	- / 0.350	- /0.200	- 1 -	- 1 -	- /2.10
Fielding	0 / 0.465	- /0.200	- / 0.100	- / 0.275	- 1 -	- / 0.275	- / 0.350	- / 0.350	- / 0.200	- 1 -	- 1 -	- /1.9
Engineering Study	0 / 0.175	- /0.600	- / 0.400	- / 0.693	- 1 -	- / 0.693	- / 0.675	- 1 -	- 1 -	- 1 -	- 1 -	- 12.5
M205 Tripod - Rock Island Arsenal (RIA)	- 1 -	- / 0.666	350 / 3.430	350 / 3.493	- 1 -	350 / 3.493	275 / 2.893	150 / 2.644	- 1 -	- 1 -	- 1 -	1,125 / 13.1
Engineering Change Proposal	- 1 -	- 1 -	- 1 -	- /1.750	- 1 -	- /1.750	- /1.750	- /1.250	- / 0.890	- /1.375	- 1 -	- 17.0
Testing (First Article)	0 / 1.780	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- / 0.750	- 1 -	- 1 -	- 1 -	- 1 -	- /2.5
First Destination Transportation	0 / 0.300	- / 0.100	- / 0.065	- /0.209	- 1 -	- / 0.209	- / 0.108	- / 0.073	- / -	- 1 -	- / -	- / 0.8

Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 02 / 20

Date: February 2016

P-1 Line Item Number / Title:

GB4000 / M2 50 Cal Machine Gun MODS

GB4000 / M2 Mods

Models of Systems Affected: Machine Gun, CAL .50
M2 and MK-19 Grenade Machine Gun
M2 and MK-19 Grenade Machine Gun
M3 and MK-19 Grenade Machine Gun

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Subtotal: Recurring	- /41.898	- /16.690	- /30.278	- /32.619	- / -	- /32.619	- /18.284	- /15.992	- /2.545	- /2.667	- / -	- /160.97
Subtotal: Tripods	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	- / -	56,433 160.97
Modification Item 3 of 4: MK93 Improvements												
B Kits												
Recurring												
MK93 Improvements	- 1 -	- 1 -	- 1 -	3,445 / 5.482	- 1 -	3,445 / 5.482	3,177 / 5.132	933 / 4.684	1,302 / 0.765	2,189 / 0.414	- 1 -	11,046 / 16.47
Engineering Support	0 / 0.200	- / 0.376	- / 0.911	- /1.000	- 1 -	- /1.000	- /1.099	- /2.650	- / 0.803	- / 0.945	- 1 -	- 17.98
Program Management Support	- 1 -	- / 0.074	- / 0.447	- / 0.977	- 1 -	- / 0.977	- / 0.855	- /2.636	- / 0.354	- / 0.247	- 1 -	- /5.59
Integrated Logistics Support	- 1 -	- 1 -	- 1 -	- / 0.100	- 1 -	- / 0.100	- / 0.125	- / 0.125	- / 0.150	- / 0.150	- 1 -	- / 0.6
Material Work Order (ANAD)	- 1 -	- 1 -	- / 0.650	- 1 -	- 1 -	- 1 -	- / 0.719	- / 0.635	- /1.010	- / 0.091	- 1 -	- /3.10
Material Work Order (TACOM)	- 1 -	- 1 -	- 1 -	- / 0.400	- 1 -	- / 0.400	- / 0.625	- / 0.625	- / 0.465	- / 0.625	- 1 -	- 12.74
Testing (First Article)	- 1 -	- 1 -	- 1 -	- / 0.350	- 1 -	- / 0.350	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- /0.3
Testing	0 / 0.500	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.5
Engineering Studies	0 / 0.600	- /1.050	- /2.460	- /1.450	- 1 -	- /1.450	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /5.56
Subtotal: Recurring	- /1.300	- /1.500	- /4.468	- /9.759	- / -	- /9.759	- /8.555	- /11.355	- /3.547	- /2.472	- / -	- /42.98
Subtotal: MK93 Improvements	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 / 42.95
Modification Item 4 of 4: Mounted Machine Gun Optic												
B Kits												
Recurring												
Mounted MG Optic	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1,420 / 2.983	876 / 7.542	1,625 / 1.653	2,540 / 1.325	- 1 -	6,461 / 13.50
Engineering Support	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.200	- /0.825	- /0.375	- / 0.325	- 1 -	- /1.72
Program Management Support	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.150	- /0.725	- / 0.050	- / 0.150	- 1 -	- /1.07
Integrated Logistics Support	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.080	- / 0.350	- / 0.100	- /0.200	- 1 -	- /0.73
Fielding	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.300	- / 0.550	- / 0.050	- / 0.294	- 1 -	- / 1.19
New Equipment Training	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.125	- / 0.375	- / 0.050	- / 0.150	- 1 -	- /0.70
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- /3.838	- /10.367	- /2.278	- /2.444	- / -	- /18.92
Subtotal: Mounted Machine Gun Optic	- / -	- / -	- / -	- / -	- / -	- / -	1,420 / 3.838	876 / 10.367	1,625 / 2.278	2,540 / 2.444	- / -	6,461 / 18.92
Subtotal: Procurement, All Modification Items	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	- / -	105,730 446.33
nstallation												
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	- 1 -	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	- 1 -	- 1 -	- 1 -	31,796 / 5.81
Subtotal: Installation	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 / 5.81

LI GB4000 - M2 50 Cal Machine Gun MODS Army

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Exhibit P-3a, Individual Modification	: PB 2017 Arn	าy							Date: Feb	ruary 2016	i	
Appropriation / Budget Activity / Bu 2033A / 02 / 20	lget Sub Acti	vity:		tem Numb M2 50 Cal		Gun MODS			Modificat GB4000 /	ion Numbo M2 Mods	er / Title:	
Models of Systems Affected: Machir M2 and MK-19 Grenade Machine Gun		Modifi	cation Typ	oe: Increas	e performa	ance	Re	lated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)											
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

Exhibit P-3a, Indi	vidual Modification: P	B 2017 Army				Date: February 2016	3
Appropriation / B 2033A / 02 / 20	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GB4000 / M2 50	imber / Title: Cal Machine Gun MODS	3	Modification Numb GB4000 / M2 Mods	er / Title:
Modification Item 1 of	4: M2A1 Quick Change Barr	el Kit	·			·	
Manufacturer Informa	tion						
Manufacturer Name: G	eneral Dynamics Ordnance T	actical Systems		Manufacturer Location: S	aco, ME		
Administrative Leadtime	e (in Months): 5			Production Leadtime (in I	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

	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
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	10,325 / 2.022	4,800 / 0.850	4,800 / 0.850	5,400 / 0.850	- 1 -	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	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	356 / 0.293	- 1 -	- 1 -	- 1 -	356 / 0.293
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	10,325 / 2.022	4,800 / 0.850	4,800 / 0.850	5,400 / 0.850	- 1 -	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	- 1 -	- 1 -	- 1 -	31,796 / 5.815

Installation Schedule

		_	FY 2	015		-	FY 2	2016		-	FY 2	017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	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	TC	Tot
In	12,52	51,200	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	11,32	51,200	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	1,350	1,071	-	-	-	-	-	-	-	-	-	-	-	-	32,796

