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**Department of Defense
Fiscal Year (FY) 2018 Budget Estimates**

May 2017



Army

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

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PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and government and contractor-owned equipment, layaway; and other expenses necessary for the foregoing purposes, \$3,614,747 to remain available for obligation until September 30, 2020.

The following Justification Books were prepared at a cost of \$250,916: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 - Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 6, and Budget Activity 7.

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Department of the Army
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

03 May 2017

Appropriation -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
Procurement of W&TCV, Army	2,428,876	1,947,936	2,698,454
Total Department of the Army	2,428,876	1,947,936	2,698,454

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03 May 2017

<u>Appropriation</u>	FY 2017 PB Request with CR Adj OCO	FY 2017 Total PB Requests* with CR Adj OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj OCO
Procurement of W&TCV, Army	486,630	486,630		486,630
Total Department of the Army	486,630	486,630		486,630

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Department of the Army
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<u>Appropriation</u>	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA	FY 2017 Total PB Requests* with CR Adj Base + OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj Base + OCO
Procurement of W&TCV, Army	2,434,566	3,185,084		3,185,084
Total Department of the Army	2,434,566	3,185,084		3,185,084

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Department of the Army
FY 2018 President's Budget Request
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Total Obligational Authority
(Dollars in Thousands)

03 May 2017

<u>Appropriation</u>	<u>FY 2018 Base</u>	<u>FY 2018 OCO</u>	<u>FY 2018 Total</u>
Procurement of W&TCV, Army	2,423,608	1,191,139	3,614,747
Total Department of the Army	2,423,608	1,191,139	3,614,747

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Department of the Army
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 (Dollars in Thousands)

03 May 2017

Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2016 Base + OCO	FY 2017 PB Request with CR Adj Base	FY 2017 Total PB Requests* with CR Adj Base
01. Tracked Combat Vehicles	2,188,882	2,051,424	2,738,357
02. Weapons and Other Combat Vehicles	239,994	213,753	277,338
20. Undistributed		-317,241	-317,241
Total Procurement of W&TCV, Army	2,428,876	1,947,936	2,698,454

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03 May 2017

Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2017 PB Request with CR Adj OCO	FY 2017 Total PB Requests* with CR Adj OCO	FY 2017 Less Enacted Div B P.L. 114-254** OCO	FY 2017 Remaining Req with CR Adj OCO
-----	-----	-----	-----	-----
01. Tracked Combat Vehicles	131,134	131,134		131,134
02. Weapons and Other Combat Vehicles	22,410	22,410		22,410
20. Undistributed	333,086	333,086		333,086
Total Procurement of W&TCV, Army	486,630	486,630		486,630

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03 May 2017

Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA	FY 2017 Total PB Requests* with CR Adj Base + OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj Base + OCO
01. Tracked Combat Vehicles	2,182,558	2,869,491		2,869,491
02. Weapons and Other Combat Vehicles	236,163	299,748		299,748
20. Undistributed	15,845	15,845		15,845
Total Procurement of W&TCV, Army	2,434,566	3,185,084		3,185,084

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03 May 2017

Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2018 Base	FY 2018 OCO	FY 2018 Total
01. Tracked Combat Vehicles	2,216,241	1,191,139	3,407,380
02. Weapons and Other Combat Vehicles	207,367		207,367
20. Undistributed			
Total Procurement of W&TCV, Army	2,423,608	1,191,139	3,614,747

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Department of the Army
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03 May 2017

Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO		FY 2017 PB Request with CR Adj Base		FY 2017 Total PB Requests* with CR Adj Base		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
<u>Budget Activity 01: Tracked Combat Vehicles</u>										
Tracked Combat Vehicles										
1	Bradley Program	B								U
2	Armored Multi Purpose Vehicle (AMPV)	A								U
3	Stryker Vehicle			175,474		71,680		71,680		U
Modification of Tracked Combat Vehicles										
4	Stryker (MOD)	A		388,385		74,348		82,681		U
5	Stryker Upgrade	A	136	412,043		444,561		444,561		U
6	Bradley Program (MOD)	A		210,042		276,433		490,033		U
7	M109 FOV Modifications	A		51,129		63,138		63,138		U
8	Paladin Integrated Management (PIM)	A	30	273,850	36	469,305	36	469,305		U
9	Improved Recovery Vehicle (M88A2 Hercules)	A	47	187,129	22	91,963	61	226,963		U
10	Assault Bridge (Mod)			2,461		3,465		3,465		U
11	Assault Breacher Vehicle	A		2,975		2,928		2,928		U
12	M88 FOV MODS	A		14,878		8,685		8,685		U
13	Joint Assault Bridge	A	5	33,455	9	64,752	9	64,752		U
14	M1 Abrams Tank (MOD)	A		430,939		480,166		480,166		U
15	Abrams Upgrade Program	A					27	330,000		U

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Department of the Army
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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj		FY 2017 Total PB Requests* with CR Adj		FY 2017 Less Enacted Div B P.L.114-254**		FY 2017 Remaining Req with CR Adj		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
<u>Budget Activity 01: Tracked Combat Vehicles</u>											
Tracked Combat Vehicles											
1	Bradley Program	B									U
2	Armored Multi Purpose Vehicle (AMPV)	A									U
3	Stryker Vehicle										U
Modification of Tracked Combat Vehicles											
4	Stryker (MOD)	A									U
5	Stryker Upgrade	A									U
6	Bradley Program (MOD)	A									U
7	M109 FOV Modifications	A									U
8	Paladin Integrated Management (PIM)	A	12	125,184	12	125,184			12	125,184	U
9	Improved Recovery Vehicle (M88A2 Hercules)	A									U
10	Assault Bridge (Mod)			5,950		5,950				5,950	U
11	Assault Breacher Vehicle	A									U
12	M88 FOV MODS	A									U
13	Joint Assault Bridge	A									U
14	M1 Abrams Tank (MOD)	A									U
15	Abrams Upgrade Program	A									U

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tracked Combat Vehicles											
Tracked Combat Vehicles											
1	Bradley Program	B									U
2	Armored Multi Purpose Vehicle (AMPV)	A									U
3	Stryker Vehicle			71,680		71,680				71,680	U
Modification of Tracked Combat Vehicles											
4	Stryker (MOD)	A		74,348		82,681				82,681	U
5	Stryker Upgrade	A		444,561		444,561				444,561	U
6	Bradley Program (MOD)	A		276,433		490,033				490,033	U
7	M109 FOV Modifications	A		63,138		63,138				63,138	U
8	Paladin Integrated Management (PIM)	A	48	594,489	48	594,489			48	594,489	U
9	Improved Recovery Vehicle (M88A2 Hercules)	A	22	91,963	61	226,963			61	226,963	U
10	Assault Bridge (Mod)			9,415		9,415				9,415	U
11	Assault Breacher Vehicle	A		2,928		2,928				2,928	U
12	M88 FOV MODS	A		8,685		8,685				8,685	U
13	Joint Assault Bridge	A	9	64,752	9	64,752			9	64,752	U
14	M1 Abrams Tank (MOD)	A		480,166		480,166				480,166	U
15	Abrams Upgrade Program	A			27	330,000			27	330,000	U

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
<u>Budget Activity 01: Tracked Combat Vehicles</u>									
Tracked Combat Vehicles									
1	Bradley Program	B			60	200,000	60	200,000	U
2	Armored Multi Purpose Vehicle (AMPV)	A	42	193,715	65	253,903	107	447,618	U
3	Stryker Vehicle								U
Modification of Tracked Combat Vehicles									
4	Stryker (MOD)	A		97,552				97,552	U
5	Stryker Upgrade	A							U
6	Bradley Program (MOD)	A		444,851		30,000		474,851	U
7	M109 FOV Modifications	A		64,230				64,230	U
8	Paladin Integrated Management (PIM)	A	59	646,413	12	125,736	71	772,149	U
9	Improved Recovery Vehicle (M88A2 Hercules)	A	16	72,402			16	72,402	U
10	Assault Bridge (Mod)			5,855				5,855	U
11	Assault Breacher Vehicle	A	7	34,221			7	34,221	U
12	M88 FOV MODS	A		4,826				4,826	U
13	Joint Assault Bridge	A	27	128,350			27	128,350	U
14	M1 Abrams Tank (MOD)	A		248,826		138,700		387,526	U
15	Abrams Upgrade Program	A	20	275,000	36	442,800	56	717,800	U

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017 PB Request with CR Adj Base		FY 2017 Total PB Requests* with CR Adj Base		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
Support Equipment & Facilities										
16	Production Base Support (TCV-WTCV)			6,122						U
Total Tracked Combat Vehicles				2,188,882		2,051,424		2,738,357		
Budget Activity 02: Weapons and Other Combat Vehicles										

Weapons & Other Combat Vehicles										
17	Integrated Air Burst Weapon System Family	A				9,764		9,764		U
18	M240 Medium Machine Gun (7.62MM)	A		7,000						U
19	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S	A								U
20	Mortar Systems			12,021		8,332		16,532		U
21	XM320 Grenade Launcher Module (GLM)	A		13,516		3,062		3,062		U
22	Compact Semi-Automatic Sniper System	A				992		992		U
23	Carbine	A		31,260		40,493		40,493		U
24	Common Remotely Operated Weapons Station			40,500		25,164		25,164		U
25	Handgun	A						2,500		U
Mod of Weapons and Other Combat Veh										
26	MK-19 Grenade Machine Gun Mods					4,959		4,959		U
27	M777 Mods	A		10,070		11,913		33,600		U
28	M4 Carbine Mods	A		27,566		29,752		29,752		U
29	M2 50 Cal Machine Gun Mods	B		43,720		48,582		48,582		U

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj		FY 2017 Total PB Requests* with CR Adj		FY 2017 Less Enacted Div B P.L.114-254**		FY 2017 Remaining Req with CR Adj		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Support Equipment & Facilities											
16	Production Base Support (TCV-WTCV)										U
Total Tracked Combat Vehicles				131,134		131,134				131,134	
Budget Activity 02: Weapons and Other Combat Vehicles											
Weapons & Other Combat Vehicles											
17	Integrated Air Burst Weapon System Family	A									U
18	M240 Medium Machine Gun (7.62MM)	A									U
19	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S	A									U
20	Mortar Systems			22,410		22,410				22,410	U
21	XM320 Grenade Launcher Module (GLM)	A									U
22	Compact Semi-Automatic Sniper System	A									U
23	Carbine	A									U
24	Common Remotely Operated Weapons Station										U
25	Handgun	A									U
Mod of Weapons and Other Combat Veh											
26	MK-19 Grenade Machine Gun Mods										U
27	M777 Mods	A									U
28	M4 Carbine Mods	A									U
29	M2 50 Cal Machine Gun Mods	B									U

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Line No	Item Nomenclature	Ident Code	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA		FY 2017 Total PB Requests* with CR Adj Base + OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj Base + OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Support Equipment & Facilities											
16	Production Base Support (TCV-WTCV)										U
Total Tracked Combat Vehicles				2,182,558		2,869,491				2,869,491	
Budget Activity 02: Weapons and Other Combat Vehicles											
Weapons & Other Combat Vehicles											
17	Integrated Air Burst Weapon System Family	A		9,764		9,764				9,764	U
18	M240 Medium Machine Gun (7.62MM)	A									U
19	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S	A									U
20	Mortar Systems			30,742		38,942				38,942	U
21	XM320 Grenade Launcher Module (GLM)	A		3,062		3,062				3,062	U
22	Compact Semi-Automatic Sniper System	A		992		992				992	U
23	Carbine	A		40,493		40,493				40,493	U
24	Common Remotely Operated Weapons Station			25,164		25,164				25,164	U
25	Handgun	A				2,500				2,500	U
Mod of Weapons and Other Combat Veh											
26	MK-19 Grenade Machine Gun Mods			4,959		4,959				4,959	U
27	M777 Mods	A		11,913		33,600				33,600	U
28	M4 Carbine Mods	A		29,752		29,752				29,752	U
29	M2 50 Cal Machine Gun Mods	B		48,582		48,582				48,582	U

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Department of the Army
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 (Dollars in Thousands)

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Support Equipment & Facilities									
16	Production Base Support (TCV-WTCV)								U
Total Tracked Combat Vehicles				2,216,241		1,191,139		3,407,380	
Budget Activity 02: Weapons and Other Combat Vehicles									
Weapons & Other Combat Vehicles									
17	Integrated Air Burst Weapon System Family	A							U
18	M240 Medium Machine Gun (7.62MM)	A		1,992			1,992		U
19	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S	A		6,520			6,520		U
20	Mortar Systems			21,452			21,452		U
21	XM320 Grenade Launcher Module (GLM)	A		4,524			4,524		U
22	Compact Semi-Automatic Sniper System	A							U
23	Carbine	A		43,150			43,150		U
24	Common Remotely Operated Weapons Station			750			750		U
25	Handgun	A		8,326			8,326		U
Mod of Weapons and Other Combat Veh									
26	MK-19 Grenade Machine Gun Mods			2,000			2,000		U
27	M777 Mods	A		3,985			3,985		U
28	M4 Carbine Mods	A		31,315			31,315		U
29	M2 50 Cal Machine Gun Mods	B		47,414			47,414		U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO		FY 2017 PB Request with CR Adj Base		FY 2017 Total PB Requests* with CR Adj Base		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
30	M249 Saw Machine Gun Mods			1,190		1,179		1,179	U	
31	M240 Medium Machine Gun Mods	A		1,708		1,784		1,784	U	
32	Sniper Rifles Modifications			980		971		971	U	
33	M119 Modifications	A		23,417		6,045		37,243	U	
34	Mortar Modification	A		6,300		12,118		12,118	U	
35	Modifications Less Than \$5.0m (WOCV-WTCV)			3,737		3,157		3,157	U	
Support Equipment & Facilities										
36	Items Less Than \$5.0m (WOCV-WTCV)			3,408		2,331		2,331	U	
37	Production Base Support (WOCV-WTCV)			9,027					U	
38	Industrial Preparedness			304					U	
39	Small Arms Equipment (Soldier Enh Prog)			2,392		3,155		3,155	U	
40	Closed Account Adjustments			1,878					U	
Total Weapons and Other Combat Vehicles				239,994		213,753		277,338		
Budget Activity 20: Undistributed										
Undistributed										
41	Adj to Match Continuing Resolution	A				-317,241		-317,241	U	
Total Undistributed						-317,241		-317,241		
Total Procurement of W&TCV, Army				2,428,876		1,947,936		2,698,454		

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Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO		FY 2017 Total PB Requests* with CR Adj OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	M249 Saw Machine Gun Mods										U
31	M240 Medium Machine Gun Mods	A									U
32	Sniper Rifles Modifications										U
33	M119 Modifications	A									U
34	Mortar Modification	A									U
35	Modifications Less Than \$5.0m (WOCV-WTCV)										U
Support Equipment & Facilities											
36	Items Less Than \$5.0m (WOCV-WTCV)										U
37	Production Base Support (WOCV-WTCV)										U
38	Industrial Preparedness										U
39	Small Arms Equipment (Soldier Enh Prog)										U
40	Closed Account Adjustments										U
Total Weapons and Other Combat Vehicles				22,410		22,410				22,410	
Budget Activity 20: Undistributed											
Undistributed											
41	Adj to Match Continuing Resolution	A		333,086		333,086				333,086	U
Total Undistributed				333,086		333,086				333,086	
Total Procurement of W&TCV, Army				486,630		486,630				486,630	

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Line No	Item Nomenclature	Ident Code	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA		FY 2017 Total PB Requests* with CR Adj Base + OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj Base + OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	M249 Saw Machine Gun Mods			1,179		1,179				1,179	U
31	M240 Medium Machine Gun Mods	A		1,784		1,784				1,784	U
32	Sniper Rifles Modifications			971		971				971	U
33	M119 Modifications	A		6,045		37,243				37,243	U
34	Mortar Modification	A		12,118		12,118				12,118	U
35	Modifications Less Than \$5.0m (WOCV-WTCV)			3,157		3,157				3,157	U
Support Equipment & Facilities											
36	Items Less Than \$5.0m (WOCV-WTCV)			2,331		2,331				2,331	U
37	Production Base Support (WOCV-WTCV)										U
38	Industrial Preparedness										U
39	Small Arms Equipment (Soldier Enh Prog)			3,155		3,155				3,155	U
40	Closed Account Adjustments										U
Total Weapons and Other Combat Vehicles				236,163		299,748				299,748	
Budget Activity 20: Undistributed											
Undistributed											
41	Adj to Match Continuing Resolution	A		15,845		15,845				15,845	U
Total Undistributed				15,845		15,845				15,845	
Total Procurement of W&TCV, Army				2,434,566		3,185,084				3,185,084	

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Department of the Army
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

03 May 2017

Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	M249 Saw Machine Gun Mods			3,339				3,339	U
31	M240 Medium Machine Gun Mods	A		4,577				4,577	U
32	Sniper Rifles Modifications			1,488				1,488	U
33	M119 Modifications	A		12,678				12,678	U
34	Mortar Modification	A		3,998				3,998	U
35	Modifications Less Than \$5.0m (WOCV-WTCV)			2,219				2,219	U
Support Equipment & Facilities									
36	Items Less Than \$5.0m (WOCV-WTCV)			5,075				5,075	U
37	Production Base Support (WOCV-WTCV)			992				992	U
38	Industrial Preparedness								U
39	Small Arms Equipment (Soldier Enh Prog)			1,573				1,573	U
40	Closed Account Adjustments								U
Total Weapons and Other Combat Vehicles				207,367				207,367	
Budget Activity 20: Undistributed									
Undistributed									
41	Adj to Match Continuing Resolution	A							U
Total Undistributed									
Total Procurement of W&TCV, Army				2,423,608		1,191,139		3,614,747	