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Appropriation / Budge	at Activity / Rudge					Date: February 2016	
00001100100	FI Activity / Budge	et Sub Activity:	P-1 Line Item Nu			Modification Number	er / Title:
2033A / 02 / 20			GB4000 / M2 50 (Cal Machine Gun MODS		GB4000 / M2 Mods	
Modification Item 2 of 4: Tri	pods						
Manufacturer Information							
Manufacturer Name: Capco,	Inc.			Manufacturer Location: Gi	and Junction, CO		
Administrative Leadtime (in N	Months): 6			Production Leadtime (in N	fonths): 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		
Delivery Dates	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019		
Installation Information							
Method of Implementation ((Organic): Installed by	Troops			Installation (Quantity: 0	

Exhibit P-3a, Indivi	dual Modification: Pl	3 2017 Army				Date: February 2016	6
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	t Sub Activity:	P-1 Line Item Nu GB4000 / M2 50 0	mber / Title: Cal Machine Gun MODS		Modification Number GB4000 / M2 Mods	er / Title:
Modification Item 3 of 4	: MK93 Improvements		·				
Manufacturer Information	on						
Manufacturer Name: TBD)			Manufacturer Location: TE	3D		
Administrative Leadtime	(in Months): 7			Production Leadtime (in N	Nonths): 8		
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 Implementati	on (Organic): Installed by	Troops			Installation	Quantity: 0	

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xhibit P-3a, Indivi	dual Modification: Pl	B 2017 Army				Date: February 2016	6
appropriation / Bud 033A / 02 / 20	lget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GB4000 / M2 50	imber / Title: Cal Machine Gun MODS		Modification Numb GB4000 / M2 Mods	er / Title:
lodification Item 4 of 4	Mounted Machine Gun Op	otic				•	
lanufacturer Information	on						
lanufacturer Name: TBD				Manufacturer Location: TE	BD		
dministrative Leadtime (in Months): 6			Production Leadtime (in M	lonths): 10		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
ontract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
elivery Dates				Jan 2019	Jan 2020	Jan 2021	Jan 2022
estallation Information	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation (Quantity: 0	
	on (Organic): Installed by	Troops			Installation	Quantity: 0	
	on (Organic): Installed by	Troops			Installation	Quantity: 0	

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GZ1290 / M249 SAW Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Harry MDAD/MAIO Or der NI/A

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
(The following	Resource Sumr	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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

ormanoo oporational pont	ormanoo.									
Secondary	y 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	-

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GZ1290 / M249 SAW Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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-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 -	- / 1.179
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	ID CD	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	- 1 -	- 1 -	- / 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.

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

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
-	-	-	-	-	-	-	-	-	-	-	-
151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
=	-	-	-	-	-	-	-	-	-	-	-
151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
-	-	-	-	-	-	-	-	-	-	-	-
151.766	5.546	1.190	1.179	-	1.179	1.179	1.179	1.181	-	-	163.220
Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	are documente	ed elsewhere.)			<u>'</u>	
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
	Years - 151.766 - 151.766 - 151.766	Years FY 2015 151.766 5.546 151.766 5.546 - 151.766 5.546	Years FY 2015 FY 2016 - - - 151.766 5.546 1.190 - - - 151.766 5.546 1.190 - - - 151.766 5.546 1.190	Years FY 2015 FY 2016 Base - - - - 151.766 5.546 1.190 1.179 - - - - 151.766 5.546 1.190 1.179 - - - - 151.766 5.546 1.190 1.179	Years FY 2015 FY 2016 Base OCO - - - - - - 151.766 5.546 1.190 1.179 - - 151.766 5.546 1.190 1.179 - - 151.766 5.546 1.190 1.179 - - 151.766 5.546 1.190 1.179 - -	Years FY 2015 FY 2016 Base OCO Total - - - - - - 151.766 5.546 1.190 1.179 - 1.179 - - - - - - 151.766 5.546 1.190 1.179 - 1.179 - - - - - - 151.766 5.546 1.190 1.179 - 1.179	Years FY 2015 FY 2016 Base OCO Total FY 2018 - - - - - - - - 151.766 5.546 1.190 1.179 - 1.179 1.179 - - - - - - - - 151.766 5.546 1.190 1.179 - 1.179 1.179 Resource Summary rows are for informational purposes only. The corresponding budget requests are documented and companies only. The corresponding budget requests are documented and companies only.	Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 -	Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 - <td>Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 - <t< td=""><td>Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -</td></t<></td>	Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 - <t< td=""><td>Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -</td></t<>	Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -

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 Buttstsock (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.

Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20

P-1 Line Item Number / Title:
GZ1290 / M249 SAW Machine Gun MODS

GZ1290 / M249 SAW Machine Gun MODS

MODS

Seconda	ary 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	=

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Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20

P-1 Line Item Number / Title:
GZ1290 / M249 SAW Machine Gun MODS

MODS

Date: February 2016

Modification Number / Title:
GZ1290 / M249 SAW Machine Gun MODS

MODS

Models of Systems Affected: M249 SAW Machine Modification Type: Increase Performance Related RDT&E PEs:

∃un

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ A			
rocurement												
Modification Item 1 of 4: M249 SAW Bipod												
B Kits												
Recurring												
Hardware	3,075 / 16.208	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3,075 / 16.20
Engineering Support	0 / 3.243	- /0.200	- / 0.025	- /0.020	- 1 -	- / 0.020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /3.4
Integrated Logistical Support	0 / 0.780	- / 0.050	- / 0.025	- / 0.025	- 1 -	- / 0.025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.8
Fielding	0 / 0.598	- / 0.072	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.6
Program Management Support	0 / 0.446	- / 0.200	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- / 0.64
Subtotal: Recurring	- /21.275	- /0.522	- /0.050	- /0.045	- / -	- /0.045	- / -	- / -	- / -	- / -	- / -	- /21.8
Subtotal: M249 SAW Bipod	3,075 / 21.275	- /0.522	- /0.050	- /0.045	- / -	- /0.045	- / -	- / -	- / -	- / -	- / -	3,075 / 21.8
Modification Item 2 of 4: M249 Short Barrel/BFA/Coll Buttstock/Ext Op-Rod B Kits												
Recurring												
Hardware	0 / 60.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /60.0
Short Barrel	11,226 / 3.889	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	11,226 / 3.8
Blank Firing Adapter	24,493 / 2.293	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	24,493 <i>l</i> 2.2
Collapsible Buttstock	7,049 / 1.715	3,429 / 1.351	1,269 / 0.500	1,260 / 0.500	- 1 -	1,260 / 0.500	1,395 / 0.550	1,260 / 0.500	1,260 / 0.500	- 1 -	- 1 -	16,922 / 5.6
Extractor and Op-Rod Kits	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	500 / 0.100	500 / 0.100	- 1 -	- 1 -	1,000 / 0.2
Engineering Support	0 / 5.053	- / 0.436	- / 0.050	- / 0.035	- 1 -	- / 0.035	- / 0.029	- / 0.029	- / 0.031	- 1 -	- 1 -	- /5.6
Integrated Logistical Support	0 / 0.670	- / 0.050	- / 0.020	- /0.020	- 1 -	- / 0.020	- /0.020	- / 0.020	- / 0.020	- 1 -	- 1 -	- / 0.83
Fielding	0 / 0.889	- / 0.246	- / 0.020	- /0.020	- 1 -	- / 0.020	- /0.020	- / 0.020	- / 0.020	- 1 -	- 1 -	- /1.2
Program Management Support	0 / 1.393	- / 0.400	- / 0.010	- / 0.010	- 1 -	- / 0.010	- / 0.010	- / 0.010	- / 0.010	- 1 -	- 1 -	- /1.8
Subtotal: Recurring	- /75.902	- /2.483	- /0.600	- /0.585	- / -	- /0.585	- /0.629	- /0.679	- /0.681	- / -	- / -	- /81.5
			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 / 81.5
Subtotal: M249 Short Barrel/BFA/Coll Buttstock/Ext Op- Rod	42,768 / 75.902	3,429 / 2.483	1,26970.600	1,20070.000								
	42,768 / 75.902	3,429 / 2.483	1,20970.000	1,2007 0.000								
Rod Modification Item 3 of 4: Lightweight Ground Mount/	42,768 / 75.902	3,429 / 2.483	1,2097 0.000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Rod Modification Item 3 of 4: Lightweight Ground Mount/ Drop-in Mount Cradle	42,768 / 75.902	3,429 / 2.483	1,2097 0.000	,,23070.000								