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 3, 2017 at 07:27:52

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10	01	20	GZ3250	Assault Bridge (Mod).....	99
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18	02	10	G13000	M240 Medium Machine Gun (7.62mm).....	142
19	02	10	G13101	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM.....	144
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30	02	20	GZ1290	M249 SAW Machine Gun MODS.....	191
31	02	20	GZ1300	M240 Medium Machine Gun MODS.....	193
32	02	20	GZ1500	Sniper Rifles Modifications.....	195

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35	02	20	GC0925	Modifications Less Than \$5.0m (WOCV-WTCV).....	200
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38	02	30	GC0075	Industrial Preparedness.....	203
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CLOSED ACCOUNT ADJUSTMENTS	GC9500	40	02	30.....	205
COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	G01507	22	02	10.....	150
Carbine	G13501	23	02	10.....	152
Common Remotely Operated Weapons Station	G04700	24	02	10.....	164
Handgun	G15325	25	02	10.....	165
Improved Recovery Vehicle (M88A2 HERCULES)	GA0570	9	01	20.....	89
Industrial Preparedness	GC0075	38	02	30.....	203
Integrated Air Burst Weapon System Family	G16101	17	02	10.....	141
Items Less Than \$5.0m (WOCV-WTCV)	GL3200	36	02	30.....	201
Joint Assault Bridge	GZ3001	13	01	20.....	108
M1 Abrams Tank (MOD)	GA0700	14	01	20.....	117

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
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M119 Modifications	GC0401	33	02	20.....	197
M2 50 Cal Machine Gun MODS	GB4000	29	02	20.....	180
M240 Medium Machine Gun (7.62mm)	G13000	18	02	10.....	142
M240 Medium Machine Gun MODS	GZ1300	31	02	20.....	193
M249 SAW Machine Gun MODS	GZ1290	30	02	20.....	191
M4 Carbine Mods	GB3007	28	02	20.....	171
M777 Mods	GZ1700	27	02	20.....	169
M88 FOV MODS	G80571	12	01	20.....	107
MK-19 Grenade Machine Gun MODS	GB3000	26	02	20.....	167
MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	G13101	19	02	10.....	144
Modifications Less Than \$5.0m (WOCV-WTCV)	GC0925	35	02	20.....	200
Mortar Modification	G02100	34	02	20.....	199
Mortar Systems	G02200	20	02	10.....	145
Paladin Integrated Management (PIM)	GZ0410	8	01	20.....	79
Production Base Support (TCV-WTCV)	GA0050	16	01	30.....	140
Production Base Support (WOCV-WTCV)	GC0050	37	02	30.....	202
Small Arms Equipment (Soldier Enh Prog)	GC0076	39	02	30.....	204
Sniper Rifles Modifications	GZ1500	32	02	20.....	195
Stryker (Mod)	GM0100	4	01	20.....	19

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
Stryker Upgrade	G85200	5	01	20.....	39
Stryker Vehicle	G85100	3	01	10.....	17
XM320 Grenade Launcher Module (GLM)	G01501	21	02	10.....	148

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: Tracked Combat Vehicles	P-1 Line Item Number / Title: G80718 / BRADLEY PROGRAM
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203735A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	60	60	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	200.000	200.000	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	200.000	200.000	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	200.000	200.000	-	-	-	-	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	3,333.333	3,333.333	-	-	-	-	Continuing	Continuing

Description:

The Bradley Program upgrades the existing Bradley M2A2 ODS - Situational Awareness (ODS-SA)/M7A3 vehicle to the Bradley M2A4/M7A4 configuration to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative (ERI). Improvements to the Bradley M2A2 ODS-SA vehicle include increasing lethality by installing a Commander's Independent Viewer (CIV) providing a hunter-killer capability to the Bradley Gunner and Vehicle Commander, increasing survivability by incorporating improved suspension and track components, increasing mobility by integrating an upgraded engine and transmission improving vehicle acceleration, top speed, and braking capacity, and increasing vehicle electrical power generation and distribution by improving the system architecture and generation capabilities. Current projections indicate that the M2/M7A4 Bradley Fighting Vehicle will be critical for the ABCT formation until FY 2050.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	60	60	-	-	-	-
Total Obligation Authority	-	-	-	200.000	200.000	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	60	60	-	-	-	-
Total Obligation Authority	-	-	-	200.000	200.000	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: Tracked Combat Vehicles **P-1 Line Item Number / Title:** G80718 / BRADLEY PROGRAM

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	G80723 / Bradley Program (M2A4)	P-5a, P-21			- / -	- / -	- / -	- / -	60 / 200.000	60 / 200.000
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / -	60 / 200.000	60 / 200.000

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

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

Justification:
 FY 2018 OCO Procurement funding in the amount of \$200,000 million funds the upgrade of sixty (60) M2A2 ODS-SA/M7A3 vehicle to the M2A4/M7A4 configuration to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative (ERI). Funding supports all aspects of the vehicle upgrade program as well as all of the Government and Contractor System Engineering/Program Management required for management of the program. Support the Active Army.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: G80718 / BRADLEY PROGRAM	Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	60	60
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	200.000	200.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	200.000	200.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	200.000	200.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	3,333.333	3,333.333

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Manufacturing ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	1,767.183	60	106.031	1,767.183	60	106.031
TPF (ASL, BII, OPNET, FMNET)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.858	-	-	11.858
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>117.889</i>	-	-	<i>117.889</i>
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>117.889</i>	-	-	<i>117.889</i>
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73.670	-	-	73.670
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>73.670</i>	-	-	<i>73.670</i>
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.911	-	-	6.911
Contractor Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.530	-	-	1.530
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>8.441</i>	-	-	<i>8.441</i>
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	3,333.333	60	200.000	3,333.333	60	200.000

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Exhibit P-5, Cost Analysis: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: G80718 / BRADLEY PROGRAM	Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)
--	--	--

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Army	Quantity	-	-	-	60	60
	Total Obligation Authority	-	-	-	200.000	200.000
Total:	Quantity	-	-	-	60	60
Secondary Distribution	Total Obligation Authority	-	-	-	200.000	200.000

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: G80718 / BRADLEY PROGRAM	Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)
--	--	--

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Manufacturing ^(†)	✓	2018	BAE / York, PA	SS / FPIF	TACOM, Warren, MI	May 2018	Jan 2020	60	1,767.180	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: FY 2018 Army **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10 **P-1 Line Item Number / Title:** G80718 / BRADLEY PROGRAM **Item Number / Title [DODIC]:** G80723 / Bradley Program (M2A4)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Manufacturing																															
✓	1	2018	ARMY	60	0	60	-	-	-	17	17	17	9																0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: FY 2018 Army									Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10					P-1 Line Item Number / Title: G80718 / BRADLEY PROGRAM					Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	BAE - York, PA	1	5	17	0	8	20	28	0	1	17	18	

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

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date: May 2017**

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

P-1 Line Item Number / Title:
G80819 / Armored Multi Purpose Vehicle (AMPV)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605028A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	42	65	107	107	130	139	139	2,275	2,897
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	193.715	253.903	447.618	397.355	495.713	569.216	572.400	10,388.698	12,871.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	193.715	253.903	447.618	397.355	495.713	569.216	572.400	10,388.698	12,871.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	193.715	253.903	447.618	397.355	495.713	569.216	572.400	10,388.698	12,871.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	4,612.262	3,906.200	4,183.346	3,713.598	3,813.177	4,095.079	4,117.986	4,566.461	4,442.872

Description:

The Armored Multi-Purpose Vehicle (AMPV) is the materiel solution for replacement of the Army's Armored Personnel Carrier (M113) Family of Vehicles (FoV) within the Armored Brigade Combat Team (ABCT). It will mitigate current and future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict. The AMPV will replace five mission roles currently performed by the M113 FoV by transferring the current M113 Mission Equipment Packages (MEP) to a new Military Vehicle Derivative (MVD) platform. In total, the AMPV FOV will account for approximately 30% of the ABCT's tracked fleet and consists of the following five variants:

1. Mission Command (MCmd) Vehicle: This platform enables effective mission command planning and execution for both the Tactical Operations Center (TOC) and Tactical Command Vehicle (TAC) versions of the MCmd. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.
2. Medical Treatment (MT) Vehicle: This platform will provide a protected surgical environment, with adequate lighting and accessible medical equipment. It will provide a capability for immediate medical care for one patient by a medical crew of four.
3. Medical Evacuation (ME) Vehicle: This platform will conduct ambulance type activities and provide casualty evacuation for up to four litter or six ambulatory patients, with a crew of three medical attendants.
4. General Purpose (GP) Vehicle: This platform will operate throughout the battle space by conducting re-supply, maintenance, casualty evacuation, and other tasks within the formation.
5. Mortar Carrier (MC) Vehicle: This platform will provide immediate responsive fire support to conduct fast-paced offensive operations.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	42	65	107	107	130	139	139
	Total Obligation Authority	-	-	193.715	253.903	447.618	397.355	495.713	569.216	572.400
Total: Secondary Distribution	Quantity	-	-	42	65	107	107	130	139	139
	Total Obligation Authority	-	-	193.715	253.903	447.618	397.355	495.713	569.216	572.400

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

P-1 Line Item Number / Title:
G80819 / Armored Multi Purpose Vehicle (AMPV)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605028A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G80819 / Armored Multi Purpose Vehicle (AMPV)	P-5a, P-21		471	- / -	- / -	- / -	42 / 193.715	65 / 253.903	107 / 447.618
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	42 / 193.715	65 / 253.903	107 / 447.618

*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:

FY2018 Base Procurement dollars in the amount of \$193.715 million procures 42 Armored Multi-Purpose Vehicles (AMPVs). This represents the first year of Low Rate Initial Production (LRIP-1). In total, the first LRIP base contract covers 52 vehicles, 10 of which will be funded by Research, Development, Test, and Evaluation (RDT&E – Program Element 0605028A) to support Full-Up System Level (FUSL) live fire testing. The FY2018 base procurement dollars cover the remaining 42 vehicles in LRIP-1. In accordance with the Full Funding Policy, the entire procurement cost of the LRIP-1 assets is being budgeted in the fiscal year in which long lead time items are initially procured. Accordingly, the FY2018 procurement cost covers all contractor efforts related to recurring production and production support, government efforts related to award of the LRIP-1 contract, and testing/training/fielding support related to the 42 LRIP-1 vehicles. Since the 42 LRIP-1 vehicles will be utilized for Initial Operational Test and Evaluation, much of the training and fielding type efforts are covered by the aforementioned RDT&E Program Element. AMPV is a new start in FY 2018.

FY2018 OCO procurement dollars in the amount of \$253.903 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support European Reassurance Initiative (ERI). Funding will procure 65 AMPVs platforms, select Mission Equipment Packages, associated training and fielding support, and additional oversight/testing efforts not required for the base program.

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): 2,897 vehicles.

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: G80819 / Armored Multi Purpose Vehicle (AMPV)	Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 471

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	42	65	107
Gross/Weapon System Cost (\$ in Millions)	-	-	-	193.715	253.903	447.618
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	193.715	253.903	447.618
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	193.715	253.903	447.618

(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)	-	-	-	4,612.262	3,906.200	4,183.346

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Vehicle Manufacturing - Contractor ^(†)	-	-	-	-	-	-	-	-	-	3,844.048	42	161.450	3,616.246	65	235.056	3,705.664	107	396.506
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	4.912	-	-	4.107	-	-	9.019
Sys Eng / Prog Mgmt (Government)	-	-	-	-	-	-	-	-	-	-	-	1.335	-	-	1.335	-	-	2.670
Sys Test & Evaluation (Government)	-	-	-	-	-	-	-	-	-	-	-	2.205	-	-	1.000	-	-	3.205
Training Devices	-	-	-	-	-	-	-	-	-	-	-	1.092	-	-	1.092	-	-	2.184
Total Package Fielding (TPF)	-	-	-	-	-	-	-	-	-	-	-	4.579	-	-	11.313	-	-	15.892
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	175.573	-	-	253.903	-	-	429.476
Non Recurring Cost																		
Production Facilitization	-	-	-	-	-	-	-	-	-	-	-	18.142	-	-	-	-	-	18.142
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	18.142	-	-	-	-	-	18.142
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	-	-	-	193.715	-	-	253.903	-	-	447.618
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	4,612.262	42	193.715	3,906.200	65	253.903	4,183.346	107	447.618

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: G80819 / Armored Multi Purpose Vehicle (AMPV)	Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 471

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Army	Quantity	-	-	42	65	107
	Total Obligation Authority	-	-	193.715	253.903	447.618
Total: Secondary Distribution	Quantity	-	-	42	65	107
	Total Obligation Authority	-	-	193.715	253.903	447.618

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10			P-1 Line Item Number / Title: G80819 / Armored Multi Purpose Vehicle (AMPV)				Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Vehicle Manufacturing - Contractor ^(†)		2018	BAE / York, PA	Option / FPIF	Warren, MI	Apr 2018	Aug 2019	42	3,844.050	N		
Vehicle Manufacturing - Contractor ^(†)		2018	BAE / York, PA - OCO	C / FPIF	Warren, MI	Apr 2018	May 2019	65	3,616.250	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: FY 2018 Army															Date: May 2017														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10										P-1 Line Item Number / Title: G80819 / Armored Multi Purpose Vehicle (AMPV)										Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020										Fiscal Year 2021										BALANCE				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G
Vehicle Manufacturing - Contractor																														
	1	2018	ARMY	42	8	34	4	4	4	4	4	4	4	4	4	4	2													0
	2	2018	ARMY	65	16	49	5	6	5	8	8	8	9																	0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10		P-1 Line Item Number / Title: G80819 / Armored Multi Purpose Vehicle (AMPV)
		Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BAE - York, PA	15	37	58	0	7	16	23	0	0	0	0
2	BAE - York, PA - OCO	15	37	58	0	7	13	20	0	0	0	0

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

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	14,977.899	175.474	71.680	-	-	-	-	-	-	-	-	15,225.053
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14,977.899	175.474	71.680	-	-	-	-	-	-	-	-	15,225.053
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14,977.899	175.474	71.680	-	-	-	-	-	-	-	-	15,225.053

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

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

Description:

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

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

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

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

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

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

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

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

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

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

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

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

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

Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	175.474	71.680	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	175.474	71.680	-	-	-	-	-	-	-

Justification:
 FY 2018 Base procurement dollars are in the amount of \$.000 millions.

DVH exchange vehicles procured in FY 2016 and prior did not increase the Stryker Family of Vehicles Army Acquisition Objective (AAO) of 3,788.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0273735A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	247.461	388.385	82.681	97.552	-	97.552	384.523	510.992	602.161	602.357	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	247.461	388.385	82.681	97.552	-	97.552	384.523	510.992	602.161	602.357	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	247.461	388.385	82.681	97.552	-	97.552	384.523	510.992	602.161	602.357	Continuing	Continuing

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

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

Description:

Modifications to the Stryker Family of Vehicles (FOV) to resolve reliability, lethality, safety, operational, performance degradation, and chemical detection and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) obsolescence issues. Primary efforts involve the incorporation of a 30mm-equipped weapon system onto the Stryker Infantry Carrier Vehicle (ICV), application of Engineering Change Proposal 1 (ECP 1) engine, alternator, suspension, and in-vehicle network upgrades into the Stryker Double "V" Hull (DVH) fleet, and the retrofit of ECP 2 lethality upgrades to enhance the suppressive fire and armored vehicle engagement capabilities of the Army's Stryker Brigade Combat Teams (SBCTs).

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0273735A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GM0100 / STRYKER MODIFICATION (Increase Performance)				- / 247.461	- / 388.385	- / 82.681	- / 97.552	- / -	- / 97.552
P-40	Total Gross/Weapon System Cost				- / 247.461	- / 388.385	- / 82.681	- / 97.552	- / -	- / 97.552

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GM0100 / STRYKER MODIFICATION (Increase Performance)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 384.523	- / 510.992	- / 602.161	- / 602.357	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 2018 Base procurement dollars in the amount \$97.552 million supports the application of multiple fleet-wide modifications to address Stryker chemical detection and Command, Control, Communications, Computers, Intelligence (C4I) obsolescence; resolves 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 procured modification kits are applied in an efficient and effective fashion; designs, modifies, and procures Stryker Training Aids, Devices, Simulators, and Simulations (TADSS) to ensure Stryker soldiers train with equipment that reflects the configuration and behavior of the current fielded vehicles; and provides for the fielding of a 30mm weapon system to address a March 2015 United States Army Europe (USAREUR) Urgent Operational Needs Statement (ONS), and other activities supporting ECP2 Lethality across the Stryker Family of Vehicles. Support the Active Army.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	MDAP/MAIS Code:	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)	247.461	388.385	82.681	97.552	-	97.552	-	-	-	-	-	-		
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P-1) (<i>\$ in Millions</i>)	247.461	388.385	82.681	97.552	-	97.552	-	-	-	-	-	-		
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (<i>\$ in Millions</i>)	247.461	388.385	82.681	97.552	-	97.552	-	-	-	-	-	-		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>														
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-		

Description:

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 modifications include: Joint Chemical Agent Detector (JCAD), 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, troop heater improvements, Short Range Air Defense, and refresh of the Fire Support Vehicle (FSV) Mission Equipment package (MEP). Modifications will be conducted 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 Family of Vehicles (FoV). Efforts include Mid-Tier Networking Vehicular Radio (MNVR), enhanced Vehicular Intercom System (VIC-5), Blue-Force Tracking 2 (BFT-2), Warfighter Information Network-Tactical (WIN-T) re-stowage, improved embedded training, Universal Software Loader (USL), and the Stryker In-Vehicle Network 2 (IVN2).

Test Fleet Maintenance: Maintains the Stryker test fleet, to include contractor repair labor and operation of Stryker repair parts warehouses 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.

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>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 (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.</p> <p>Engineering Change Proposal 1 (ECP 1): (FY 2019 Start) 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.</p> <p>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).</p> <p>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 by field modification teams at unit location, subject to vehicle/hardware availability.</p> <p>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).</p> <p>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 ECP2 .</p>		

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Exhibit P-3a, Individual Modification: FY 2018 Army										Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
Procurement														
Modification Item 1 of 12: Mobile Gun System (MGS) Full Materiel Release(FMR)														
A Kits														
Recurring														
Hardware	712 / 38.310	139 / 3.068	119 / 2.268	139 / 0.960	0 / 0.000	139 / 0.960	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Recurring	- / 38.310	- / 3.068	- / 2.268	- / 0.960	- / 0.000	- / 0.960	- / -	- / -	- / -	- / -	- / -	- / -		
Non-Recurring														
Fielding	0 / 0.585	0 / 8.688	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Engineer Support	0 / 9.706	0 / 1.618	0 / 0.500	0 / 0.964	0 / 0.000	0 / 0.964	- / -	- / -	- / -	- / -	- / -	- / -		
Test	0 / 1.896	0 / 1.248	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Non-Recurring	- / 12.187	- / 11.554	- / 0.500	- / 0.964	- / 0.000	- / 0.964	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Mobile Gun System (MGS) Full Materiel Release(FMR)	712 / 50.497	139 / 14.622	119 / 2.768	139 / 1.924	0 / 0.000	139 / 1.924	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 2 of 12: Fleet Modifications														
A Kits														
Recurring														
Fielding	0 / 0.867	0 / 0.038	0 / 0.270	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Hardware	2,962 / 35.073	280 / 7.404	1,271 / 9.493	155 / 3.675	0 / 0.000	155 / 3.675	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Recurring	- / 35.940	- / 7.442	- / 9.763	- / 3.675	- / 0.000	- / 3.675	- / -	- / -	- / -	- / -	- / -	- / -		
Non-Recurring														
Engineer Support	0 / 14.733	0 / 12.021	0 / 0.820	0 / 7.859	0 / 0.000	0 / 7.859	- / -	- / -	- / -	- / -	- / -	- / -		
Test	0 / 5.051	0 / 6.957	0 / 0.000	0 / 0.650	0 / 0.000	0 / 0.650	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Non-Recurring	- / 19.784	- / 18.978	- / 0.820	- / 8.509	- / 0.000	- / 8.509	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Fleet Modifications	2,962 / 55.724	280 / 26.420	1,271 / 10.583	155 / 12.184	0 / 0.000	155 / 12.184	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 3 of 12: Video Display Electronic Terminal (VDET)														
A Kits														
Recurring														
Hardware	664 / 19.521	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Recurring	- / 19.521	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Non-Recurring														
Engineer Support	0 / 0.043	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		

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Exhibit P-3a, Individual Modification: FY 2018 Army										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
Test	0 / 0.136	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Non-Recurring</i>	- / 0.179	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Video Display Electronic Terminal (VDET)</i>	664 / 19.700	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 4 of 12: C4I Obsolescence and Next Generation Items													
A Kits													
Recurring													
Hardware	243 / 11.442	0 / 0.790	789 / 5.154	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 11.442	- / 0.790	- / 5.154	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Non-Recurring													
Engineer Support	0 / 13.237	0 / 4.512	0 / 4.504	0 / 5.845	0 / 0.000	0 / 5.845	- / -	- / -	- / -	- / -	- / -	- / -	
Test	0 / 0.189	0 / 0.000	0 / 0.000	0 / 0.468	0 / 0.000	0 / 0.468	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Non-Recurring</i>	- / 13.426	- / 4.512	- / 4.504	- / 6.313	- / 0.000	- / 6.313	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: C4I Obsolescence and Next Generation Items</i>	243 / 24.868	0 / 5.302	789 / 9.658	0 / 6.313	0 / 0.000	0 / 6.313	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 5 of 12: Block Mod Retrofit													
A Kits													
Recurring													
Hardware	2,336 / 34.697	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 34.697	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Block Mod Retrofit</i>	2,336 / 34.697	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 6 of 12: Test Fleet Maintenance													
A Kits													
Recurring													
Labor (Contractor)	0 / 13.706	0 / 6.185	0 / 6.141	0 / 7.009	0 / 0.000	0 / 7.009	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 13.706	- / 6.185	- / 6.141	- / 7.009	- / 0.000	- / 7.009	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Test Fleet Maintenance</i>	0 / 13.706	0 / 6.185	0 / 6.141	0 / 7.009	0 / 0.000	0 / 7.009	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 7 of 12: Retrofit Planning and Site Management													
A Kits													
Recurring													
Labor (Contractor)	0 / 14.528	0 / 6.131	0 / 7.143	0 / 7.753	0 / 0.000	0 / 7.753	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 14.528	- / 6.131	- / 7.143	- / 7.753	- / 0.000	- / 7.753	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: FY 2018 Army										Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
<i>Subtotal: Retrofit Planning and Site Management</i>	0 / 14.528	0 / 6.131	0 / 7.143	0 / 7.753	0 / 0.000	0 / 7.753	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 8 of 12: Training Aids, Devices, Simulators and Simulations														
A Kits														
Recurring														
Hardware	0 / 0.000	0 / 0.000	2 / 13.704	18 / 24.389	0 / 0.000	18 / 24.389	- / -	- / -	- / -	- / -	- / -	- / -		
Life Cycle Management Plan	0 / 14.845	0 / 9.804	0 / 7.642	0 / 7.651	0 / 0.000	0 / 7.651	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 14.845	- / 9.804	- / 21.346	- / 32.040	- / 0.000	- / 32.040	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Training Aids, Devices, Simulators and Simulations</i>	0 / 14.845	0 / 9.804	2 / 21.346	18 / 32.040	0 / 0.000	18 / 32.040	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 9 of 12: Engineering Change Proposal 2 (ECP 2)														
A Kits														
Non-Recurring														
Facilitization	0 / 0.000	0 / 0.000	0 / 0.000	0 / 4.200	0 / 0.000	0 / 4.200	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / 0.000	- / 0.000	- / 4.200	- / 0.000	- / 4.200	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Engineering Change Proposal 2 (ECP 2)</i>	0 / 0.000	0 / 0.000	0 / 0.000	0 / 4.200	0 / 0.000	0 / 4.200	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 10 of 12: Double V Hull (DVH) Survivability and Safety Mods														
A Kits														
Recurring														
Hardware	1,224 / 11.716	0 / 0.105	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 11.716	- / 0.105	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Non-Recurring														
Labor (Engineering Support)	0 / 0.230	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Non-Recurring</i>	- / 0.230	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Double V Hull (DVH) Survivability and Safety Mods</i>	1,224 / 11.946	0 / 0.105	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 11 of 12: Operational Needs Statement (ONS) Lethality														
A Kits														
Recurring														
Fielding	0 / 0.000	0 / 29.007	0 / 16.150	0 / 18.937	0 / 0.000	0 / 18.937	- / -	- / -	- / -	- / -	- / -	- / -		

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Exhibit P-3a, Individual Modification: FY 2018 Army											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GM0100 / Stryker (Mod)				Modification Number / Title: GM0100 / STRYKER MODIFICATION				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: VARIOUS			Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Hardware	0 / 0.000	83 / 286.366	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.000	- / 315.373	- / 16.150	- / 18.937	- / 0.000	- / 18.937	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Operational Needs Statement (ONS) Lethality</i>	0 / 0.000	83 / 315.373	0 / 16.150	0 / 18.937	0 / 0.000	0 / 18.937	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 12 of 12: Program Management Support												
A Kits												
Recurring												
Program Management Support	0 / 6.950	0 / 4.443	0 / 8.892	0 / 7.192	0 / 0.000	0 / 7.192	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 6.950	- / 4.443	- / 8.892	- / 7.192	- / 0.000	- / 7.192	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Program Management Support</i>	0 / 6.950	0 / 4.443	0 / 8.892	0 / 7.192	0 / 0.000	0 / 7.192	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	8,141 / 247.461	502 / 388.385	2,181 / 82.681	312 / 97.552	0 / 0.000	312 / 97.552	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 12: Mobile Gun System (MGS) Full Materiel Release(FMR)	712 / 0.000	139 / 0.000	119 / 0.000	139 / 0.000	- / -	139 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 12: Fleet Modifications	2,962 / 0.000	280 / 0.000	1,271 / 0.000	155 / 0.000	- / -	155 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 4 of 12: C4I Obsolescence and Next Generation Items	243 / 0.000	0 / 0.000	789 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 11 of 12: Operational Needs Statement (ONS) Lethality	0 / 0.000	0 / 0.000	16 / 0.000	67 / 0.000	- / -	67 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	3,917 / 0.000	419 / 0.000	2,195 / 0.000	361 / 0.000	- / -	361 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	247.461	388.385	82.681	97.552	-	97.552	-	-	-	-	-	-

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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 12: Mobile Gun System (MGS) Full Materiel Release(FMR)

Manufacturer Information

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

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Feb 2016	Feb 2017	Feb 2018				
Delivery Dates	May 2016	May 2017	May 2018				

Installation Information

Method of Implementation: Installs conducted by Contractor retrofit team.

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	712 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	139 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	119 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	139 / 0.000	- / -	139 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	712 / 0.000	139 / 0.000	119 / 0.000	139 / 0.000	- / -	139 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	712	0	139	0	0	0	119	0	0	0	139	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Out	712	0	0	69	70	59	60	0	0	0	0	70	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 12: Fleet Modifications

Manufacturer Information

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

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

Installation Information

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

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	2,962 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	280 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	1,271 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	155 / 0.000	- / -	155 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	2,962 / 0.000	280 / 0.000	1,271 / 0.000	155 / 0.000	- / -	155 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2,962	0	280	0	0	0	1,271	0	0	155	0	0	0	155	0	0	0	123	0	0	0	123	0	0	0	155	0	0	0	0	5,224
Out	2,962	0	0	140	140	0	0	635	636	0	51	52	52	0	51	52	52	0	41	41	41	0	41	41	41	0	51	52	52	0	5,224

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 3 of 12: Video Display Electronic Terminal (VDET)							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Combination of Army Depot personnel and contractors at a government facility.					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 4 of 12: C4I Obsolescence and Next Generation Items

Manufacturer Information

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

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

Installation Information

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

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	243 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	789 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	243 / 0.000	0 / 0.000	789 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	243	0	0	0	0	0	789	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Out	243	0	0	0	0	0	0	394	395	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 5 of 12: Block Mod Retrofit							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C.				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Combination of Army Depot personnel and contractors at a government facility.					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GM0100 / Stryker (Mod)		Modification Number / Title: GM0100 / STRYKER MODIFICATION		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 6 of 12: Test Fleet Maintenance							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2016	Jan 2017	Jan 2018				
Delivery Dates	Jan 2016	Jan 2017	Jan 2018				
Installation Information							
Method of Implementation (Organic): Maintenance is provided by contractor at government test sites.					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GM0100 / Stryker (Mod)		Modification Number / Title: GM0100 / STRYKER MODIFICATION		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 7 of 12: Retrofit Planning and Site Management							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Feb 2016	Feb 2017	Feb 2018				
Delivery Dates	Feb 2016	Feb 2017	Feb 2018				
Installation Information							
Method of Implementation (Organic): Prime Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 8 of 12: Training Aids, Devices, Simulators and Simulations							
Manufacturer Information							
Manufacturer Name: Rockwell Collins Simulation & Training				Manufacturer Location: Cedar Rapids, Iowa			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 7			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2016	Jan 2017	Jan 2018				
Delivery Dates	Aug 2016	Aug 2017	Aug 2018				
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 9 of 12: Engineering Change Proposal 2 (ECP 2)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Dec 2017				
Delivery Dates			Sep 2018				
Installation Information							
Method of Implementation (Organic): Contractor and depot team						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 10 of 12: Double V Hull (DVH) Survivability and Safety Mods							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C.				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 4			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2016						
Delivery Dates	May 2016						
Installation Information							
Method of Implementation (Organic): Prime Contractor					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 11 of 12: Operational Needs Statement (ONS) Lethality

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C.	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 16

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	May 2016						
Delivery Dates	Jul 2017						

Installation Information

Method of Implementation: Prime Contactor

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	16 / 0.000	67 / 0.000	- / -	67 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	16 / 0.000	67 / 0.000	- / -	67 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	0	0	83	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Out	-	0	0	0	0	0	0	0	16	22	22	23	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GM0100 / Stryker (Mod)		Modification Number / Title: GM0100 / STRYKER MODIFICATION		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 12 of 12: Program Management Support							
Manufacturer Information							
Manufacturer Name: PM SBCT and GM GDLS Defense Group, L.L.C.				Manufacturer Location: Warren and Sterling Heights, Michigan			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Dec 2015	Dec 2016	Dec 2017				
Delivery Dates	Dec 2015	Dec 2016	Dec 2017				
Installation Information							
Method of Implementation (Organic): Government and contractor personnel					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	136	123	-	-	-	-	-	-	-	-	259
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	412.043	444.561	-	-	-	-	-	-	-	-	856.604
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	412.043	444.561	-	-	-	-	-	-	-	-	856.604
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	412.043	444.561	-	-	-	-	-	-	-	-	856.604

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	3,029.728	3,614.317	-	-	-	-	-	-	-	-	3,307.351

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 (ECP1) 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 had a successful production decision in Aug 2016. ECP1 vehicle changes will be incorporated into the build of DVH-equipped Stryker vehicles using the exchange process. The Stryker Brigade Combat Team (SBCT), equipped with ECP1 DVH vehicles, can be used across the full spectrum of military operations. The SBCT deploys rapidly and conducts effective combat operations immediately on arrival to prevent, contain, stabilize, or resolve a conflict through shaping and decisive operations. Configurations of Stryker ECP1 DVH vehicles are:

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

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	136	123	-	-	-	-	-	-	-
	Total Obligation Authority	412.043	444.561	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	136	123	-	-	-	-	-	-	-
	Total Obligation Authority	412.043	444.561	-	-	-	-	-	-	-

Justification:

FY 2018 Base procurement dollars in the amount of \$.000 millions.

DVH w/ECP 1 vehicle quantities do not increase the Stryker Family of Vehicles (FoV) Army Acquisition Objective (AAO) of 3,788 systems.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,907.915	210.042	490.033	444.851	30.000	474.851	333.000	403.872	417.000	431.946	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,907.915	210.042	490.033	444.851	30.000	474.851	333.000	403.872	417.000	431.946	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,907.915	210.042	490.033	444.851	30.000	474.851	333.000	403.872	417.000	431.946	Continuing	Continuing

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

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

Description:

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 improved shocks, roadarms, torsion bars and extended life track. ECP2 improves the power train and electrical system to enable the Bradley Vehicle 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, upgrades to the transmission, including but not limited to high priority improvements, survivability enhancements and obsolescence mitigation.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	210.042	490.033	444.851	30.000	474.851	313.000	383.872	417.000	431.946
ANG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	-	-	-	20.000	20.000	-	-
Total:	-	-	-	-	-	-	-	-	-
Secondary Distribution	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	210.042	490.033	444.851	30.000	474.851	333.000	403.872	417.000	431.946

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GZ2400 / Bradley Program MOD (Increase Performance)				- / 4,907.915	- / 210.042	- / 490.033	- / 444.851	- / 30.000	- / 474.851
P-40	Total Gross/Weapon System Cost				- / 4,907.915	- / 210.042	- / 490.033	- / 444.851	- / 30.000	- / 474.851

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GZ2400 / Bradley Program MOD (Increase Performance)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 333.000	- / 403.872	- / 417.000	- / 431.946	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 2018 Base procurement dollars in the amount of \$444,851 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 (TADSS), program/engineering support, and including but not limited to survivability enhancements. Current projections indicate that the Bradley Infantry Fighting Vehicle will likely remain in the ABCT formation until the 2050s.

FY 2018 OCO Procurement dollars in the amount of \$30,000 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the ERI. Funding will support the procurement of 35 Active Protection System (APS) for the Bradley Infantry Fighting Vehicles.

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

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4,907.915	210.042	490.033	444.851	30.000	474.851	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4,907.915	210.042	490.033	444.851	30.000	474.851	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4,907.915	210.042	490.033	444.851	30.000	474.851	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

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 improved shocks, roadarms, torsion bars and extended life track. ECP2 improves the power train and electrical system to enable the Bradley Vehicle fleet to host inbound technologies from Army Program of Records (i.e. HMS, JBC-P). Funds training device obsolescence mitigation; 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) - Provides funding for the components, application, and engineering support of improvements designed to resolve problems identified in the field, improve safety, integrate new equipment, and bring the vehicles into compliance with towing and tie down requirements. Provides funding to update software versions and update integrated logistics products while in production.