LI GZ1290 - M249 SAW Machine Gun MODS Army

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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

GZ1290 / M249 SAW Machine Gun MODS

GZ1290 / M249 SAW Machine Gun

290 / M249 SAW Machine Gun MODS GZ 1290 / M249 SAW Machine MODS

Models of Systems Affected: M249 SAW Machine Modification Type: Increase Performance Related RDT&E PEs:

Gun

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Hardware-Drop-in Mount Cradle	230 / 0.150	2,466 / 1.377	357 / 0.225	367 / 0.240	- 1 -	367 / 0.240	357 / 0.240	320 / 0.220	- 1 -	- 1 -	- 1 -	4,097 / 2.45
Engineering Support	0 / 3.280	- / 0.305	- / 0.050	- / 0.050	- 1 -	- / 0.050	- / 0.050	- / 0.050	- / 0.090	- 1 -	- 1 -	- /3.87
Program Management Support	0 / 0.691	- / 0.310	- / 0.075	- / 0.075	- 1 -	- / 0.075	- / 0.075	- / 0.075	- / 0.065	- 1 -	- 1 -	- / 1.36
Integrated Logistical Support	0 / 0.435	- / 0.050	- 1 -	- / 0.030	- 1 -	- / 0.030	- / 0.026	- / 0.030	- / 0.030	- 1 -	- 1 -	- / 0.60
TACOM-MWO	0 / 0.573	- / 0.150	- / 0.100	- / 0.115	- 1 -	- / 0.115	- / 0.120	- / 0.125	- / 0.315	- 1 -	- 1 -	- /1.49
FAT	- 1 -	- 1 -	- / 0.050	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.05
Subtotal: Recurring	- /37.266	- /2.192	- /0.500	- /0.510	- / -	- /0.510	- /0.511	- /0.500	- /0.500	- / -	- / -	- /41.97
Subtotal: Lightweight Ground Mount/Drop-in Mount Cradle	5,839 / 37.266	2,466 / 2.192	357 / 0.500	367 / 0.510	- / -	367 / 0.510	357 / 0.511	320 / 0.500	- /0.500	- / -	- / -	9,706 / 41.97
Modification Item 4 of 4: 200rd/Feedbox Spt Improvement Kit												
B Kits												
Recurring												
Hardware	0 / 9.800	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /9.80
200 Rd Magazine	26,793 / 1.661	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	26,793 / 1.66
Slings	7,230 / 0.534	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	7,230 / 0.53
Feedbox Support Improvement Kit	50,618 / 2.819	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	50,618 / 2.81
Engineering Support	0 / 1.742	- / 0.173	- / 0.010	- / 0.009	- 1 -	- / 0.009	- / 0.009	- 1 -	- 1 -	- 1 -	- 1 -	- / 1.94
Fielding	0 / 0.401	- / 0.076	- / 0.020	- / 0.020	- 1 -	- / 0.020	- / 0.020	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.53
Program Management Support	0 / 0.366	- / 0.100	- / 0.010	- / 0.010	- 1 -	- /0.010	- / 0.010	- 1 -	- / -	- 1 -	- 1 -	- / 0.49
Subtotal: Recurring	- /17.323	- /0.349	- /0.040	- /0.039	- / -	- /0.039	- /0.039	- / -	- / -	- / -	- / -	- /17.79
Subtotal: 200rd/Feedbox Spt Improvement Kit	84,641 / 17.323	- /0.349	- /0.040	- /0.039	- / -	- /0.039	- /0.039	- / -	- / -	- / -	- / -	84,641 / 17.79
Subtotal: Procurement, All Modification Items	136,323 / 151.766	5,895 / 5.546	1,626 / 1.190	1,627 / 1.179	- / -	1,627 / 1.179	1,752 / 1.179	2,080 / 1.179	1,760 / 1.181	- / -	- / -	151,063 163.22
Installation												
Modification Item 1 of 4: M249 SAW Bipod	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Modification Item 2 of 4: M249 Short Barrel/BFA/Coll Buttstock/Ext Op-Rod	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Modification Item 3 of 4: Lightweight Ground Mount/ Drop-in Mount Cradle	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Modification Item 4 of 4: 200rd/Feedbox Spt Improvement Kit	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Subtotal: Installation	0 /0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

LI GZ1290 - M249 SAW Machine Gun MODS Army

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Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20

P-1 Line Item Number / Title:
GZ1290 / M249 SAW Machine Gun MODS

GZ1290 / M249 SAW Machine Gun MODS

MODS

Date: February 2016

Modification Number / Title:
GZ1290 / M249 SAW Machine Gun MODS

Models of Systems Affected: M249 SAW Machine Modification Type: Increase Performance Related RDT&E PEs:

Gun

Gan												
	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
Financial Plan	Qty (Each) I 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

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 4 of 4: M240 SAW Bined		

Modification Item 1 of 4: M249 SAW Bipod

Manufacturer Informat	Manufacturer Information												
Manufacturer Name: Va	arious			Manufacturer Location: Va	arious								
Administrative Leadtime	e (in Months): 1			Production Leadtime (in N	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

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- /0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot																
In	3,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,075
Out	3,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,075

Exhibit P-3a, Indivi	dual Modific	ation: PB 2	2017 Army							Date: Fe	ebruary 201	6	
Appropriation / Bu 2033A / 02 / 20	dget Activity	/ Budget 9	Sub Activity				mber / Title: AW Machine Gun MODS				ation Numl / M249 SA	oer / Title: W Machine	Gun
Modification Item 2 of 4	: M249 Short Ba	rrel/BFA/Coll	Buttstock/Ext O	p-Rod									
Manufacturer Information	on												
Manufacturer Name: Des	sign West Techno	ologies				Manu	facturer Locatio	n: Tustin, CA					
Administrative Leadtime	(in Months): 6					Produ	ction Leadtime	(in Months): 9					
Dates	FY 20	15	FY 2016		FY 2017		FY 2018		FY 2019	F	Y 2020	FY	2021
Contract Dates	Mar 20	15	Mar 2016	6	Mar 2017		Mar 2018	1	Mar 2019	Ma	ar 2020		
Delivery Dates			3	Dec 2017		Dec 2018		Dec 2019	De	ec 2020			
Installation Information Method of Implementati		Troops											
		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
Installation (Cost	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I
Prior Years		0 / 0.000	- /0.000	- / 0.000									Total Cost (\$ M)
FY 2015			, 0.000	- 70.000	- / 0.000	- 1 -	- 10.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000
FY 2016		0 / 0.000		- / -	- / 0.000 - / -	- 1 -	(, ,	· · · /	(- /	- 10.000 - 1 -	- I - - I -	- 10.000 - 1 -	
		0 / 0.000	- 1 -				- /0.000	- /0.000	- / 0.000		•		- /0.000
FY 2017			- 1 -	- 1 -	- 1 -	- 1 -	- 10.000 - 1 -	- 10.000 - 1 -	- 10.000 - 1 -	- 1 -	- 1 -	- 1 -	- 10.000 - 1 -
FY 2017 FY 2018		0 / 0.000	- I - - I - - I -	- <i>I</i> -	- 1 -	- I - - I -	- 10.000 - 1 - - 1 -	- 10.000 - 1 - - 1 -	- 10.000 - 1 - - 1 -	- <i>1</i> -	- I - - I -	- <i>I</i> -	- 10.000 - 1 - - 1 -
		0 / 0.000	- 1 - - 1 - - 1 - - 1 -	- 1 - - 1 - - 1 -	- 1 - - 1 - - 1 -	- 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 -	- I - - I - - I -	- I - - I -	- 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 -
FY 2018		0 / 0.000 0 / 0.000 0 / 0.000) - I -) - I -) - I -) - I -	- 1 - - 1 - - 1 -	- 1 - - 1 - - 1 - - 1 -	- 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 - - 1 -	- I - - I - - I -	- I - - I - - I -	- I - - I - - I -	- 10.000 - 1 - - 1 - - 1 - - 1 -
FY 2018 FY 2019		0 /0.000 0 /0.000 0 /0.000 0 /0.000) - ! -) - ! -) - ! -) - ! -) - ! -	- I - - I - - I - - I -	- 1 - - 1 - - 1 - - 1 -	- 1 - - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 - - 1 - - 1 -	- 1 - - 1 - - 1 - - 1 -	- I - - I - - I - - I -	- I - - I - - I - - I -	- 10.000 - 1 - - 1 - - 1 - - 1 - - 1 -
FY 2018 FY 2019 FY 2020		0 /0.000 0 /0.000 0 /0.000 0 /0.000) - ! -) - ! -	- I I I I I I -	- 1 - - 1 - - 1 - - 1 - - 1 -	- I - - I - - I - - I - - I -	- 10.000 - 1 - - 1 - - 1 - - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 - - 1 - - 1 - - 1 -	- 10.000 - 1 - - 1 - - 1 - - 1 - - 1 - - 1 -	- 1 - - 1 - - 1 - - 1 - - 1 -	- I - - I - - I - - I - - I -	- I - - I - - I - - I - - I -	- 10.000 - 1 - - 1 - - 1 - - 1 - - 1 -

UNCLASSIFIED
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FY 2018

Q3

Q2

P-1 Line #26

FY 2020

Q3

Q4

Q1

Q2

Q1

FY 2019

Q2

Q3

Q4

Q1

Q4

FY 2015

Q3

Q4

Q1

Q2

FY 2016

Q3

Q4

Q1

Q2

FY 2017

Q3

Q4

Q1

Q2

Installation Schedule

PYS

22,409

Out

22,409 -

Q1

FY 2021

Q3

Q4

TC

Tot

22,409

22,409

248

Q2

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 Informatio	Manufacturer Information												
Manufacturer Name: TBD				Manufacturer Location: T	BD								
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

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot																				
In	4,438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,438
Out	4,438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,438

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Army

LI GZ1290 - M249 SAW Machine Gun MODS

Exhib	oit P	-3a, I	ndivi	du	ıal Modi	ficati	on: Pl	B 20	17 Arm	ıy														Date	: Feb	ruary	201	6			
Appr 2033/	-			dg	et Activ	rity / E	Budge	et Sı	ıb Acti	vity		1	Line I 290 /		-			Gun N	ИOD	os					290 <i>l</i>			oer / T W Mad		Gun	
Modifie	catio	n Item	4 of 4.	: 20	00rd/Feed	box Sp	t Impro	veme	nt Kit																						
Manuf	actur	er Info	ormatic	on																											
Manufa	acture	er Nam	e: Vari	ous	S											Manu	facture	r Locat	ion: V	Various											
Admini	strativ	ve Lea	dtime ((in i	Months): 1											Produ	ction L	eadtim	e (in i	Months):											
	Da	ates			FY	2015			FY 2	2016			FY	2017			FY	2018			FY	2019			FY 2	2020			FY	2021	
Contra	ct Da	tes			Oct	2014			Oct 2	2015			Oct	2016			Oct	2017													
Deliver	y Dat	tes			Oct	2014			Oct 2	2015			Oct	2016			Oct	2017													
Installa	ation	Inforn	nation																												
Metho	d of l	mplen	nentati	on	: Installed	by Tro	ops																								_
						Pi	ior Yea	ars	FY 201	5	FY 20	16	FY 2 Bas			2017 CO		2017 otal	F	FY 2018	F	FY 2019		FY 2020	0	FY 202	21	To Comp		To	tal
	ı	Install	ation C	Cos	st		Qty (Each)		Qty (Each		Qty (Ea		Qty (Ea			Each) I ost (\$ M)		(Each) I Cost (\$ M)		Qty <i>(Each) I</i> tal Cost <i>(\$ M</i>		Qty <i>(Each) I</i> tal Cost <i>(\$ I</i>		Qty (Each) Total Cost (\$		Qty (Eac		Qty (Ea		Qty (E	
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LI GZ1290 - M249 SAW Machine Gun MODS

Army

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GZ1300 / M240 Medium Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

Line Item MDAP/MAIS Code: N/A	Item MD/	AP/MAIS Cod	e(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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
(The following	Resource Sumr	nary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Secondar	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992

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Page 1 of 5

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GZ1300 / M240 Medium Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	28.296	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget requests	are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Seconda	ry 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:	Quantity	-	-	-	=	-	-	=	-	-
Secondary Distribution	Total Obligation Authority	2.836	8.424	1.784	-	1.784	1.931	1.938	1.966	0.992

Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20

P-1 Line Item Number / Title:
GZ1300 / M240 Medium Machine Gun MODS

GZ1300 / M240 Series System Improvements

Models of Systems Affected: M240 Medium Machine | Modification Type: Increase Performance | Related RDT&E PEs:

Gun

Ouri												
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I					
Procurement	100 100 (0)	,	,	,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,	,
Modification Item 1 of 1: M240 Series System Improvements												
B Kits												
Recurring												
Bipods	4,700 / 2.600	2,070 / 1.407	700 / 0.452	673 / 0.416	- 1 -	673 / 0.416	820 / 0.519	688 / 0.447	2,107 / 1.402	800 / 0.521	Continuing	Continuing
Collapsible Buttstock	5,700 / 4.400	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	5,700 / 4.4
Ti Adjustable Bipods	- 1 -	- 1 -	8,000 / 4.950	- / -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	8,000 / 4.9
Improved Buffer	34,196 / 9.200	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	34,196 / 9.2
Improved Barrel	4,400 / 3.520	- 1 -	725 / 0.870	- / -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	5,125 / 4.3
M197 MWO Kit Drop-in Mount Cradle	230 / 0.150	370 / 0.268	1,312 / 1.074	791 / 0.799	- 1 -	791 / 0.799	700 / 0.718	- 1 -	- 1 -	- 1 -	- 1 -	3,403 / 3.0
M192 Modification Work Order Kit	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1,258 / 0.766	- 1 -	- 1 -	- 1 -	1,258 / 0.7
Engineering Support	0 / 3.541	- / 0.405	- / 0.224	- / 0.183	- 1 -	- / 0.183	- / 0.180	- / 0.240	- / 0.130	- / 0.100	- 1 -	- /5.0
Program Management Support	0 / 0.850	- / 0.421	- / 0.566	- / 0.161	- 1 -	- / 0.161	- / 0.202	- / 0.285	- / 0.234	- / 0.242	- 1 -	- 12.9
Integrated Logistical Support	0 / 1.649	- / 0.100	- / 0.100	- / 0.100	- 1 -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.050	- 1 -	- /2.2
Fielding	0 / 2.386	- / 0.235	- / 0.188	- / 0.125	- 1 -	- / 0.125	- / 0.212	- / 0.100	- / 0.100	- 10.079	- 1 -	- /3.4
Subtotal: Recurring	- /28.296	- /2.836	- /8.424	- /1.784	- / -	- /1.784	- /1.931	- /1.938	- /1.966	- /0.992	Continuing	Continuing
Subtotal: M240 Series System Improvements	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
Subtotal: Procurement, All Modification Items	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
nstallation				<u> </u>								
Modification Item 1 of 1: M240 Series System Improvements	0 / 0.000	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Subtotal: Installation	0 /0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Fotal State of the												
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