MOD 3 (Training Equipment Devices) - Provides funding for personnel sustainment support and delivery of BFV Training Aids, Devices, Simulators and Simulations (TADSS). Funding supports ongoing effort to replace the 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 upgraded fleet configuration/capabilities. TADSS include Maintenance Trainers, Gunnery Trainer Tech Refresh, Desktop Trainer Lesson modifications, and Bradley Common Software Library modifications. 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 Bradley 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, applications and engineering support related to modifications to the entire Bradley A3 Fighting Vehicle fleet. ECP2 improves the power train and electrical system to enable the current fleet to host inbound technologies from Army Programs of Record (i.e. HMS, JBC-P). Costs associated with kit installations are included in the funding for the prime hardware contracts.

MOD 10 (Survivability Enhancements) - Provides funding for procurement and fielding of Survivability Enhancements to include Active Protective Systems (APS) and associated counter measures in support of the European Reassurance Initiative (ERI).

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Exhibit P-3a, Individual Modification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	210.042	490.033	444.851	30.000	474.851	-	-	-	-
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	210.042	490.033	444.851	30.000	474.851	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Army											Date: May 2017	
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: M2 & M3 Bradley Vehicle Variants			Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 11: Other (RAA)												
A Kits												
Recurring												
Other Supplemental	0 / 0.000	0 / 0.000	86 / 213.600	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 0.000	- / 0.000	- / 213.600	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Other (RAA)	0 / 0.000	0 / 0.000	86 / 213.600	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 11: Bradley Reactive Armor												
A Kits												
Recurring												
Kit Quantity	2,676 / 765.100	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 765.100	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Bradley Reactive Armor	2,676 / 765.100	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 3 of 11: BFVS High Priority Improvements												
A Kits												
Recurring												
CMED Driver Vision Upgrade	617 / 85.500	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Reset Mods	756 / 10.500	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
INU/Talon	271 / 5.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Heat Abatement/Cargo Hatch	2,764 / 2.870	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
High Priority Mods	0 / 95.408	0 / 45.131	0 / 44.238	0 / 60.770	0 / 0.000	0 / 60.770	- / -	- / -	- / -	- / -	- / -	- / -
Urban Survivability Mods	5,276 / 2,099.004	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 2,298.282	- / 45.131	- / 44.238	- / 60.770	- / 0.000	- / 60.770	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: BFVS High Priority Improvements	9,684 / 2,298.282	0 / 45.131	0 / 44.238	0 / 60.770	0 / 0.000	0 / 60.770	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 4 of 11: Training Equipment Devices												
A Kits												
Recurring												
Training Equipment	0 / 64.811	0 / 54.341	0 / 1.541	0 / 6.066	0 / 0.000	0 / 6.066	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 64.811	- / 54.341	- / 1.541	- / 6.066	- / 0.000	- / 6.066	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: FY 2018 Army										Date: May 2017				
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				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: M2 & M3 Bradley Vehicle Variants				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
<i>Subtotal: Training Equipment Devices</i>	0 / 64.811	0 / 54.341	0 / 1.541	0 / 6.066	0 / 0.000	0 / 6.066	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 5 of 11: ODS Situational Awareness														
A Kits														
Recurring														
ODS Situational Awareness	770 / 1,199.553	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
IBAS Refresh	0 / 8.850	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
ODS-SA VEHICLE VERSION IDENTIFICATION	0 / 12.500	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 1,220.903	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: ODS Situational Awareness</i>	770 / 1,220.903	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 6 of 11: Program/Engineering Support														
A Kits														
Recurring														
Government PM support	0 / 108.645	0 / 22.766	0 / 19.676	0 / 20.067	0 / 0.000	0 / 20.067	- / -	- / -	- / -	- / -	- / -	- / -		
Contractor PM Support	0 / 91.004	0 / 18.267	0 / 5.124	0 / 5.226	0 / 0.000	0 / 5.226	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 199.649	- / 41.033	- / 24.800	- / 25.293	- / 0.000	- / 25.293	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Program/Engineering Support</i>	0 / 199.649	0 / 41.033	0 / 24.800	0 / 25.293	0 / 0.000	0 / 25.293	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 7 of 11: ECP 1 Modification/Field Upgrades														
A Kits														
Recurring														
ECP 1 Modification	845 / 117.018	235 / 34.668	345 / 66.319	345 / 67.637	0 / 0.000	345 / 67.637	- / -	- / -	- / -	- / -	- / -	- / -		
Field Conversion M2 Common Stowage	0 / 51.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 168.018	- / 34.668	- / 66.319	- / 67.637	- / 0.000	- / 67.637	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: ECP 1 Modification/Field Upgrades</i>	845 / 168.018	235 / 34.668	345 / 66.319	345 / 67.637	0 / 0.000	345 / 67.637	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 8 of 11: ECP 2 Modification														
A Kits														
Recurring														
ECP 2 Modification	0 / 0.000	0 / 0.000	45 / 139.535	135 / 285.085	0 / 0.000	135 / 285.085	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.000	- / 139.535	- / 285.085	- / 0.000	- / 285.085	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: ECP 2 Modification</i>	0 / 0.000	0 / 0.000	45 / 139.535	135 / 285.085	0 / 0.000	135 / 285.085	- / -	- / -	- / -	- / -	- / -	- / -		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: M2 & M3 Bradley Vehicle Variants	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Modification Item 9 of 11: Conversion to M2												
A Kits												
Recurring												
Conversion M3-M2	139 / 118.740	56 / 13.505	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Fielding	0 / 0.000	0 / 5.942	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	<i>- / 118.740</i>	<i>- / 19.447</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / -</i>					
<i>Subtotal: Conversion to M2</i>	<i>139 / 118.740</i>	<i>56 / 19.447</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>- / -</i>					
Modification Item 10 of 11: Braking Safety/ Transmission Industrial Base												
A Kits												
Recurring												
Transmission	186 / 72.412	80 / 15.422	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	<i>- / 72.412</i>	<i>- / 15.422</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / -</i>					
<i>Subtotal: Braking Safety/Transmission Industrial Base</i>	<i>186 / 72.412</i>	<i>80 / 15.422</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>- / -</i>					
Modification Item 11 of 11: Survivability Enhancements												
B Kits												
Recurring												
Active Protection System	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	35 / 30.000	35 / 30.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 0.000</i>	<i>- / 30.000</i>	<i>- / 30.000</i>	<i>- / -</i>					
<i>Subtotal: Survivability Enhancements</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>0 / 0.000</i>	<i>35 / 30.000</i>	<i>35 / 30.000</i>	<i>- / -</i>					
<i>Subtotal: Procurement, All Modification Items</i>	<i>14,300 / 4,907.915</i>	<i>371 / 210.042</i>	<i>476 / 490.033</i>	<i>480 / 444.851</i>	<i>35 / 30.000</i>	<i>515 / 474.851</i>	<i>- / -</i>					
Installation												
Modification Item 7 of 11: ECP 1 Modification/Field Upgrades	360 / 0.000	275 / 0.000	240 / 0.000	274 / 0.000	0 / 0.000	274 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 8 of 11: ECP 2 Modification	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 9 of 11: Conversion to M2	90 / 0.000	47 / 0.000	42 / 0.000	16 / 0.000	0 / 0.000	16 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 11 of 11: Survivability Enhancements	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	35 / 0.000	35 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	<i>450 / 0.000</i>	<i>322 / 0.000</i>	<i>282 / 0.000</i>	<i>290 / 0.000</i>	<i>35 / 0.000</i>	<i>325 / 0.000</i>	<i>- / -</i>					
Total												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: M2 & M3 Bradley Vehicle Variants	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>											
Total Cost (Procurement + Support + Installation)	4,907.915	210.042	490.033	444.851	30.000	474.851	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 11: Other (RAA)							
Manufacturer Information							
Manufacturer Name: BAE				Manufacturer Location: Other			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jul 2017					
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 2 of 11: Bradley Reactive Armor							
Manufacturer Information							
Manufacturer Name: GDATP				Manufacturer Location: Burlington, VT			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
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		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 3 of 11: BFVS High Priority Improvements							
Manufacturer Information							
Manufacturer Name: BAE				Manufacturer Location: YORK, PA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Mar 2016	Mar 2017	Mar 2018				
Delivery Dates	Mar 2017	Mar 2018	Mar 2019				
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 4 of 11: Training Equipment Devices							
Manufacturer Information							
Manufacturer Name: Oasis				Manufacturer Location: AUBURN HILLS, MI			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Feb 2016	Feb 2017	Feb 2018				
Delivery Dates	Feb 2017	Feb 2018	Feb 2019				
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 5 of 11: ODS Situational Awareness							
Manufacturer Information							
Manufacturer Name: BAE				Manufacturer Location: YORK, PA			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 6 of 11: Program/Engineering Support							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: WARREN, MI			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 1			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Dec 2015	Dec 2016	Dec 2017				
Delivery Dates	Jan 2016	Jan 2017	Jan 2018				
Installation Information							
Method of Implementation (Organic): x						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 7 of 11: ECP 1 Modification/Field Upgrades

Manufacturer Information

Manufacturer Name: Loc Performance Products Inc./Other				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2016	Sep 2017	Sep 2018				
Delivery Dates	Jun 2017	Sep 2018	Oct 2018				

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	360 / 0.000	275 / 0.000	210 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	30 / 0.000	205 / 0.000	0 / 0.000	205 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	69 / 0.000	0 / 0.000	69 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	360 / 0.000	275 / 0.000	240 / 0.000	274 / 0.000	0 / 0.000	274 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot				
		Q1	Q2	Q3	Q4																														
In	845	0	0	235	0	0	0	345	0	0	0	345	0	0	0	345	0	0	0	345	0	0	0	114	0	0	0	0	0	0	0	0	0	148	2,574
Out	360	62	56	85	72	94	87	29	30	67	90	48	69	69	69	97	97	98	98	103	84	84	84	83	69	69	69	35	148	148	148	2,574			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 8 of 11: ECP 2 Modification

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: York, PA
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 17

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jul 2017	Jul 2018				
Delivery Dates		Dec 2018	Feb 2019				

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	0	0	0	0	0	0	45	0	0	0	145	0	0	0	145	0	0	0	135	0	0	0	145	0	0	145	0	0	1,814	2,574
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	15	15	15	16	36	36	36	37	36	36	36	37	33	34	34	34	2,088	2,574

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 9 of 11: Conversion to M2

Manufacturer Information

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

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

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	90 / 0.000	47 / 0.000	2 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	40 / 0.000	16 / 0.000	0 / 0.000	16 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	90 / 0.000	47 / 0.000	42 / 0.000	16 / 0.000	0 / 0.000	16 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4																										
In	139	0	56	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Out	90	18	5	13	11	2	12	16	12	13	3	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 10 of 11: Braking Safety/Transmission Industrial Base							
Manufacturer Information							
Manufacturer Name: L3COM				Manufacturer Location: MUSKEGON, MI			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	May 2016	Jan 2017					
Delivery Dates	May 2017	Jan 2018					
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 11 of 11: Survivability Enhancements

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: Sterling Heights, MI
Administrative Leadtime (in Months): 12	Production Leadtime (in Months): 19

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

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	35 / 0.000	35 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	35 / 0.000	35 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 GA0400 / M109 FOV Modifications

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,956.746	51.129	63.138	64.230	-	64.230	58.049	-	-	0.000	-	2,193.292
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,956.746	51.129	63.138	64.230	-	64.230	58.049	-	-	0.000	-	2,193.292
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,956.746	51.129	63.138	64.230	-	64.230	58.049	-	-	0.000	-	2,193.292

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

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

Description:

The M109 Family of Vehicles (FOV) program consists of the M109A6 Paladin Self-Propelled Howitzer (SPH) and the M992A2 Field Artillery Ammunition Supply Vehicle (FAASV) as well as M109A7 SPH and M992A3 Carrier, Ammunition, Tracked (Vehicle) (CAT). The funding profile supports all aspects of program management necessary to support the field fleet of 568 SPHs and 568 FAASVs/CATs in 21 Active Duty Army and National Guard Battalions organic to Armored Brigade Combat Team (ABCT); 12 Battalions organic to Army Fires Brigades; 2 Institutional Training Sites, 2 Combat Training Centers, and other facility vehicles for System Technical Support (STS) work for development and qualification of proposed engineering changes and technical improvements.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	30.647	36.745	64.230	-	64.230	33.773	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.482	26.393	-	-	-	24.276	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	51.129	63.138	64.230	-	64.230	58.049	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:**
 GA0400 / M109 FOV Modifications

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GA0400 / M109 Family of Vehicles Modification Program (Increase Performance)				- / 1,956.746	- / 51.129	- / 63.138	- / 64.230	- / -	- / 64.230
P-40	Total Gross/Weapon System Cost				- / 1,956.746	- / 51.129	- / 63.138	- / 64.230	- / -	- / 64.230

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GA0400 / M109 Family of Vehicles Modification Program (Increase Performance)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 58.049	- / -	- / -	- / 0.000	- / -	- / 2,193.292

*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 2018 base procurement funding in the amount of \$64.230 million supports M109 Family of Vehicles (FOV) Systems Technical Support (STS), Program Office requirements, and Paladin Breech Reliability fixes. 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 M109 FOV Combat Vehicle Evaluation (CVE) program; provides quality process management of production for M109 FOV Depot Overhaul operations; provides planning and execution for obsolescence of parts, sub-systems and systems; develop and coordinate shrinking supply base mitigation strategies with item managers. The program office works to lower Operation and Sustainment costs and improve unit readiness by analyzing data and determining solutions to solve the field's problem sets. Manages the Systems Technical Support/Sustainment Systems Technical Support (STS/SSTS) contract that provides direct support to the program and the field. Contractor provides the direct engineering support required to integrate modification kits; provides the logistical support to provision, source, and support the field with the material solutions/changes. Contractor also updates/corrects all system technical data, provisioning data, technical manuals, and Interactive-Electronic Technical Manuals (IETMs). Contractor provides emergency field support to the Government as required for essential mission accomplishment.

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,956.746	51.129	63.138	64.230	-	64.230	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,956.746	51.129	63.138	64.230	-	64.230	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,956.746	51.129	63.138	64.230	-	64.230	-	-	-	-	-	-

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

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

Description:

Funding supports modifications to the Paladin/FAASV Stowage capabilities, Training Aids, Devices, Simulators and Simulations-Replacement (TADDS-R0 kits/upgrades, M284 Breech reliability improvement procurement and their issue based on Modular Artillery Charge System (MACS), New Lightweight Bore Evacuators, CREW IIA-Kit Hardware and Program Office Requirements. Cost associated with kit installations are included in the funding for the prime hardware contracts.

M109 FOV Program Office [MOD 1]: Government System Engineering and Program Management support for the M109 FOV 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 M109 FOV Combat Vehicle Evaluation (CVE) program; provides quality process management of production for M109 FOV Depot Overhaul operations; provides planning and execution for obsolescence of parts, sub-systems and systems; develop and coordinate shrinking supply base mitigation strategies with item managers; provides management of Software Support. Manages the Systems Technical Support (STS) 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. This subsystem provides the automated fire control for the M109 FOV gun system. It allows for the completion of the sensor to shooter fires thread during the conduct of a digital fire mission. 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]: Lightweight Bore Evacuator (LWBE) provides decreased weight to aid in maintainability from the previous Advance Bore Evacuator (ABE). The LWBE weighs approximately 100 LBS while the ABE weighs 300 LBS and requires four men to move.

M109 FOV System Technical Support – Contr [MOD 5]: Funding supports contractor engineering efforts required to design and produce material solutions/changes to the M109 FOV 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.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Breech Mod (MACS) [MOD 6]: Paladin Breech reliability fixes, as they pertain to the impacts of MACS propellant on the gun system, is intended to improve the reliability of the current gun systems in fielded Fires Battalions. These fixes improve the firing chain in the breech system when firing High Zone MACS propellant charges in combat and training.

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 vertical and horizontal ammo stowage, Precision Guided Kit (PGK) stowage mod, 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 vertical ammo stowage.

FSCATT Phase III Upgrade [MOD 8]: Training Aids, Devices, Simulators and Simulations (TADSS) supports the upgrade of Fire Support Combined Arms Tactical Trainers (FSCATT). Paladin 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 9]: To complete CREW DUKE v2 A-Kits fielding across the remainder of the M109 Family of Vehicles (FOV) fleet.