P-1 Line #27

LI GZ1300 - M240 Medium Machine Gun MODS

Exh	ibit P-	-3a, I	ndivi	dual I	Modif	icatio	n: P	B 201	17 Arm	ıy														Date	: Fe	bruary	201	6			
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Modi	fication	ı Item	1 of 1:	M240	Series	Syster	m Impr	oveme	ents																						
Manu	ıfacture	er Info	rmatic	n																											
Manu	ıfactureı	r Nam	e: N/A													Manut	acture	r Locat	ion: N/	A											
Admi	nistrativ	e Lea	dtime (in Mon	ths): 6											Produ	ction L	_eadtim	e (in M	lonths)	: 7										
	Dat	tes			FY 2	2015			FY 2	2016			FY	2017			FY	2018			FY	2019			FY	2020			FY	2021	
Conti	act Date	es			Mar	2015			Mar	2016			Mar	2017			Mar	2018			Mar	2019			Mai	r 2020			Mar	2021	
Deliv	ery Date	es			Oct	2015			Oct 2	2016			Oct	2017			Oct	2018			Oct	2019			Oct	t 2020			Oct	2021	
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Insta	llation	Inforn	nation																												
Meth	od of In	nplem	entati	on: Ins	talled b	y Troo	ps																								
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Exhibit P-40, Budget Line Item Justification: PB 2017 Army Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GZ1500 / Sniper Rifles Modifications

Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles

Program Elements for Code B Items: 0604601A Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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
-	-	-	-	-	-	-	-	-	-	-	-
34.836	3.769	0.980	0.971	-	0.971	1.488	1.984	1.488	2.481	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
34.836	3.769	0.980	0.971	-	0.971	1.488	1.984	1.488	2.481	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
34.836	3.769	0.980	0.971	-	0.971	1.488	1.984	1.488	2.481	Continuing	Continuing
Resource Sumr	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	d elsewhere.)				1
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-	-	-	-	-	-	-	-	-	-	-	-
-	_	-	-	-	-	-	-	-	-	-	-
	Years	Years FY 2015 - - 34.836 3.769 - - 34.836 3.769 - - 34.836 3.769 Resource Summary rows are formula for the control of the	Years FY 2015 FY 2016 - - - 34.836 3.769 0.980 - - - 34.836 3.769 0.980 - - - 34.836 3.769 0.980 Resource Summary rows are for informational properties of the properties o	Years FY 2015 FY 2016 Base - - - - 34.836 3.769 0.980 0.971 - - - - 34.836 3.769 0.980 0.971 - - - - 34.836 3.769 0.980 0.971 Resource Summary rows are for informational purposes only. The collection of the collect	Years FY 2015 FY 2016 Base OCO - - - - - 34.836 3.769 0.980 0.971 - - - - - - 34.836 3.769 0.980 0.971 - - - - - - Resource Summary rows are for informational purposes only. The corresponding - - - - - - - - - - - - - - -	Years FY 2015 FY 2016 Base OCO Total - - - - - - 34.836 3.769 0.980 0.971 - 0.971 - - - - - - - 34.836 3.769 0.980 0.971 - 0.971 - - - - - - Resource Summary rows are for informational purposes only. The corresponding budget request - - - - - - - - - - - - - - - - - -	Years FY 2015 FY 2016 Base OCO Total FY 2018 - - - - - - - - 34.836 3.769 0.980 0.971 - 0.971 1.488 - - - - - - - - 34.836 3.769 0.980 0.971 - 0.971 1.488 Resource Summary rows are for informational purposes only. The corresponding budget requests are documented by the corresponding by the corre	Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 -	Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 - <td>Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 - <t< td=""><td>Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -</td></t<></td>	Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 - <t< td=""><td>Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -</td></t<>	Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -

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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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

UNCLASSIFIED LI GZ1500 - Sniper Rifles Modifications Army

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2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh 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 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. 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	Exhibit P-40, Budget Line Item Justification:	PB 2017 Army		Date: February 2016
Line Item MDAP/MAIS Code: N/A 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. 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	2033A: Procurement of W&TCV, Army / BA 02: 1	Weapons and Other Combat		
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. 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	ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code	B Items : 0604601A	Other Related Program Elements: N/A
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. 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	Line Item MDAP/MAIS Code: N/A			
	ECP's regarding fire control optics and any ancillary equipm			
		efense Authorization Act (P.L. 110-181), th	nis item is homeland defense	missions, domestic emergency responses, and providing military support to civil

LI GZ1500 - Sniper Rifles Modifications Army

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

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

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GC0401 / M119 Modifications

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

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

	1.00111		-(-)									
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)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are documente	d elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GC0401 / M119 Modifications

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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* Subexh		ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	GC0401 / M119 Modifications (Increase Performance)			- / 163.429	- /72.718	- /20.599	- / 6.045	- / -	- / 6.045
P-40	Total Gross/Weapon System Cost			- / 163.429	- / 72.718	- / 20.599	- / 6.045	- 1 -	- / 6.045
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title* Subexh		ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	GC0401 / M119 Modifications (Increase Performance)			- / 6.078	- /7.065	- /7.604	- / 2.282	- / -	- / 285.820
P-40	Total Gross/Weapon System Cost		- / 6.078	- /7.065	- / 7.604	- / 2.282	- 1 -	- / 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.

Justification:

FY 2017 Base procurement dollars in the amount of \$6.045 million supports the retrofit and composite fielding activites 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."

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

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2033A / 02 / 20	GC0401 / M119 Modifications	GC0401 / M119 Modifications

2033A / 02 / 20			GC	0401 / WITT	9 Modificati	ons			GC0401	7 W119 W	odifications	
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)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	- 1
Net Procurement (P-1) (\$ in Millions)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	- 1
Total Obligation Authority (\$ in Millions)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	-	285.820
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)			1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	- 1
Gross/Weapon System Unit Cost (\$ in Thousands	-	-	_	-	-	-	-	-	-	-	-	-

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.

Second	ary 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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 Arr	ny							Date: Feb	ruary 2016	3	
Appropriation / Budget Activity / Budget Sub Act 2033A / 02 / 20	ivity:	P-1 Line I GC0401 /	tem Numb M119 Mod						tion Numb M119 Mod		
Models of Systems Affected: M119A2/A3 Howitze	Modif	fication Typ	oe: Increas	e Performa	ance	Re	Related RDT&E PEs:				
Dries Vees	EV 2045	EV 2046	FY 2017	FY 2017	FY 2017	EV 2049	EV 2040	EV 2020	EV 2024	To	Total

Models of Systems Affected: M119A2/A	A3 Howitzer	Modifi	cation Typ	e: Increas	e Performa	nce	Rel	lated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$										
Procurement												
Modification Item 1 of 6: Digitization												
A Kits												
Recurring												
Integration Prod/Init Spares	431 / 111.150	71 / 22.347	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	502 / 133.4
Logistics & Fielding	0 / 13.098	- /3.785	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 16.8
Program Management	0 / 9.805	- /1.604	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 11.4
System Engineering	0 / 15.876	- /3.700	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 19.5
Engineering Change Orders (ECO)	0 / 13.500	- 12.223	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- <i>I</i> 15.7
Subtotal: Recurring	- /163.429	- /33.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /197.0
Subtotal: Digitization	431 / 163.429	71 / 33.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 197.0
Modification Item 2 of 6: Recoil Capability Package												
A Kits												
Recurring												
Recoil System Upgrade	- 1 -	375 / 32.959	127 / 11.802	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	502 / 44.7
Subtotal: Recurring	- / -	- /32.959	- /11.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /44.7
Subtotal: Recoil Capability Package	- / -	375 / 32.959	127 / 11.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 44.7
Modification Item 3 of 6: Training Devices (TADSS)												
A Kits												
Non-Recurring												
Training Devices	- 1 -	- /1.100	- /4.647	- /3.845	- 1 -	- /3.845	- /3.878	- /2.496	- /2.688	- 1 -	- 1 -	- / 18.6
Subtotal: Non-Recurring	- / -	- /1.100	- /4.647	- /3.845	- / -	- /3.845	- /3.878	- /2.496	- /2.688	- / -	- / -	- /18.6
Subtotal: Training Devices (TADSS)	- / -	- /1.100	- /4.647	- /3.845	- / -	- /3.845	- /3.878	- /2.496	- /2.688	- / -	- / -	- /18.6
Modification Item 4 of 6: Power System Management							l l					
A Kits												
Non-Recurring												
Power System Mods	- 1 -	264 / 3.500	238 / 3.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- 1 -	502 / 6.8
Subtotal: Non-Recurring	- / -	- /3.500	- /3.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /6.8
Subtotal: Power System Management	- / -	264 / 3.500	238 / 3.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 6.8
Modification Item 5 of 6: Durability Modification (Spades)									<u> </u>		1	<u> </u>
A Kits												
	1											

LI GC0401 - M119 Modifications Army

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2033A / 02 / 20	GC0401 / M119 Modifications	GC0401 / M119 Modifications

2033A / 02 / 20			GC0401 /	M119 Mod	ifications				GC0401 /	M119 Mod	ifications	
Models of Systems Affected: M119A2/	'A3 Howitzer	Modifi	cation Typ	e: Increas	e Performa	ince	Re	lated RDT	&E PEs:			
	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) Total Cost (\$										
Kit Quantity	- 1 -	98 / 1.500	53 / 0.835	- 1 -	- 1 -	- 1 -	- 1 -	165 / 2.414	186 / 2.765	- 1 -	- 1 -	502 / 7.5
Subtotal: Recurring	- / -	- /1.500	- /0.835	- / -	- / -	- / -	- / -	- /2.414	- /2.765	- / -	- / -	- /7.5
Subtotal: Durability Modification (Spades)	- / -	98 / 1.500	53 / 0.835	- / -	- / -	- / -	- / -	165 / 2.414	186 / 2.765	- / -	- / -	502 / 7.5
Modification Item 6 of 6: Retrofit and Composite Fielding Activities											,	,
A Kits												
Recurring												
Retrofit and Composite Fielding Activiti	- 1 -	- 1 -	- 1 -	- /2.200	- 1 -	- /2.200	- /2.200	- /2.155	- /2.151	- /2.282	- 1 -	- / 10.9
Subtotal: Recurring	- / -	- / -	- / -	- /2.200	- / -	- /2.200	- /2.200	- /2.155	- /2.151	- /2.282	- / -	- /10.9
Subtotal: Retrofit and Composite Fielding Activities	- / -	- / -	- / -	- /2.200	- / -	- /2.200	- /2.200	- /2.155	- /2.151	- /2.282	- / -	- /10.9
Subtotal: Procurement, All Modification Items	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 / 285.8
nstallation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /
Total												
Total Cost (Procurement + Support + Installation)	163.429	72.718	20.599	6.045	-	6.045	6.078	7.065	7.604	2.282	_	285.8

LI GC0401 - M119 Modifications Army

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Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army			Date:					
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GC0401 / M119 M			I	odification Number / Title: C0401 / M119 Modifications			
Modification Item 1 of 6	: Digitization		-							
Manufacturer Information	on									
/lanufacturer Name: Vari	ious			Manufacturer Location: Va	arious					
Administrative Leadtime	(in Months): 4			Production Leadtime (in M	fonths): 11					
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021			
Contract Dates	Jan 2015									
Delivery Dates	Dec 2015									
nstallation Information										
Method of Implementati	ion (Organic): Organic				Installation C	Quantity: 0				

LI GC0401 - M119 Modifications

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Exhibit P-3a, Indivi	dual Modification: Pl	B 2017 Army				Date: February 2016			
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GC0401 / M119 N			Modification Number / Title: GC0401 / M119 Modifications			
Modification Item 2 of 6	: Recoil Capability Package	;	-						
Manufacturer Informati	on								
Manufacturer Name: Var	ious			Manufacturer Location: Va	arious				
Administrative Leadtime	(in Months): 4			Production Leadtime (in M	fonths): 2				
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 202		
Contract Dates	Apr 2015	Jan 2016							
elivery Dates	1 - 0045	Mar 2016							
Delivery Dates	Jun 2015	IVIAI 2010							
nstallation Information		IVIAI 2010							
nstallation Information		IVIAI 2010			Installation Q	uantity: 0			
nstallation Information		IVIAI 2010			Installation Q	uantity: 0			
nstallation Information		IVIAL 2010			Installation Q	uantity: 0			
nstallation Information		IVIAI 2010			Installation Q	uantity: 0			
nstallation Information		IVIAI 2010			Installation Q	uantity: 0			
nstallation Information		Wal 2010			Installation Q	uantity: 0			
nstallation Information		IVIAI 2010			Installation Q	uantity: 0			
nstallation Information		Wal 2010			Installation Q	uantity: 0			
· · · · · · · · · · · · · · · · · · ·		Wal 2010			Installation C	uantity: 0			

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Exhibit P-3a, Indivi		Date: February 2016						
Appropriation / Bud 2033A / 02 / 20	dget Activity / Budge	t Sub Activity:		P-1 Line Item Number / Title: GC0401 / M119 Modifications Modification Number GC0401 / M119 Modifications				
Modification Item 3 of 6	: Training Devices (TADSS)					•		
Manufacturer Information	on							
Manufacturer Name: Orga	anic			Manufacturer Location: Va	arious			
Administrative Leadtime ((in Months): 9			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	