M109 FOV MOD [MOD 10]: Established a modernization line for M109 FOV to address obsolescence, safety and emerging technologies to keep fleet current.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	30.647	36.745	64.230	-	64.230	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.482	26.393	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	51.129	63.138	64.230	-	64.230	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications
		Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: M109 Howitzer and M992 FAASV Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											

Procurement

Modification Item 1 of 12: M109 FOV Program Office												
A Kits												
Recurring												
PM Support	0 / 4.762	0 / 1.407	0 / 2.265	0 / 2.298	0 / 0.000	0 / 2.298	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 4.762	- / 1.407	- / 2.265	- / 2.298	- / 0.000	- / 2.298	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: M109 FOV Program Office</i>	0 / 4.762	0 / 1.407	0 / 2.265	0 / 2.298	0 / 0.000	0 / 2.298	- / -	- / -	- / -	- / -	- / -	- / -

Modification Item 2 of 12: Paladin Fire Control System												
A Kits												
Recurring												
Hardware	204 / 86.251	35 / 14.800	- / -	- / -	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 86.251	- / 14.800	- / -	- / -	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Paladin Fire Control System</i>	204 / 86.251	35 / 14.800	- / -	- / -	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Modification Item 3 of 12: Chrome Tubes												
A Kits												
Recurring												
Hardware	0 / 0.000	113 / 10.033	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.000	- / 10.033	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Chrome Tubes</i>	0 / 0.000	113 / 10.033	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Modification Item 4 of 12: Lightweight Bore Evacuator												
A Kits												
Recurring												
Hardware	0 / 0.000	219 / 5.217	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.000	- / 5.217	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Lightweight Bore Evacuator</i>	0 / 0.000	219 / 5.217	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Modification Item 5 of 12: M109 FOV System Technical Support - Contr												
A Kits												
Recurring												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: M109 Howitzer and M992 FAASV Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
STS	0 / 11.280	0 / 12.490	0 / 43.851	0 / 8.626	0 / 0.000	0 / 8.626	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 11.280	- / 12.490	- / 43.851	- / 8.626	- / 0.000	- / 8.626	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: M109 FOV System Technical Support - Contr</i>	0 / 11.280	0 / 12.490	0 / 43.851	0 / 8.626	0 / 0.000	0 / 8.626	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 6 of 12: Breech Mod (MACS)												
A Kits												
Recurring												
Hardware	0 / 0.000	0 / 0.000	144 / 11.231	283 / 20.000	0 / 0.000	283 / 20.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.000	- / 11.231	- / 20.000	- / 0.000	- / 20.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Breech Mod (MACS)</i>	0 / 0.000	0 / 0.000	144 / 11.231	283 / 20.000	0 / 0.000	283 / 20.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 7 of 12: Paladin Stowage Improvements												
A Kits												
Recurring												
Stowage Improvements	0 / 0.000	208 / 5.980	241 / 5.791	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.000	- / 5.980	- / 5.791	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Paladin Stowage Improvements</i>	0 / 0.000	208 / 5.980	241 / 5.791	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 8 of 12: FSCATT Phase III Upgrade												
A Kits												
Recurring												
Training Equipment Software	0 / 4.002	0 / 1.202	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 4.002	- / 1.202	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: FSCATT Phase III Upgrade</i>	0 / 4.002	0 / 1.202	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 9 of 12: CREW II A-Kit HW and Fielding												
A Kits												
Recurring												
Installation Kits	0 / 0.000	0 / 0.000	0 / 0.000	265 / 6.692	0 / 0.000	265 / 6.692	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.000	- / 0.000	- / 6.692	- / 0.000	- / 6.692	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: CREW II A-Kit HW and Fielding</i>	0 / 0.000	0 / 0.000	0 / 0.000	265 / 6.692	0 / 0.000	265 / 6.692	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 10 of 12: M109 FOV Mods												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: M109 Howitzer and M992 FAASV Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
A Kits												
Recurring												
M109 FOV Mods	0 / 0.000	0 / 0.000	0 / 0.000	0 / 26.614	0 / 0.000	0 / 26.614	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.000	- / 0.000	- / 26.614	- / 0.000	- / 26.614	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: M109 FOV Mods</i>	0 / 0.000	0 / 0.000	0 / 0.000	0 / 26.614	0 / 0.000	0 / 26.614	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 11 of 12: Prior Years Closed Mods												
A Kits												
Recurring												
Prior Closed Mods	0 / 1,816.451	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 1,816.451	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Prior Years Closed Mods</i>	0 / 1,816.451	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 12 of 12: Gun Tubes												
A Kits												
Recurring												
Hardware	0 / 34.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 34.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Gun Tubes</i>	0 / 34.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	204 / 1,956.746	575 / 51.129	385 / 63.138	548 / 64.230	0 / 0.000	548 / 64.230	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 2 of 12: Paladin Fire Control System	15 / 0.000	25 / 0.000	164 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 3 of 12: Chrome Tubes	0 / 0.000	0 / 0.000	113 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 4 of 12: Lightweight Bore Evacuator	0 / 0.000	0 / 0.000	219 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	15 / 0.000	25 / 0.000	496 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	1,956.746	51.129	63.138	64.230	-	64.230	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 12: M109 FOV Program Office							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Oct 2015	Oct 2016	Oct 2017				
Delivery Dates	Oct 2015	Oct 2016	Oct 2017				
Installation Information							
Method of Implementation (Organic): N/A					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 12: Paladin Fire Control System

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 24

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

Installation Information

Method of Implementation: x

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	15 / 0.000	25 / 0.000	164 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 0.000	25 / 0.000	164 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	15	6	0	0	19	46	46	46	26	0	0	0	0	9	9	8	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239
Out	15	6	0	0	19	46	46	46	26	0	0	0	0	9	9	8	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 3 of 12: Chrome Tubes

Manufacturer Information

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

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

Installation Information

Method of Implementation: .

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	113 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	113 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	113	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Out	-	0	0	0	0	28	29	28	28	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 4 of 12: Lightweight Bore Evacuator

Manufacturer Information

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

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

Installation Information

Method of Implementation: .

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	219 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	219 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	0	0	0	0	54	55	55	55	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Out	-	0	0	0	0	54	55	55	55	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 5 of 12: M109 FOV System Technical Support - Contr							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Oct 2015	Oct 2016	Oct 2017				
Delivery Dates	Oct 2015	Oct 2016	Oct 2017				
Installation Information							
Method of Implementation (Organic): N/A					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 6 of 12: Breech Mod (MACS)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Dec 2016	Dec 2017				
Delivery Dates		Dec 2017	Dec 2018				
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 7 of 12: Paladin Stowage Improvements							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 10				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jul 2017	Jul 2018				
Delivery Dates		Jul 2018	Jul 2019				
Installation Information							
Method of Implementation (Organic): Field Retrofit					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 8 of 12: FSCATT Phase III Upgrade							
Manufacturer Information							
Manufacturer Name: X				Manufacturer Location: X			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Oct 2015						
Delivery Dates	Oct 2015						
Installation Information							
Method of Implementation (Organic): N/A					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 9 of 12: CREW II A-Kit HW and Fielding							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Dec 2017				
Delivery Dates			Dec 2018				
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 10 of 12: M109 FOV Mods							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Oct 2017				
Delivery Dates			Oct 2017				
Installation Information							
Method of Implementation (Organic): n/a					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 11 of 12: Prior Years Closed Mods							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): x					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 12 of 12: Gun Tubes							
Manufacturer Information							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	35	30	48	59	12	71	47	56	57	56	168	568
Gross/Weapon System Cost (<i>\$ in Millions</i>)	594.010	273.850	594.489	646.413	125.736	772.149	511.069	602.194	627.204	603.010	2,332.024	6,909.999
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	594.010	273.850	594.489	646.413	125.736	772.149	511.069	602.194	627.204	603.010	2,332.024	6,909.999
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	594.010	273.850	594.489	646.413	125.736	772.149	511.069	602.194	627.204	603.010	2,332.024	6,909.999

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	16,971.714	9,128.333	12,385.188	10,956.153	10,478.000	10,875.338	10,873.809	10,753.464	11,003.579	10,768.036	13,881.095	12,165.491

Description:

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	30	34	59	12	71	27	28	29	28
	Total Obligation Authority	273.850	406.767	646.413	125.736	772.149	248.430	340.796	380.323	347.938
ANG	Quantity	-	14	-	-	-	20	28	28	28
	Total Obligation Authority	-	187.722	-	-	-	262.639	261.398	246.881	255.072
Total:	Quantity	30	48	59	12	71	47	56	57	56
Secondary Distribution	Total Obligation Authority	273.850	594.489	646.413	125.736	772.149	511.069	602.194	627.204	603.010

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	GZ0410 / Paladin Integrated Management (PIM)	P-5a, P-21	A	466	35 / 594.010	30 / 273.850	48 / 594.489	59 / 646.413	12 / 125.736	71 / 772.149
P-40	Total Gross/Weapon System Cost				35 / 594.010	30 / 273.850	48 / 594.489	59 / 646.413	12 / 125.736	71 / 772.149

*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 2018 Base Procurement dollars in the amount of \$646.413 million supports all aspects of the PIM Full Rate Production (FRP) program. Funding also supports Government Program Management required to provide oversight on contractor production operations that include: Quality Process Management, Program Management Reviews (weekly, monthly, and quarterly), Government Furnished Property and Material Management, and engineer activities resulting from waivers/deviations/problem resolution. Funds contractor operations that sustain production operations required to acquire materials, components and end-items; the manufacturing and assembly of sub-systems; the integration, test and check-out operations that results in the production of 59 SPHs and 59 CATs. The unit cost represents cost per set (1 SPH and 1 CAT).

The FY18 OCO includes \$125.736 million to support COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative (ERI). 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). Funding also acquires 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 Theatre Provided Equipment which includes 72 armor and the future requirement for the Underbelly armor kits.

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

UNCLASSIFIED

Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)	Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code: 466
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	35	30	48	59	12	71
Gross/Weapon System Cost (\$ in Millions)	594.010	273.850	594.489	646.413	125.736	772.149
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	594.010	273.850	594.489	646.413	125.736	772.149
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	594.010	273.850	594.489	646.413	125.736	772.149

(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)	16,971.714	9,128.333	12,385.188	10,956.153	10,478.000	10,875.338

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
SYS ENG/ PROG MGMT (CONTRACTOR)	-	-	12.703	-	-	2.909	-	-	13.737	-	-	14.189	-	-	2.886	-	-	17.075
SYSTEM TECHNICAL SUPPORT	-	-	70.626	-	-	0.530	-	-	55.947	-	-	53.251	-	-	-	-	-	53.251
SYS TEST & EVALUATION (CONTRACTOR)	-	-	21.306	-	-	1.480	-	-	1.817	-	-	1.740	-	-	0.354	-	-	2.094
SYS ENG/ PROG MGMT (GOVERNMENT)	-	-	53.264	-	-	6.694	-	-	28.744	-	-	28.739	-	-	-	-	-	28.739
SYS TEST & EVALUATION (GOVERNMENT)	-	-	2.808	-	-	0.205	-	-	3.452	-	-	7.607	-	-	-	-	-	7.607
TRANSPORTATION	-	-	0.263	-	-	0.140	-	-	0.703	-	-	0.791	-	-	0.161	-	-	0.952
Subtotal: Recurring Cost	-	-	160.970	-	-	11.958	-	-	104.400	-	-	106.317	-	-	3.401	-	-	109.718
Non Recurring Cost																		
PRODUCTION FACILITIZATION	-	-	28.131	-	-	3.343	-	-	19.384	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	28.131	-	-	3.343	-	-	19.384	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	189.101	-	-	15.301	-	-	123.784	-	-	106.317	-	-	3.401	-	-	109.718
Hardware Cost																		

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Exhibit P-5, Cost Analysis: FY 2018 Army													Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20						P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)						Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code: 466								

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
MANUFACTURING ⁽¹⁾	12,480.520	25	312.013	7,348.267	30	220.448	7,526.521	48	361.273	7,328.441	59	432.378	7,328.417	12	87.941	7,328.437	71	520.319
GOVERNMENT FURNISHED EQUIPMENT (GFE)	-	-	22.168	-	-	15.955	-	-	32.424	-	-	35.162	-	-	7.152	-	-	42.314
THEATRE PROVIDED EQUIPMENT	-	-	2.339	-	-	3.686	-	-	3.512	-	-	6.787	-	-	23.290	-	-	30.077
RECURRING PRODUCTION - OTHER	-	-	5.363	-	-	1.258	-	-	4.457	-	-	6.138	-	-	1.248	-	-	7.386
ENGINEERING CHANGE ORDERS	-	-	17.264	-	-	5.539	-	-	26.895	-	-	19.039	-	-	-	-	-	19.039
<i>Subtotal: Recurring Cost</i>	-	-	359.147	-	-	246.886	-	-	428.561	-	-	499.504	-	-	119.631	-	-	619.135
<i>Subtotal: Hardware Cost</i>	-	-	359.147	-	-	246.886	-	-	428.561	-	-	499.504	-	-	119.631	-	-	619.135
Support Cost																		
TRAINING	-	-	6.721	-	-	1.141	-	-	5.206	-	-	5.582	-	-	-	-	-	5.582
DATA	-	-	20.288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUPPORT EQUIPMENT	-	-	3.208	-	-	0.752	-	-	3.190	-	-	4.290	-	-	-	-	-	4.290
INITIAL SUPPORT EQUIP (ISE)	-	-	0.320	-	-	1.326	-	-	5.719	-	-	5.462	-	-	-	-	-	5.462
NEW EQUIP TRAINING (NET)	-	-	0.601	-	-	2.545	-	-	13.620	-	-	9.385	-	-	-	-	-	9.385
CONTRACTOR LOGISTICS SUPPORT (CLS)	-	-	-	-	-	0.197	-	-	0.417	-	-	0.326	-	-	-	-	-	0.326
INITIAL SPARES (REPARABLES & CONSUMABLES)	-	-	14.624	-	-	5.702	-	-	13.992	-	-	15.547	-	-	2.704	-	-	18.251
<i>Subtotal: Support Cost</i>	-	-	45.762	-	-	11.663	-	-	42.144	-	-	40.592	-	-	2.704	-	-	43.296
Gross/Weapon System Cost	16,971.714	35	594.010	9,128.333	30	273.850	12,385.188	48	594.489	10,956.153	59	646.413	10,478.000	12	125.736	10,875.338	71	772.149

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Army	Quantity	30	34	59	12	71
	Total Obligation Authority	273.850	406.767	646.413	125.736	772.149
ANG	Quantity	-	14	-	-	-

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)	Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Total Obligation Authority	-	187.722	-	-	-
Total:	Quantity	30	48	59	12	71
Secondary Distribution	Total Obligation Authority	273.850	594.489	646.413	125.736	772.149

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army							Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)				Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MANUFACTURING ^(†)		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	Jul 2017	Jul 2018	48	7,526.521			
MANUFACTURING ^(†)		2018	BAE / York	SS / FPIF	TACOM, Warren, MI	Jul 2018	Jul 2019	71	7,328.440			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: FY 2018 Army															Date: May 2017														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)										Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016													Fiscal Year 2017													BALANCE							
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
MANUFACTURING																																						
Prior Years Deliveries: 25																																						
	1	2016	ARMY	30	0	30	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	2	3	2	3	2	13
	1	2017	ARMY	48	0	48																																48
	1	2018	ARMY	71	0	71																																71
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: FY 2018 Army															Date: May 2017									
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)										Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)				

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

MANUFACTURING																																		
Prior Years Deliveries: 25																																		
1	2016	ARMY	30	17	13	2	3	2	3	3																							0	
1	2017	ARMY	48	0	48	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0	
1	2018	ARMY	71	0	71										A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	53
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: FY 2018 Army															Date: May 2017														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)										Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020													Fiscal Year 2021													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

MANUFACTURING

Prior Years Deliveries: 25																																			
1	2016	ARMY	30	30	0																														0
1	2017	ARMY	48	48	0																														0
1	2018	ARMY	71	18	53	6	6	6	6	6	6	6	6	5																					0
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

UNCLASSIFIED

Exhibit P-21, Production Schedule: FY 2018 Army								Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GZ0410 / Paladin Integrated Management (PIM)				Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BAE - York	2	6	10	0	2	16	18	0	3	19	22

Remarks:

.

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	770	47	61	16	-	16	-	-	-	-	-	894
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,190.571	187.129	226.963	72.402	-	72.402	-	-	-	-	-	2,677.065
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,190.571	187.129	226.963	72.402	-	72.402	-	-	-	-	-	2,677.065
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,190.571	187.129	226.963	72.402	-	72.402	-	-	-	-	-	2,677.065
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	2,844.897	3,981.468	3,720.705	4,525.125	-	4,525.125	-	-	-	-	-	2,994.480

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 and 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) as it is the only vehicle with the capability of providing Single Vehicle Recovery (SVR) of the 70 ton Abrams tank.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	39	53	16	-	16	-	-	-	-
	Total Obligation Authority	163.152	202.986	72.402	-	72.402	-	-	-	-
ANG	Quantity	8	8	-	-	-	-	-	-	-
	Total Obligation Authority	23.977	23.977	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	47	61	16	-	16	-	-	-	-
	Total Obligation Authority	187.129	226.963	72.402	-	72.402	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	P-5a, P-21	A		770 / 2,190.571	47 / 187.129	61 / 226.963	16 / 72.402	- / -	16 / 72.402
P-40	Total Gross/Weapon System Cost				770 / 2,190.571	47 / 187.129	61 / 226.963	16 / 72.402	- / -	16 / 72.402

*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 2018 Base procurement dollars in the amount of \$72.402 million supports the vehicle production and the procurement of 16 M88A2 vehicles with M88 Family of Vehicles Operational Modifications cut-in during production. The fielded M88A1 Medium Recovery Vehicles lack the necessary power, weight, and braking ability to safely support the recovery of the Abrams fleet. Improvements to the M88A2 HERCULES vehicles will 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. The current M88A2 platform analysis and testing funded with WCTV will be used for activities that would lead up to the ECP decision point.