CO401 / M119 Modifications GC0401 / M119 Modifications GC0401 / M119 Modifications	lification Number / Title: 0401 / M119 Modifications FY 2020 FY 2020				et Sub Activity:	get Activity / Budge		
Manufacturer Information Manufacturer Name: TBD Manufacturer Location: TBD Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 2 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 Contract Dates Apr 2015 Jan 2016 Part 2019 Part 2019 Part 2019 Delivery Dates Jun 2015 Mar 2016 Part 2019 Part 2019 Part 2019 Installation Information	FY 2020 FY 202	·		*			2033A / 02 / 20	
Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 2 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 Contract Dates Apr 2015 Jan 2016 Image: Contract Dates of the contr	FY 2020 FY 202				ent	Power System Manageme	Modification Item 4 of 6: F	
Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 2 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 Contract Dates Apr 2015 Jan 2016 Delivery Dates Jun 2015 Mar 2016 Installation Information	FY 2020 FY 202						Manufacturer Information	
Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 Contract Dates Apr 2015 Jan 2016 Installation Information Installation Information<	FY 2020 FY 202		Manufacturer Location: TBD				Manufacturer Name: TBD	
Contract Dates Apr 2015 Jan 2016 Delivery Dates Jun 2015 Mar 2016 Installation Information	FY 2020 FY 202		Production Leadtime (in Mor			dministrative Leadtime (in Months): 4		
Delivery Dates Jun 2015 Mar 2016 Installation Information		Y 2019 FY 2020	FY 2018	FY 2017	FY 2016	FY 2015	Dates	
Installation Information					Jan 2016	Apr 2015	Contract Dates	
					Mar 2016	Jun 2015	Delivery Dates	
Method of Implementation (Organic): Organic Installation Quantity: 0							Installation Information	
	0	stallation Quantity: 0				n (Organic): Organic	Method of Implementation	

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Exhibit P-3a, Indivi	dual Modification: Pl		Date: February 2016						
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu GC0401 / M119 N		Modification Number / Title: GC0401 / M119 Modifications				
Modification Item 5 of 6	: Durability Modification (Sp	pades)	·						
Manufacturer Informati	on								
Manufacturer Name: TBI)	_		Manufacturer Location: TE	BD				
Administrative Leadtime	(in Months): 4			Production Leadtime (in M	roduction Leadtime (in Months): 2				
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 Implementat	on (Organic): Organic				Installation (Quantity: 0			

Exhibit P-3a, Individ	dual Modification: PE	3 2017 Army				Date: February 2016	;	
Appropriation / Buo 2033A / 02 / 20	Iget Activity / Budge	t Sub Activity:	P-1 Line Item Nu GC0401 / M119 M					
Modification Item 6 of 6:	Retrofit and Composite Fie	Iding Activities	·			·		
Manufacturer Informatio	n							
Manufacturer Name: TBD				Manufacturer Location: Va	arious			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 2				
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020		
Contract Dates			Jan 2017 Jan 2018 Jan 2019	18 Jan 2019 Jan 2020	Jan 2020	Jan 2020	Jan 2021	
Delivery Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	
Installation Information								
Method of Implementation	on (Organic): Organic				Installation (Quantity: 0		

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

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

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G02100 / Mortar Modification

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	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.

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

G02100 / Mortar Modification

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): 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) I (\$ M)				
P-3a	G02100 / Mortar Modification (Army Mortar Modernization)			- / -	- /7.903	- / 6.300	- / 12.118	- / -	- / 12.118
P-40	Total Gross/Weapon System Cost			- 1 -	- /7.903	- / 6.300	- / 12.118	- 1 -	- / 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) I (\$ 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	- 1 -	- 1 -	- / 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

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2033A / 02 / 20	G02100 / Mortar Modification	G02100 / Mortar Modification

2033A / 02 / 20		G02 100 / Mortal Modification G02 100 / Mortal Mc									Modification		
D	Prior	EV 0045	EV 0046	FY 2017	FY 2017	FY 2017	FV 0040	EV 0040	FV 0000	EV 0004	To	Tatal	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total	
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	-	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082	
(The following	(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)	-	-	-	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.

Secondar	y 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-

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LI G02100 - Mortar Modification Army

P-1 Line #30

Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20

Date: February 2016

Modification Number / Title:
G02100 / Mortar Modification

G02100 / Mortar Modification

Models of Systems Affected: M224A1, M252A1, Modification Type: Army Mortar Modernization Related RDT&E PEs:

M120A1, M121

	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
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I
Procurement	, ,	, , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	,	,		''' ''' ''	,
Modification Item 1 of 1: Mortar Modification												
A Kits		•										
Recurring												
Aiming Post Lights	- 1 -	1,135 / 0.928	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1,135 / 0.928
Range Indicators	- 1 -	505 / 0.938	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	505 / 0.938
M191A1 Bipods	- 1 -	60 / 1.800	303 / 5.850	303 / 6.238	- 1 -	303 / 6.238	34 / 1.123	- 1 -	- 1 -	- 1 -	- 1 -	700 / 15.01 ²
M224A1 H&FM MOD	- 1 -	- 1 -	- 1 -	400 / 1.900	- 1 -	400 / 1.900	400 / 1.700	400 / 1.700	362 / 1.539	- 1 -	- / -	1,562 / 6.839
Engineering/Program Support	- 1 -	- / 0.362	- / 0.250	- /1.480	- 1 -	- /1.480	- /1.805	- /1.680	- /2.658	- 1 -	- 1 -	- /8.235
PM-LTV Integration effort	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /1.000	- / 0.947	- 1 -	- 1 -	- 1 -	- /1.947
New Equipment Training	- 1 -	- / 0.465	- /0.200	- /1.400	- 1 -	- /1.400	- /1.490	- /1.403	- / 0.461	- 1 -	- 1 -	- /5.419
Fielding / Install	- 1 -	- 1 -	- 1 -	- / 0.600	- 1 -	- /0.600	- / 0.620	- / 0.635	- /0.600	- 1 -	- 1 -	- /2.455
Subtotal: Recurring	- / -	- /4.493	- /6.300	- /11.618	- / -	- /11.618	- /7.738	- /6.365	- /5.258	- / -	- / -	- /41.772
Non-Recurring												1
M67 ECP	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.400	- 1 -	- 1 -	- 1 -	- /0.400
First Article Acceptance Testing	- 1 -	- / 0.250	- 1 -	- /0.400	- 1 -	- /0.400	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.650
Tech Manuals	- 1 -	- / 0.100	- 1 -	- / 0.100	- 1 -	- /0.100	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.200
Bennet Labs Cannon Effort	- 1 -	- /1.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- /1.000
New Cannon Inspection Method	- 1 -	- /0.600	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.600
New Cannon Qual	- 1 -	- /1.460	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /1.460
Subtotal: Non-Recurring	- / -	- /3.410	- / -	- /0.500	- / -	- /0.500	- / -	- /0.400	- / -	- / -	- / -	- /4.310
Subtotal: Mortar Modification	- / -	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
Subtotal: Procurement, All Modification Items	- / -	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												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	_	7.903	6.300	12.118	-	12.118	7.738	6.765	5.258	-	-	46.082

LI G02100 - Mortar Modification Army

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P-1 Line #30

Exhibit P-3a, Indiv	idual Modification: Pl	3 2017 Army			Date: Febru					
Appropriation / B u 2033A / 02 / 20	idget Activity / Budge	t Sub Activity:	P-1 Line Item Nu G02100 / Mortar N			Modification Number / Title: G02100 / Mortar Modification				
Modification Item 1 of	1: Mortar Modification		·							
Manufacturer Informat	ion									
Manufacturer Name: TB	S			Manufacturer Location: TE	BD					
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 2015	Jun 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020				
	Jun 2016	Nov 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021				

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)

Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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)	197.277	2.089	3.737	3.157	-	3.157	3.462	3.468	3.489	3.521	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	197.277	2.089	3.737	3.157	-	3.157	3.462	3.468	3.489	3.521	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	197.277	2.089	3.737	3.157	-	3.157	3.462	3.468	3.489	3.521	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Secondar	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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 Justificat	ion: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget 2033A: Procurement of W&TCV, Army / BAVehicles / BSA 20: Mod of Weapons and C	N 02: Weapons and Other Combat	P-1 Line Item Num GC0925 / Modificati	ber / Title: ions Less Than \$5.0m (WOCV-WTCV)
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code	3 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 sig all non-lethal ammunitions.	ht adapters for the M26 shotgun. The sight ada	oters are shotgun accessory	components that improve the aim point accuracy of the shotgun with the use of
In accordance with Section 1815 of the FY 2008 Nati defense missions, domestic emergency responses, a		nis item is necessary for use b	by the active and reserve components of the Armed Forces for homeland

LI GC0925 - Modifications Less Than \$5.0m (WOCV-WTCV... Army

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GL3200 / Items Less Than \$5.0m (WOCV-WTCV)

Vehicles / BSA 30: Support Equipment & Facilities

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	125.972	1.604	2.848	2.331	-	2.331	2.295	2.616	2.949	2.978	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	125.972	1.604	2.848	2.331	-	2.331	2.295	2.616	2.949	2.978	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	125.972	1.604	2.848	2.331	-	2.331	2.295	2.616	2.949	2.978	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are documente	ed elsewhere.)			ĺ	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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.

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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.

UNCLASSIFIED
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Exhibit P-40, Budget Line Item Justification	n: PB 2017 Army		Date: February 2016	
Appropriation / Budget Activity / Budget Society 2033A: Procurement of W&TCV, Army / BA 0. Vehicles / BSA 30: Support Equipment & Facility	2: Weapons and Other Combat lilities		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:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GC0050 / Production Base Support (WOCV-WTCV)

Vehicles / BSA 30: Support Equipment & Facilities

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

		-(-)									
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
-	-	-	-	-	-	-	-	-	-	-	-
457.314	8.911	9.027	-	-	-	0.992	3.313	3.376	3.471	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
457.314	8.911	9.027	-	-	-	0.992	3.313	3.376	3.471	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
457.314	8.911	9.027	-	-	-	0.992	3.313	3.376	3.471	Continuing	Continuing
Resource Sumr	mary rows are fo	r informational pu	urposes only. Th	ne corresponding	budget requests	s are documente	d elsewhere.)				
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
	Prior Years - 457.314 - 457.314 - 457.314 Resource Sumr	Prior Years FY 2015	Years FY 2015 FY 2016 - - - 457.314 8.911 9.027 - - - 457.314 8.911 9.027 - - - 457.314 8.911 9.027 Resource Summary rows are for informational purposes - - - - - - - - - - - - - -	Prior Years FY 2015 FY 2016 FY 2017 - - - - 457.314 8.911 9.027 - - - - - 457.314 8.911 9.027 - - - - - 457.314 8.911 9.027 - Resource Summary rows are for informational purposes only. The contractional purposes only. The contraction purposes only. The c	Prior Years FY 2015 FY 2016 FY 2017 Base FY 2017 OCO - - - - - - 457.314 8.911 9.027 - - 457.314 8.911 9.027 - - - - - - - 457.314 8.911 9.027 - - 457.314 8.911 9.027 - - Resource Summary rows are for informational purposes only. The corresponding - - - - - - - - - - - - - - -	Prior Years FY 2015 FY 2016 FY 2017 Base FY 2017 OCO FY 2017 Total - - - - - - - - 457.314 8.911 9.027 - - - - 457.314 8.911 9.027 - - - - 457.314 8.911 9.027 - - - - Resource Summary rows are for informational purposes only. The corresponding budget request - - - - - - - - - - - - - - - - - -	Prior Years FY 2015 FY 2016 FY 2017 Base FY 2017 OCO Total Total Total Total FY 2018 -	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 - <td>Prior Years FY 2015 FY 2016 FY 2017 Base FY 2017 OCO FY 2017 Total FY 2018 FY 2019 FY 2020 -</td> <td>Prior Years FY 2015 FY 2016 Base FY 2017 OCO FY 2017 Total FY 2018 FY 2019 FY 2020 FY 2021 -</td> <td>Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -</td>	Prior Years FY 2015 FY 2016 FY 2017 Base FY 2017 OCO FY 2017 Total FY 2018 FY 2019 FY 2020 -	Prior Years FY 2015 FY 2016 Base FY 2017 OCO FY 2017 Total FY 2018 FY 2019 FY 2020 FY 2021 -	Prior Years FY 2015 FY 2016 Base OCO Total FY 2018 FY 2019 FY 2020 FY 2021 Complete -

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.

Secondar	y 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GC0050 / Production Base Support (WOCV-WTCV)

Vehicles / BSA 30: Support Equipment & Facilities

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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) I (\$ M)	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	- 1 -	- 1 -	- 1 -

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

Note: Totals in this Exhibit P-40 set may not be exact or 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".

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

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 02 / 30

Date: February 2016

Aggregated Items Title:

GC0050 / Production Base Support (WOCV-WTCV)

Various

2000/1/02/00								7110000		90.00			• • •		arioao				
			Prior Yea	rs		FY 2015			FY 2016		FY	′ 2017 Ba	se	F	Y 2017 OC	co	FY	' 2017 Tot	tal
Item Number / Title [DODIC]	ID MA	^{IS} Unit Co	st Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
PIF2 OMNIBUS (WOCV-WTCV)																			
GC2001 / PIF2 OMNIBUS (WOCV- WTCV)			-	319.449	-	-	8.292	-	-	8.398	-	-	-	-	-	-	-	-	-
Secondary Distribution	Secondary Distribution																		
Army			-	-		-	8.292		-	8.398		-	-		-	-		-	-
GC2100 / LAYAWAY OF INDUSTRIAL FACILITIES			-	137.865	-	-	0.619	-	-	0.629	-	-	-	-	-	-	-	-	-
Secondary Distribution																			-
Army			-	-		-	0.619		-	0.629		-	-		-	-		-	-
Subtotal: PIF2 OMNIBUS (WTCV)	wocv-			457.314	-	-	8.911	-	-	9.027	-	-	-	-	-	-	-	-	-
Total						-	8.911	-	-	9.027	-	-	-	-	-	-	-	-	-

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

P-1 Line #33

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GC0075 / Industrial Preparedness

Vehicles / BSA 30: Support Equipment & Facilities

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

D	Prior	EV 0045	EV 0040	FY 2017	FY 2017	FY 2017	EV 0040	EV 0040	E)/ 0000	EV 0004	То	T-4-1
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	121.002	0.414	0.304	-	-	-	-	-	-	-	-	121.720
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	121.002	0.414	0.304	-	-	-	-	-	-	-	-	121.720
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	121.002	0.414	0.304	-	-	-	-	-	-	-	-	121.720
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	=	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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.

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

GC0076 / Small Arms Equipment (Soldier Enh Prog)

Vehicles / BSA 30: Support Equipment & Facilities

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

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)	107.624	1.682	2.392	3.155	-	3.155	3.122	3.283	3.349	3.417	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	107.624	1.682	2.392	3.155	-	3.155	3.122	3.283	3.349	3.417	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	107.624	1.682	2.392	3.155	-	3.155	3.122	3.283	3.349	3.417	Continuing	Continuing
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)				i e
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	_	-	-	-	-	-	-	-	-

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.

Seconda	ry 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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	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."