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: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	770	47	61	16	-	16
Gross/Weapon System Cost (\$ in Millions)	2,190.571	187.129	226.963	72.402	-	72.402
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,190.571	187.129	226.963	72.402	-	72.402
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,190.571	187.129	226.963	72.402	-	72.402

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2,844.897	3,981.468	3,720.705	4,525.125	-	4,525.125

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Vehicle Manufacturing - Contractor ^(t)	2,169.268	770	1,670.336	2,982.553	47	140.180	3,040.426	61	185.466	2,967.313	16	47.477	-	-	-	2,967.313	16	47.477
Vehicle Manufacturing - GFE	-	-	103.136	-	-	2.060	-	-	3.954	-	-	1.058	-	-	-	-	-	1.058
System Technical Support	-	-	265.837	-	-	24.089	-	-	11.355	-	-	9.473	-	-	-	-	-	9.473
Program Management	-	-	48.135	-	-	7.050	-	-	9.833	-	-	9.574	-	-	-	-	-	9.574
Transportation	-	-	13.056	-	-	1.820	-	-	0.427	-	-	0.536	-	-	-	-	-	0.536
Fielding (TPF & NET)	-	-	19.780	-	-	2.760	-	-	1.109	-	-	1.389	-	-	-	-	-	1.389
Test (Production Verification Testing)	-	-	14.395	-	-	2.240	-	-	4.746	-	-	0.200	-	-	-	-	-	0.200
M88A1 Hull Reclamation	-	-	55.896	-	-	6.930	-	-	10.073	-	-	2.695	-	-	-	-	-	2.695
<i>Subtotal: Recurring Cost</i>	-	-	2,190.571	-	-	187.129	-	-	226.963	-	-	72.402	-	-	-	-	-	72.402
<i>Subtotal: Flyaway Cost</i>	-	-	2,190.571	-	-	187.129	-	-	226.963	-	-	72.402	-	-	-	-	-	72.402
Gross/Weapon System Cost	2,844.897	770	2,190.571	3,981.468	47	187.129	3,720.705	61	226.963	4,525.125	16	72.402	-	-	-	4,525.125	16	72.402

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Army	Quantity	39	53	16	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Total Obligation Authority	163.152	202.986	72.402	-	72.402
ANG	Quantity	8	8	-	-	-
	Total Obligation Authority	23.977	23.977	-	-	-
Total:	Quantity	47	61	16	-	16
Secondary Distribution	Total Obligation Authority	187.129	226.963	72.402	-	72.402

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)				Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
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	Nov 2017	47	2,982.550	Y		
Vehicle Manufacturing - Contractor ^(†)		2017	BAE Systems / York PA	SS / FFP	TACOM	Sep 2017	Dec 2018	61	3,040.430	Y		
Vehicle Manufacturing - Contractor ^(†)		2018	BAE Systems / York PA	SS / FFP	TACOM	Apr 2018	Mar 2020	16	2,967.310	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2016- Option 2 from FY14 Base Contract, awarded 36 vehicles 18 April 2016. FY16 Congressional Plus-Up awarded an additional 11 vehicles February 2017. Total FY16 production 47 vehicles.

FY 2017- Base Contract with Option will procure 61 vehicles, plan for September 2017 award.

FY 2018- Option from FY17 Base Contract will procure 16 vehicles, plan for April 2018 award.

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Exhibit P-21, Production Schedule: FY 2018 Army														Date: May 2017															
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)										Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)									

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2017														Fiscal Year 2018														BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Vehicle Manufacturing - Contractor																																			
Prior Years Deliveries: 734																																			
1	2015	ARMY		36	0	36	-	-	-	4	4	4	4	4	4	4	4												0						
1	2016	ARMY		47	0	47	-	-	-	-	-	-	-	-	-	-	-	-	1	4	4	4	4	4	4	4	4	4	6						
1	2017	ARMY		61	0	61												A	-	-	-	-	-	-	-	-	-	-	61						
1	2017	FMS (†)		2	0	2												A	-	-	-	-	-	2	-	-	-	-	0						
1	2017	Total		63	0	63												-	-	-	-	-	-	2	-	-	-	-	61						
1	2018	ARMY		16	0	16																							16						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: FY 2018 Army															Date: May 2017														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)										Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Vehicle Manufacturing - Contractor																																		
Prior Years Deliveries: 734																																		
1	2015	ARMY		36	36	0																												0
1	2016	ARMY		47	41	6		4																										0
1	2017	ARMY		61	0	61		-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0
1	2017	FMS (†)		2	2	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
1	2017	Total		63	2	61		-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0										
1	2018	ARMY		16	0	16		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: FY 2018 Army															Date: May 2017														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)										Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Vehicle Manufacturing - Contractor																															
Prior Years Deliveries: 734																															
1	2015	ARMY		36	36	0																							0		
1	2016	ARMY		47	47	0																							0		
1	2017	ARMY		61	61	0																							0		
1	2017	FMS ^(*)		2	2	0																							0		
1	2017	Total		63	63	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2018	ARMY		16	13	3	2	1																					0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)
		Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BAE Systems - York PA	1	8	12	0	7	21	28	0	7	23	30

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.
 "A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	339.099	2.461	9.415	5.855	-	5.855	2.481	3.196	5.481	10.320	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	339.099	2.461	9.415	5.855	-	5.855	2.481	3.196	5.481	10.320	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	339.099	2.461	9.415	5.855	-	5.855	2.481	3.196	5.481	10.320	Continuing	Continuing

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

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

Description:

The 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.

Justification:

FY 2018 Base procurement dollars in the amount of \$5.855 million supports a software update to the Assault Breacher Vehicle (ABV) to version 4.0. The update incorporates improve diagnostic capabilities and changes that will maintain commonality with other Abrams platforms and increase supportability within the Abrams family of vehicles. Additionally, components and installation for an ABV Engineering Change Proposal (ECP) to add seat belts and hand holds for the commander station will be procured. This will increase safety for the ABV commander. Finally, 4 Assault Vehicle Launched Bridge (AVLB) Military Load Capacity 85 ton (MLC 85) conversions will take place, converting to AVLB MLC 60 bridges to the more capable MLC 85 configuration. Modifying existing equipment will correct safety deficiencies, increase mission capabilities, extend the useful life, improve supportability, upgrade existing technology, increase efficiency, and improve readiness. Support the Active Army.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

ID Code (A=Service Ready, B=Not Service Ready): A **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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	113	-	-	7	-	7	11	6	6	6	-	149
Gross/Weapon System Cost (<i>\$ in Millions</i>)	431.849	2.975	2.928	34.221	-	34.221	55.478	30.000	30.000	30.000	-	617.451
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	431.849	2.975	2.928	34.221	-	34.221	55.478	30.000	30.000	30.000	-	617.451
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	431.849	2.975	2.928	34.221	-	34.221	55.478	30.000	30.000	30.000	-	617.451

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	3,821.673	-	-	4,888.714	-	4,888.714	5,043.455	5,000.000	5,000.000	5,000.000	-	4,143.966

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. The ABV is fabricated at Anniston Army Depot.

Army Acquisition Objective (AAO) ABV: 141

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army						6	6	6	6
	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.975	2.928	-	-	-	30.000	30.000	30.000	30.000
ANG						5	-	-	-
	-	-	7	-	7	-	-	-	-
Total Obligation Authority	-	-	34.221	-	34.221	25.478	-	-	-
Total: Secondary Distribution	-	-	7	-	7	11	6	6	6
Total Obligation Authority	2.975	2.928	34.221	-	34.221	55.478	30.000	30.000	30.000

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G82925 / Assault Breacher Vehicle	P-5a, P-21	A		113 / 431.849	- / 2.975	- / 2.928	7 / 34.221	- / -	7 / 34.221
P-40	Total Gross/Weapon System Cost				113 / 431.849	- / 2.975	- / 2.928	7 / 34.221	- / -	7 / 34.221

*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 2018 Base procurement dollars in the amount of \$34.221 million supports the procurement of 7 Assault Breacher Vehicles (ABVs) that give the Army a tracked armored capability to breach minefields, reduce barrier obstacles, and mark cleared lanes for following heavy combat forces while maintaining pace with them throughout high intensity combat operations. The ABV is fabricated at Anniston Army Depot.

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

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Exhibit P-5, Cost Analysis: FY 2018 Army						Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: G82925 / Assault Breacher Vehicle			Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle		
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:			
Resource Summary				Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)				113	-	-	7	-	7
Gross/Weapon System Cost (\$ in Millions)				431.849	2.975	2.928	34.221	-	34.221
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				431.849	2.975	2.928	34.221	-	34.221
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				431.849	2.975	2.928	34.221	-	34.221
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				3,821.673	-	-	4,888.714	-	4,888.714

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
ABV Hardware ^(†)	2,350.000	105	246.750	-	-	-	-	-	-	2,500.000	7	17.500	-	-	-	2,500.000	7	17.500
1. Full Width Mine Plow	355.000	72	25.560	-	-	-	-	-	-	385.000	4	1.540	-	-	-	385.000	4	1.540
2. Combat Dozer Blade	160.000	36	5.760	-	-	-	-	-	-	190.000	2	0.380	-	-	-	190.000	2	0.380
3. High Lift Adapter	185.000	105	19.425	-	-	-	-	-	-	215.000	7	1.505	-	-	-	215.000	7	1.505
4. Lane Marking System	182.000	105	19.110	-	-	-	-	-	-	215.000	7	1.505	-	-	-	215.000	7	1.505
5. Linear Demolition Control System	150.000	105	15.750	-	-	-	-	-	-	185.000	7	1.295	-	-	-	185.000	7	1.295
6. Integrated Vision System	385.000	105	40.425	-	-	-	-	-	-	430.000	7	3.010	-	-	-	430.000	7	3.010
7. Hull Integration Kit	16.000	105	1.680	-	-	-	-	-	-	16.000	7	0.112	-	-	-	16.000	7	0.112
8. Embedded Diagnostic Kit	55.000	105	5.775	-	-	-	-	-	-	75.000	7	0.525	-	-	-	75.000	7	0.525
Fielding	-	-	21.500	-	-	1.000	-	-	1.000	-	-	2.200	-	-	-	-	-	2.200
System Engineering/ Program Management	-	-	21.164	-	-	1.975	-	-	1.928	-	-	2.850	-	-	-	-	-	2.850
Data	-	-	8.950	-	-	-	-	-	-	-	-	1.799	-	-	-	-	-	1.799
<i>Subtotal: Recurring Cost</i>	-	-	431.849	-	-	2.975	-	-	2.928	-	-	34.221	-	-	-	-	-	34.221
<i>Subtotal: Flyaway Cost</i>	-	-	431.849	-	-	2.975	-	-	2.928	-	-	34.221	-	-	-	-	-	34.221

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Exhibit P-5, Cost Analysis: FY 2018 Army												Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20						P-1 Line Item Number / Title: G82925 / Assault Breacher Vehicle						Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	3,821.673	113	431.849	-	-	2.975	-	-	2.928	4,888.714	7	34.221	-	-	-	4,888.714	7	34.221

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.975	2.928	-	-	-
ANG	Quantity	-	-	7	-	7
	Total Obligation Authority	-	-	34.221	-	34.221
Total: Secondary Distribution	Quantity	-	-	7	-	7
	Total Obligation Authority	2.975	2.928	34.221	-	34.221

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: G82925 / Assault Breacher Vehicle	Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ABV Hardware ^(†)		2018	Anniston Army Depot- (ANAD) / Anniston, Al	MIPR	TACOM, Warren	Feb 2018	Feb 2019	7	2,500.000	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: FY 2018 Army	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: G82925 / Assault Breacher Vehicle	Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Anniston Army Depot-(ANAD) - Anniston, Al	1	1	3	0	5	12	17	0	5	12	17

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

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	97.889	14.878	8.685	4.826	-	4.826	4.558	-	-	-	-	130.836
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	97.889	14.878	8.685	4.826	-	4.826	4.558	-	-	-	-	130.836
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	97.889	14.878	8.685	4.826	-	4.826	4.558	-	-	-	-	130.836

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

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

Description:

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

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	14.878	8.685	4.826	-	4.826	4.558	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	14.878	8.685	4.826	-	4.826	4.558	-	-	-

Justification:

FY 2018 base procurement dollars in the amount of \$4.826 Million supports enhancements in operational safety, reliability, maintainability, MANPRINT, and network capability for the M88 fleet of vehicles. Modifications include automatic fire extinguishing system enhancements, Commander/Crew seat improvements, C4ISR (command, control, communications, computers, intelligence, surveillance and reconnaissance) integration efforts, hydraulic system safety enhancements, engine maintainability and 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. MANPRINT and Force Protection concerns will be addressed thru seat improvements.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604804A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	5	5	9	27	-	27	35	43	41	52	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	59.822	33.455	64.752	128.350	-	128.350	165.936	207.660	212.783	263.068	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	59.822	33.455	64.752	128.350	-	128.350	165.936	207.660	212.783	263.068	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	59.822	33.455	64.752	128.350	-	128.350	165.936	207.660	212.783	263.068	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	11,964.400	6,691.000	7,194.667	4,753.704	-	4,753.704	4,741.029	4,829.302	5,189.829	5,059.000	Continuing	Continuing

Description:

The Joint Assault Bridge (JAB) replaces the existing Wolverine and M48A5/M60 series 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 (MLC) 85 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 Milestone C - Limited Procurement phase. The production acquisition strategy includes a public/private partnership with Anniston Army Depot (ANAD) for the production of the Abrams chassis. Test completion is planned for September 2018, and Initial Operational Test completion is planned for early second quarter FY 2019 to support a Full Rate Production Decision third quarter FY 2019.

JAB AAO: 337

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	5	9	27	-	27	7	10	22	18
	Total Obligation Authority	33.455	64.752	128.350	-	128.350	32.392	52.234	117.338	93.645
ANG	Quantity	-	-	-	-	-	17	17	10	18
	Total Obligation Authority	-	-	-	-	-	81.128	80.101	50.198	89.737
AR	Quantity	-	-	-	-	-	11	16	9	16
	Total Obligation Authority	-	-	-	-	-	52.416	75.325	45.247	79.686
Total:	Quantity	5	9	27	-	27	35	43	41	52
Secondary Distribution	Total Obligation Authority	33.455	64.752	128.350	-	128.350	165.936	207.660	212.783	263.068

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604804A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	GZ3001 / Joint Assault Bridge	P-5a, P-21	B	X33	5 / 59.822	5 / 33.455	9 / 64.752	27 / 128.350	- / -	27 / 128.350
P-40	Total Gross/Weapon System Cost				5 / 59.822	5 / 33.455	9 / 64.752	27 / 128.350	- / -	27 / 128.350

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

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

Justification:
 FY 2018 Base Procurement dollars in the amount of \$128.350 million supports 27 Low Rate Initial Production (LRIP) Joint Assault Bridges (JAB) for Active Army requirements. The JAB fills a critical shortage in recently established Brigade Engineer Battalion (BEB) formations. The JAB chassis provides a system that offers the Combatant Commander enhanced survivability and mobility compared to the legacy M60 Armored Vehicle Launch Bridge, and is capable of supporting the Abrams Legacy Fleet while also providing improved sustainability. Support the Active Army.

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: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	5	5	9	27	-	27
Gross/Weapon System Cost (\$ in Millions)	59.822	33.455	64.752	128.350	-	128.350
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	59.822	33.455	64.752	128.350	-	128.350
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	59.822	33.455	64.752	128.350	-	128.350

(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)	11,964.400	6,691.000	7,194.667	4,753.704	-	4,753.704

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware ^(†)	4,547.000	5	22.735	1,250.000	5	6.250	6,250.000	9	56.250	1,250.000	27	33.750	-	-	-	1,250.000	27	33.750
GFM ANAD Rolling Chassis	4,097.600	5	20.488	2,300.000	5	11.500	-	-	-	2,478.000	27	66.906	-	-	-	2,478.000	27	66.906
Bridge Upgrades	400.000	5	2.000	380.000	5	1.900	469.000	9	4.221	469.000	27	12.663	-	-	-	469.000	27	12.663
Engineering Changes	-	-	-	-	-	-	-	-	0.500	-	-	2.832	-	-	-	-	-	2.832
System Engineering/ Program Management	-	-	12.000	-	-	2.000	-	-	2.145	-	-	3.652	-	-	-	-	-	3.652
Support Equipment/ ASIOE	-	-	-	-	-	-	-	-	0.015	-	-	0.107	-	-	-	-	-	0.107
Fielding	-	-	1.000	-	-	0.200	-	-	0.582	-	-	8.440	-	-	-	-	-	8.440
Subtotal: Recurring Cost	-	-	58.223	-	-	21.850	-	-	63.713	-	-	128.350	-	-	-	-	-	128.350
Non Recurring Cost																		
Simulator Upgrade	-	-	-	-	-	1.500	-	-	1.039	-	-	-	-	-	-	-	-	-
Logistics Products	-	-	1.599	-	-	10.105	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	1.599	-	-	11.605	-	-	1.039	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	59.822	-	-	33.455	-	-	64.752	-	-	128.350	-	-	-	-	-	128.350
Gross/Weapon System Cost	11,964.400	5	59.822	6,691.000	5	33.455	7,194.667	9	64.752	4,753.704	27	128.350	-	-	-	4,753.704	27	128.350

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Exhibit P-5, Cost Analysis: FY 2018 Army	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code: X33
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Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Army	Quantity	5	9	27	-	27
	Total Obligation Authority	33.455	64.752	128.350	-	128.350
Total:	Quantity	5	9	27	-	27
Secondary Distribution	Total Obligation Authority	33.455	64.752	128.350	-	128.350

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware ^(†)		2016	DRS Sustainment Systems, INC / Saint Louis, MO	C / FFP	TACOM, Warren, MI	May 2016	Dec 2017	5	1,250.000	Y		
Hardware ^(†)		2017	DRS Sustainment Systems, INC / Saint Louis, MO	C / FFP	TACOM, Warren, MI	Dec 2016	Jul 2018	9	6,250.000	Y		
Hardware ^(†)		2018	DRS Sustainment Systems, INC / Saint Louis, MO	C / FFP	TACOM, Warren, MI	Dec 2017	Apr 2019	27	1,250.000	Y		

^(†) indicates the presence of a P-21

Remarks:

DRS Sustainment Systems Inc. established a public private partnership with Anniston Army Depot (ANAD) to provide overhauled M1A1 Abrams Chassis.

FY 2017 Hardware Cost includes DRS Sustainment Systems Inc. costs as well as costs associated with the Government Furnished Material (GFM) Anniston Army Depot (ANAD) Rolling Chassis. Costs for the GFM ANAD Rolling Chassis are broken out for increased transparency in Prior Years, FY 2016, and FY 2018.

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Exhibit P-21, Production Schedule: FY 2018 Army **Date:** May 2017

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Hardware																															
Prior Years Deliveries: 5																															
	1	2016	ARMY	5	0	5																							5		
	1	2017	ARMY	9	0	9																							9		
	1	2018	ARMY	27	0	27																							27		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: FY 2018 Army **Date:** May 2017

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
Hardware																																	
Prior Years Deliveries: 5																																	
1		2016	ARMY	5	0	5	-	-	1	1	1	1	1																		0		
1		2017	ARMY	9	0	9	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
1		2018	ARMY	27	0	27			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	15
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: FY 2018 Army **Date:** May 2017

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Hardware																															
Prior Years Deliveries: 5																															
	1	2016	ARMY	5	5	0																							0		
	1	2017	ARMY	9	9	0																							0		
	1	2018	ARMY	27	12	15	2	2	3	3	3	2																	0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: FY 2018 Army	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GZ3001 / Joint Assault Bridge	Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	DRS Sustainment Systems, INC - Saint Louis, MO	1	2	4	0	8	19	27	0	3	16	19

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

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date: May 2017**

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5,436.689	430.939	480.166	248.826	138.700	387.526	238.500	272.200	280.467	275.000	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,436.689	430.939	480.166	248.826	138.700	387.526	238.500	272.200	280.467	275.000	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5,436.689	430.939	480.166	248.826	138.700	387.526	238.500	272.200	280.467	275.000	Continuing	Continuing

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

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

Description:

The 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 Active Protection Systems (APS), 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, Rear View Sensing System (RVSS), light weighting, and any other modification identified in existing requirements documents or validated by the Army.

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

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GA0700 / Mods (Increase Performance)				- / 5,436.689	- / 430.939	- / 480.166	- / 248.826	- / 138.700	- / 387.526
P-40	Total Gross/Weapon System Cost				- / 5,436.689	- / 430.939	- / 480.166	- / 248.826	- / 138.700	- / 387.526

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GA0700 / Mods (Increase Performance)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 238.500	- / 272.200	- / 280.467	- / 275.000	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 2018 base procurement dollars in the amount of \$248.826 million support the procurement and field application of the following: Ammunition Data Link (ADL) 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 2019. 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.

FY 2018 OCO procurement dollars in the amount of \$138.700 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the ERI. Funding will support the procurement of 87 Active Protection Systems (APS) for the Abrams Tank, which is critical to counter anti-armor capabilities in near-peer adversaries.

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.

Support the Active Army.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5,436.689	430.939	480.166	248.826	138.700	387.526	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,436.689	430.939	480.166	248.826	138.700	387.526	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,436.689	430.939	480.166	248.826	138.700	387.526	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Modifications to the Abrams Family of Vehicles. Supports the procurement and field application of the following: Ammunition Data Link (ADL) and Common Remote Operated Weapon Station Low Profile (CROWS-LP). ECP 1A hardware procurement for installation during vehicle recapitalization continues 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, 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), Common Remote Operated Weapon Station Low Profile (CROWS-LP), and lightweighting. Installation of hardware is either cascaded into the production line in an ECP or applied 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. Additionally, this modification line funds testing as well as System Technical Support (STSS) from General Dynamics Land Systems (GDLS), General Dynamics Canada (GDC), Raytheon, and DRS Technologies. Formerly, these costs were funded in the Abrams Program support line but were moved to this MOD 2 because STS and testing validation efforts are used to modify the tank in support of field upgrades and tank fielding.

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 began in FY 2016. Vehicle induction, ECP kit application, and vehicle recapitalization will begin in FY 2017 and continue in FY 2018. 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, FY16 and beyond procures full Next Evolution Armor (NEA) packages which will be applied during ECP 1A vehicle recapitalization.

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>Program/Engineering Support (MOD 5): This modification line funds 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.</p> <p>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.</p> <p>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.</p> <p>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, Watervliet Arsenal, Albany, NY, Anniston Army Depot, Anniston, AL, Allison Transmission, Tallahassee the Scranton, PA, Raytheon and DRS facilities, and any other facility that is involved in the production of tanks. Funding will be used 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.</p> <p>Survivability Enhancements (MOD 9): This funding supports the procurement and field application of the Active Protection System, countermeasures, and for components and labor for required safety and other 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. Production of the systems begins in FY 2018, installation begins in FY 2019 and continues in FY 2020.</p>		

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Exhibit P-3a, Individual Modification: FY 2018 Army											Date: May 2017	
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: Abrams Family of Vehicles			Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 9: Prior Year Closed Mods												
A Kits												
Non-Recurring												
Other	0 / 2,842.034	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Non-Recurring	- / 2,842.034	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Prior Year Closed Mods	0 / 2,842.034	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 9: Abrams Field Upgrades												
A Kits												
Recurring												
CROWS-LP A and B Kits & ICDU upgrade	0 / 0.000	315 / 49.803	150 / 13.403	287 / 53.954	0 / 0.000	287 / 53.954	- / -	- / -	- / -	- / -	- / -	- / -
VEM	0 / 0.000	45 / 2.686	60 / 7.828	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Ammunition Data Link (ADL)	405 / 59.281	0 / 0.000	60 / 2.153	90 / 8.699	0 / 0.000	90 / 8.699	- / -	- / -	- / -	- / -	- / -	- / -
Maintenance Support Device Hard Drive	0 / 0.000	0 / 0.000	0 / 0.510	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Safety/Operational Mods	0 / 23.450	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Support Equipment and TPF	0 / 61.489	0 / 37.217	0 / 17.063	0 / 16.246	0 / 0.000	0 / 16.246	- / -	- / -	- / -	- / -	- / -	- / -
System Technical Support	0 / 223.897	0 / 45.934	0 / 56.284	0 / 73.767	0 / 0.000	0 / 73.767	- / -	- / -	- / -	- / -	- / -	- / -
Test Support	0 / 0.000	0 / 0.000	0 / 0.000	0 / 7.226	0 / 0.000	0 / 7.226	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 368.117	- / 135.640	- / 97.241	- / 159.892	- / 0.000	- / 159.892	- / -	- / -	- / -	- / -	- / -	- / -
Non-Recurring												
Installation Kits	0 / 283.400	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
CROWS-LP Engineering Support	0 / 6.283	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Non-Recurring	- / 289.683	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Abrams Field Upgrades	405 / 657.800	360 / 135.640	270 / 97.241	377 / 159.892	0 / 0.000	377 / 159.892	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 3 of 9: Engineering Change Proposal 1A												
A Kits												
Recurring												
ECP 1a Modification Kits	0 / 0.000	45 / 92.478	60 / 166.006	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 0.000	- / 92.478	- / 166.006	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Engineering Change Proposal 1A	0 / 0.000	45 / 92.478	60 / 166.006	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: FY 2018 Army										Date: May 2017				
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				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: Abrams Family of Vehicles				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
Modification Item 4 of 9: Armor														
A Kits														
Recurring														
Armor Sets	114 / 160.480	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Next Generation Armor	0 / 0.000	45 / 68.000	60 / 73.134	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Recurring	- / 160.480	- / 68.000	- / 73.134	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Non-Recurring														
Installation Kits	821 / 526.800	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Non-Recurring	- / 526.800	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Armor	935 / 687.280	45 / 68.000	60 / 73.134	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 5 of 9: Program/Engineering Support														
A Kits														
Recurring														
Government Program Support	0 / 90.222	0 / 40.884	0 / 31.944	0 / 9.956	0 / 0.000	0 / 9.956	- / -	- / -	- / -	- / -	- / -	- / -		
Contractor Program Support	0 / 10.609	0 / 3.354	0 / 2.260	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Government Test Support	0 / 5.911	0 / 2.543	0 / 17.858	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Recurring	- / 106.742	- / 46.781	- / 52.062	- / 9.956	- / 0.000	- / 9.956	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Program/Engineering Support	0 / 106.742	0 / 46.781	0 / 52.062	0 / 9.956	0 / 0.000	0 / 9.956	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 6 of 9: Power Pack Improvement and Integration														
A Kits														
Recurring														
System Technical Support	0 / 85.495	0 / 37.747	0 / 14.303	0 / 11.627	0 / 0.000	0 / 11.627	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Recurring	- / 85.495	- / 37.747	- / 14.303	- / 11.627	- / 0.000	- / 11.627	- / -	- / -	- / -	- / -	- / -	- / -		
Non-Recurring														
Installation Kits	2,691 / 930.300	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Non-Recurring	- / 930.300	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Power Pack Improvement and Integration	2,691 / 1,015.795	0 / 37.747	0 / 14.303	0 / 11.627	0 / 0.000	0 / 11.627	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 7 of 9: Training Devices														
A Kits														

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Exhibit P-3a, Individual Modification: FY 2018 Army										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Abrams Family of Vehicles				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
Recurring													
Training Equipment Modifications	0 / 114.690	0 / 10.293	0 / 19.613	0 / 13.089	0 / 0.000	0 / 13.089	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 114.690	- / 10.293	- / 19.613	- / 13.089	- / 0.000	- / 13.089	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Training Devices</i>	0 / 114.690	0 / 10.293	0 / 19.613	0 / 13.089	0 / 0.000	0 / 13.089	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 8 of 9: Facilities Optimization and Maintenance													
A Kits													
Recurring													
Production Line Optimization	0 / 12.348	0 / 40.000	0 / 14.031	0 / 10.658	0 / 0.000	0 / 10.658	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 12.348	- / 40.000	- / 14.031	- / 10.658	- / 0.000	- / 10.658	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Facilities Optimization and Maintenance</i>	0 / 12.348	0 / 40.000	0 / 14.031	0 / 10.658	0 / 0.000	0 / 10.658	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 9 of 9: Survivability Enhancements													
A Kits													
Recurring													
Active Protection System (APS)	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 10.469	0 / 10.469	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 10.469	- / 10.469	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
APS	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	87 / 128.231	87 / 128.231	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 128.231	- / 128.231	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Survivability Enhancements</i>	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	87 / 138.700	87 / 138.700	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	4,031 / 5,436.689	450 / 430.939	390 / 436.390	377 / 205.222	87 / 138.700	464 / 343.922	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 3 of 9:</i> Engineering Change Proposal 1A	0 / 0.000	0 / 0.000	45 / 43.776	60 / 43.604	0 / 0.000	60 / 43.604	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Modification Item 9 of 9:</i> Survivability Enhancements	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	10 / 0.000	10 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	0 / 0.000	0 / 0.000	45 / 43.776	60 / 43.604	10 / 0.000	70 / 43.604	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	5,436.689	430.939	480.166	248.826	138.700	387.526	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 9: Prior Year Closed Mods							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 2 of 9: Abrams Field Upgrades							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor Teams (Contractor dates will vary by item and cannot be predicted)						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 4 of 9: Armor							
Manufacturer Information							
Manufacturer Name: Department of Energy				Manufacturer Location: Various			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Apr 2016	Apr 2017					
Delivery Dates	Apr 2017	Apr 2018					
Installation Information							
Method of Implementation (Organic): Armor package will be applied during ECP 1A vehicle recapitalization					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 5 of 9: Program/Engineering Support							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 1			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Oct 2015	Oct 2016	Oct 2017				
Delivery Dates	Nov 2015	Nov 2016	Nov 2017				
Installation Information							
Method of Implementation (Organic): Various						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 6 of 9: Power Pack Improvement and Integration							
Manufacturer Information							
Manufacturer Name: Honeywell and Allison Transmission				Manufacturer Location: Phoenix Arizona and Indianapolis Indiana			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor Support (Contractor dates will vary by item and cannot be predicted)						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 7 of 9: Training Devices							
Manufacturer Information							
Manufacturer Name: PEO Simulation Training and Instrumentation					Manufacturer Location: Orlando Florida		
Administrative Leadtime (in Months):					Production Leadtime (in Months):		
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various (Contractor dates will vary by item and cannot be predicted)					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 8 of 9: Facilities Optimization and Maintenance							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various (Contractor dates will vary by item and cannot be predicted)						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 9 of 9: Survivability Enhancements

Manufacturer Information

Manufacturer Name: General Dynamics Land Systems Manufacturer Location: Sterling Heights, MI

Administrative Leadtime (in Months): 6 Production Leadtime (in Months): 17

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

Installation Information

Method of Implementation: Contract FFP

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	10 / 0.000	10 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	10 / 0.000	10 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot					
		Q1	Q2	Q3	Q4																															
In	-	0	0	0	0	0	0	0	0	0	0	0	10	22	22	23	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	22	22	23	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1,611	-	27	20	36	56	20	33	34	34	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9,049.107	-	330.000	275.000	442.800	717.800	261.500	442.149	454.200	479.000	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9,049.107	-	330.000	275.000	442.800	717.800	261.500	442.149	454.200	479.000	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9,049.107	-	330.000	275.000	442.800	717.800	261.500	442.149	454.200	479.000	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	5,617.074	-	12,222.222	13,750.000	12,300.000	12,817.857	13,075.000	13,398.455	13,358.824	14,088.235	Continuing	Continuing

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 modify and upgrade the Abrams M1A2SEP v3 tank to support the industrial base. Efforts to develop leaner Abrams production processes and optimize facilities will also be initiated.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	GA0750 / Abrams Upgrade Program	P-5a, P-21	A		1,611 / 9,049.107	- / -	27 / 330.000	20 / 275.000	36 / 442.800	56 / 717.800
P-40	Total Gross/Weapon System Cost				1,611 / 9,049.107	- / -	27 / 330.000	20 / 275.000	36 / 442.800	56 / 717.800

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

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

Justification:
 FY 2018 Base Procurement dollars in the amount of \$275.000 million supports the upgrade of 20 M1A1 vehicle variants to the M1A2 System Enhancement Package (SEP) v3 variant to enhance tank survivability, the automotive power pack, computer systems and night vision capabilities. This upgrade is part of the Engineering Change Proposal that addresses capability gaps on the tank fleet. The program upgrades will be integrated at Anniston Army Depot (ANAD) and General Dynamics Land Systems (GDLS). Support the Active Army.

FY 2018 OCO Procurement dollars in the amount of \$442.800 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the ERI. Funding will procure 36 M1A2 SEP v3 upgrade vehicles. Support the Active Army.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	1,611	-	27	20	36	56
Gross/Weapon System Cost (\$ in Millions)	9,049.107	-	330.000	275.000	442.800	717.800
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	9,049.107	-	330.000	275.000	442.800	717.800
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	9,049.107	-	330.000	275.000	442.800	717.800

(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)	5,617.074	-	12,222.222	13,750.000	12,300.000	12,817.857

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Basic Vehicle ^(t)	3,860.237	1,611	6,218.842	-	-	-	5,816.481	27	157.045	6,026.950	20	120.539	6,015.000	36	216.540	6,019.268	56	337.079
Government Furnished Equipment (GFE)	-	-	1,173.011	-	-	-	-	-	111.068	-	-	81.640	-	-	147.165	-	-	228.805
Pre-Modification Vehicle Teardown/ Refurb	-	-	1.900	-	-	-	-	-	16.241	-	-	12.270	-	-	22.085	-	-	34.355
TPF/New Equipment Training	-	-	197.117	-	-	-	-	-	5.373	-	-	17.245	-	-	8.037	-	-	25.282
Government Support	-	-	1,124.395	-	-	-	-	-	6.677	-	-	17.820	-	-	5.940	-	-	23.760
Transmissions	-	-	141.273	-	-	-	-	-	8.697	-	-	6.679	-	-	9.096	-	-	15.775
Forward Looking Infrared (FLIR)	-	-	97.808	-	-	-	-	-	24.899	-	-	18.807	-	-	33.937	-	-	52.744
Industrial Base Mitigation Support	-	-	94.761	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>9,049.107</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>330.000</i>	<i>-</i>	<i>-</i>	<i>275.000</i>	<i>-</i>	<i>-</i>	<i>442.800</i>	<i>-</i>	<i>-</i>	<i>717.800</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>9,049.107</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>330.000</i>	<i>-</i>	<i>-</i>	<i>275.000</i>	<i>-</i>	<i>-</i>	<i>442.800</i>	<i>-</i>	<i>-</i>	<i>717.800</i>
Gross/Weapon System Cost	5,617.074	1,611	9,049.107	-	-	-	12,222.222	27	330.000	13,750.000	20	275.000	12,300.000	36	442.800	12,817.857	56	717.800

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Basic Vehicle ^(†)		2015	GDLS / Sterling Heights, MI	SS / FFP	TACOM-Warren	Dec 2016	Sep 2017	6	12,867.167			
Basic Vehicle ^(†)		2017	GDLS / Sterling Heights, MI	SS / FPIF	TACOM-Warren	Nov 2017	Jun 2019	27	5,816.480	N		
Basic Vehicle ^(†)		2018	GDLS / Sterling Heights, MI	SS / FPIF	TACOM-Warren	Nov 2017	Oct 2019	56	6,019.270	N		

^(†) indicates the presence of a P-21

Remarks:

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

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Exhibit P-21, Production Schedule: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	BAL D U E A S O F 1 O C T	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Basic Vehicle																																	
Prior Years Deliveries: 1605																																	
1	2015	ARMY		6	0	6		A	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	0				
1	2017	ARMY		27	0	27														A	-	-	-	-	-	-	-	-	27				
1	2018	ARMY		56	0	56														A	-	-	-	-	-	-	-	-	56				
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
								C	O	E	A	E	A	A	A	U	U	U	E	C	O	E	A	E	A	A	A	U	U	A	S		
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P		

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Exhibit P-21, Production Schedule: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019													Fiscal Year 2020													BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Basic Vehicle																																			
Prior Years Deliveries: 1605																																			
1		2015	ARMY	6	6	0																												0	
1		2017	ARMY	27	0	27	-	-	-	-	-	-	-	-	4	6	6	11																	0
1		2018	ARMY	56	0	56	-	-	-	-	-	-	-	-	-	-	-	-	10	10	6	6	6	6	6	6	6						0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: FY 2018 Army								Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program				Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GDLS - Sterling Heights, MI	1	10	28	0	2	19	21	0	2	19	21

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

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity:
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 30: Support Equipment & Facilities

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,585.586	6.122	-	-	-	-	-	-	-	-	-	1,591.708
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,585.586	6.122	-	-	-	-	-	-	-	-	-	1,591.708
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,585.586	6.122	-	-	-	-	-	-	-	-	-	1,591.708

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

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

Description:

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

Justification:

There is no FY 2018 funding.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	105	-	-	-	-	-	-	-	-	105
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	9.764	-	-	-	-	-	-	-	-	9.764
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	9.764	-	-	-	-	-	-	-	-	9.764
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	9.764	-	-	-	-	-	-	-	-	9.764

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

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

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 exposed and defilade (hidden) targets.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
	Quantity	-	105	-	-	-	-	-	-
	Total Obligation Authority	-	9.764	-	-	-	-	-	-
Total:	Quantity	-	105	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	9.764	-	-	-	-	-	-

Justification:

There is no FY2018 funding

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G13000 / M240 Medium Machine Gun (7.62mm)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	643	-	-	-	-	-	-	-	-	-	643
Gross/Weapon System Cost (<i>\$ in Millions</i>)	773.189	7.000	-	1.992	-	1.992	-	-	-	-	-	782.181
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	773.189	7.000	-	1.992	-	1.992	-	-	-	-	-	782.181
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	773.189	7.000	-	1.992	-	1.992	-	-	-	-	-	782.181

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	10.886	-	-	-	-	-	-	-	-	-	1,216.456

Description:

The M240 series machine guns are available in different configurations for various applications. The M240B Machine Gun is a ground version of the original M240 Machine Gun, 7.62MM Medium Machine Gun class weapon, designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B also includes: a flash suppressor, front sight, carrying handle, buttstock, pistol grip, bipod, heat shield and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjunction with a traversing and elevating mechanism and mount pintle. The M240H is a variant of this same family of Machine Guns and is employed as the self defensive armament subsystem for the UH-60 BLACK HAWK and CH-47 Chinook Helicopters. The M240H uses the same receiver and barrel as the M240B but has a spade grip trigger assembly. It also has a unique mounting interface and pintle to properly interface with the helicopter platform. The lighter M240L replaces the M240B in Special Forces/Rangers, Light Infantry and Airborne units. The M240L significantly reduces the weight of the current M240B, by approximately 5 pounds, while maintaining the same level of reliability. The weight reduction is accomplished through the use of lightweight materials and innovative manufacturing techniques.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	172	-	-	-	-	-	-	-
	Total Obligation Authority	1.873	-	1.992	-	1.992	-	-	-
ANG	Quantity	454	-	-	-	-	-	-	-
	Total Obligation Authority	4.942	-	-	-	-	-	-	-
AR	Quantity	17	-	-	-	-	-	-	-
	Total Obligation Authority	0.185	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	643	-	-	-	-	-	-	-
	Total Obligation Authority	7.000	-	1.992	-	1.992	-	-	-

Justification:

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles		P-1 Line Item Number / Title: G13000 / M240 Medium Machine Gun (7.62mm)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2018 Base procurement dollars in the amount of \$1.992 million supports the Active Army by purchasing 120 M240L's and requisite ancillary equipment and fielding support. Additional M240s are required to support Brigade Combat Teams, replacing existing M249s.</p> <p>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.</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	93	-	93	250	280	258	147	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	6.520	-	6.520	17.500	19.714	18.167	10.342	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	6.520	-	6.520	17.500	19.714	18.167	10.342	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	6.520	-	6.520	17.500	19.714	18.167	10.342	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	70.108	-	70.108	70.000	70.407	70.415	70.354	Continuing	Continuing

Description:

The Multi-Role Anti-Armor/Anti-Personnel Weapon System (MAAWS) or, M3/M3A1 Carl Gustaf MAAWS is a shoulder-fired, 84mm reusable recoilless rifle/launcher weapon system with an effective firing range of up to 1300 meters based on ammunition used. It also supports full and sub caliber training systems. The M3/M3A1 MAAWS is capable of engaging, neutralizing and destroying lightly armored vehicles, soft skinned vehicles, personnel in the open or defilade, and field fortifications in both open urban and rural operational environments. The M3/M3A1 MAAWS is also capable of marking threat targets with smoke for supporting weapons, obscuring threat weapons and illuminating threat targets.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	93	-	93	250	164	144	120
	Total Obligation Authority	-	-	6.520	-	6.520	17.500	11.546	10.124	8.452
ANG	Quantity	-	-	-	-	-	-	116	114	27
	Total Obligation Authority	-	-	-	-	-	-	8.168	8.043	1.890
Total: Secondary Distribution	Quantity	-	-	93	-	93	250	280	258	147
	Total Obligation Authority	-	-	6.520	-	6.520	17.500	19.714	18.167	10.342

Justification:

FY2018 base procurement dollars in the amount of \$6.520 million supports the Active Army through the procurement of 93 M3/M3A1 Lightweight rifles, fire control, sub caliber adapters and initial spares. Funds will also provide for all other program support. This budget line item will be a new start in FY2018.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G02200 / Mortar Systems
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	342.285	12.021	38.942	21.452	-	21.452	13.606	16.088	8.813	4.300	-	457.507
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	342.285	12.021	38.942	21.452	-	21.452	13.606	16.088	8.813	4.300	-	457.507
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	342.285	12.021	38.942	21.452	-	21.452	13.606	16.088	8.813	4.300	-	457.507

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

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

Description:

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

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	10.521	38.942	21.452	-	21.452	13.606	16.088	8.813	4.300
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.500	-	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	12.021	38.942	21.452	-	21.452	13.606	16.088	8.813	4.300

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G02200 / Mortar Systems
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	G02202 / Mtr Wpn Sys		A		- / 342.285	197 / 12.021	395 / 38.942	174 / 21.452	- / -	174 / 21.452
P-40	Total Gross/Weapon System Cost				- / 342.285	- / 12.021	- / 38.942	- / 21.452	- / -	- / 21.452

*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:
 Mortar Systems is a war reserve item used both in training and combat. The FY 2018 request supports annual training and builds a war reserve inventory in accordance with the Army procurement goals. FY 2018 Base procurement dollars in the amount of \$21.452 million supports the procurement of four M1101 Trailers, four M326 Mortar Stowage Kits, 66 M252A1 (81mm) mortar systems, and 100 M121 (120mm) mortar systems including 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 mortar systems resulting from Army Reorganization of Infantry Brigade Combat Teams from two Battalions per Brigade to three Battalions per Brigade, and to procure 120mm mortars to support the Armored Multipurpose Vehicle (AMPV) Mortar Carrier Initial Operational Test and Evaluation (IOTE) and Low Rate Initial Production (LRIP) efforts.

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 **P-1 Line Item Number / Title:** G02200 / Mortar Systems **Aggregated Items Title:** Various

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Mtr Wpn Sys																				
G02202 / Mtr Wpn Sys	A		-	-	342.285	61.020	197	12.021	98.587	395	38.942	123.287	174	21.452	-	-	-	123.287	174	21.452
Subtotal: Mtr Wpn Sys			-	-	342.285	-	-	12.021	-	-	38.942	-	-	21.452	-	-	-	-	-	21.452
Total			-	-	342.285	-	-	12.021	-	-	38.942	-	-	21.452	-	-	-	-	-	21.452

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	8,115	4,360	-	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	211.476	13.516	3.062	4.524	-	4.524	-	-	8.000	16.000	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	211.476	13.516	3.062	4.524	-	4.524	-	-	8.000	16.000	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	211.476	13.516	3.062	4.524	-	4.524	-	-	8.000	16.000	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	26.060	3.100	-	-	-	-	-	-	-	-	Continuing	Continuing

Description:

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

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	2,921	-	-	-	-	-	-	-
	Total Obligation Authority	9.056	3.062	4.524	-	4.524	-	-	8.000
ANG	Quantity	872	-	-	-	-	-	-	-
	Total Obligation Authority	2.703	-	-	-	-	-	-	-
AR	Quantity	567	-	-	-	-	-	-	-
	Total Obligation Authority	1.757	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	4,360	-	-	-	-	-	-	-
	Total Obligation Authority	13.516	3.062	4.524	-	4.524	-	-	8.000

Justification:

FY 2018 Base procurement dollars in the amount of \$4.524 million supports the fielding efforts of the M320 Grenade Launcher Module (GLM) system. The GLM 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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles		P-1 Line Item Number / Title: G01501 / XM320 Grenade Launcher Module (GLM)
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		
<p>and increases first-round probability of hit. 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.</p> <p>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.</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	66	-	-	-	912	1,796	1,795	1,422	-	5,991
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	0.992	-	-	-	8.310	41.360	41.360	15.050	-	107.072
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	0.992	-	-	-	8.310	41.360	41.360	15.050	-	107.072
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	0.992	-	-	-	8.310	41.360	41.360	15.050	-	107.072

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	15.030	-	-	-	9.112	23.029	23.042	10.584	-	17.872

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 improved overmatch in a more full-spectrum and versatile weapon to Sniper Teams than the current M110 SASS, will improve accuracy, reliability, longevity and will lighten the soldier's load with no sacrifices in performance along with substantially reduced sustainment costs. The CSASS will replace all fielded M110 SASS. The Squad Designated Marksman rifle will be the Heckler & Koch G28E, 7.62x51mm semi-automatic rifle with suppressor and additional authorized equipment. The SDM is intended to provide increased accuracy at longer ranges, giving infantry squads greater firepower by engaging targets out to 600 meters (T), 1000 meters (O) with precision fire. This rifle will be delivered under an existing Army contract. The Interim Combat Service Rifle (ICSR) will be a lightweight derivative of a 7.62mm caliber rifle for selected Brigade Combat Teams (BCT) pending development, procurement and fielding of a new Next Generation Squad Weapon (NGSW). BCTs require the capability to engage threat personnel with aimed lethal and accurate fires at ranges exceeding the current 5.56mm Carbine provided today.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	66	-	-	-	912	1,098	1,070	115
	Total Obligation Authority	-	0.992	-	-	-	8.310	35.000	34.754	1.050
ANG	Quantity	-	-	-	-	-	-	698	698	1,307
	Total Obligation Authority	-	-	-	-	-	-	6.360	6.360	14.000
AR	Quantity	-	-	-	-	-	-	-	27	-
	Total Obligation Authority	-	-	-	-	-	-	-	0.246	-
Total:	Quantity	-	66	-	-	-	912	1,796	1,795	1,422
Secondary Distribution	Total Obligation Authority	-	0.992	-	-	-	8.310	41.360	41.360	15.050

Justification:

No funding in FY18.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles		P-1 Line Item Number / Title: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G13501 / Carbine
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	22,253	40,686	53,441	65,876	-	65,876	48,273	48,127	24,015	20,483	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.171	31.260	40.493	43.150	-	43.150	31.619	31.538	15.731	13.417	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	61.171	31.260	40.493	43.150	-	43.150	31.619	31.538	15.731	13.417	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.171	31.260	40.493	43.150	-	43.150	31.619	31.538	15.731	13.417	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	2.749	0.768	0.758	0.655	-	0.655	0.655	0.655	0.655	0.655	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.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	
Army	Quantity	19,530	3,168	11,448	-	11,448	-	1,909	8,595	20,483
	Total Obligation Authority	15.005	3.546	7.499	-	7.499	-	1.251	5.630	13.417
ANG	Quantity	13,833	29,648	29,183	-	29,183	16,928	21,883	7,787	-
	Total Obligation Authority	10.628	21.655	19.115	-	19.115	11.088	14.334	5.101	-
AR	Quantity	7,323	20,625	25,245	-	25,245	31,345	24,335	7,633	-
	Total Obligation Authority	5.627	15.292	16.536	-	16.536	20.531	15.953	5.000	-
Total: Secondary Distribution	Quantity	40,686	53,441	65,876	-	65,876	48,273	48,127	24,015	20,483
	Total Obligation Authority	31.260	40.493	43.150	-	43.150	31.619	31.538	15.731	13.417

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G13501 / Carbine
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G13503 / M4A1 CARBINE	P-5a, P-21	A		22,253 / 61.171	40,686 / 31.260	53,441 / 40.493	65,876 / 43.150	- / -	65,876 / 43.150
P-40	Total Gross/Weapon System Cost				22,253 / 61.171	40,686 / 31.260	53,441 / 40.493	65,876 / 43.150	- / -	65,876 / 43.150

*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 2018 Base procurement dollars in the amount of \$43,150 million supports the procurement of 65,876 M4A1 Carbines with a backup iron sight, and adapter rail system. The M4A1 Carbine is produced with a heavier barrel to accommodate and sustain a higher rate of fire using the full automatic mode of fire and an ambidextrous selector. The purchase of the carbines enhances current capability allowing the Soldier to engage targets in full automatic mode of fire at a higher sustained rate of fire as compared to the M4 Carbine.

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

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: G13501 / Carbine	Item Number / Title [DODIC]: G13503 / M4A1 CARBINE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	22,253	40,686	53,441	65,876	-	65,876
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.171	31.260	40.493	43.150	-	43.150
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	61.171	31.260	40.493	43.150	-	43.150
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.171	31.260	40.493	43.150	-	43.150

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	2.749	0.768	0.758	0.655	-	0.655

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. M4A1 Carbine ^(†)	0.672	81,928	55.028	0.624	40,686	25.405	0.666	53,441	35.605	0.586	65,876	38.573	-	-	-	0.586	65,876	38.573
2. Colt's Royalty payment	-	-	0.670	-	-	0.390	-	-	0.945	-	-	0.370	-	-	-	-	-	0.370
3. M4A1 Rebaseline Test	-	-	-	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
4. M4A1 First Article Test	-	-	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5. RIA Workload Initiative	-	-	1.101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6. M4A1 Technical Manuals	-	-	-	-	-	0.004	-	-	0.200	-	-	0.201	-	-	-	-	-	0.201
Transportation Cost	-	-	-	-	-	0.160	-	-	-	-	-	0.050	-	-	-	-	-	0.050
<i>Subtotal: Recurring Cost</i>	-	-	56.852	-	-	26.192	-	-	36.737	-	-	39.224	-	-	-	-	-	39.224
<i>Subtotal: Flyaway Cost</i>	-	-	56.852	-	-	26.192	-	-	36.737	-	-	39.224	-	-	-	-	-	39.224
Package Fielding Cost																		
Recurring Cost																		
7. Total Package Fielding (TPF)	-	-	0.828	-	-	0.800	-	-	0.605	-	-	0.610	-	-	-	-	-	0.610
<i>Subtotal: Recurring Cost</i>	-	-	0.828	-	-	0.800	-	-	0.605	-	-	0.610	-	-	-	-	-	0.610
Non Recurring Cost																		
8. Integrated Logistics Support (ILS)	-	-	0.394	-	-	0.150	-	-	0.155	-	-	0.110	-	-	-	-	-	0.110

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Exhibit P-5, Cost Analysis: FY 2018 Army												Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10						P-1 Line Item Number / Title: G13501 / Carbine						Item Number / Title [DODIC]: G13503 / M4A1 CARBINE					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Non Recurring Cost</i>	-	-	0.394	-	-	0.150	-	-	0.155	-	-	0.110	-	-	-	-	-	0.110
<i>Subtotal: Package Fielding Cost</i>	-	-	1.222	-	-	0.950	-	-	0.760	-	-	0.720	-	-	-	-	-	0.720
Support - Program Management Cost																		
Government Management	-	-	2.207	-	-	2.643	-	-	1.526	-	-	1.769	-	-	-	-	-	1.769
<i>Subtotal: Support - Program Management Cost</i>	-	-	2.207	-	-	2.643	-	-	1.526	-	-	1.769	-	-	-	-	-	1.769
Support - System Engineering Cost																		
System Engineering	-	-	0.890	-	-	1.475	-	-	1.470	-	-	1.437	-	-	-	-	-	1.437
<i>Subtotal: Support - System Engineering Cost</i>	-	-	0.890	-	-	1.475	-	-	1.470	-	-	1.437	-	-	-	-	-	1.437
Gross/Weapon System Cost	2.749	22,253	61.171	0.768	40,686	31.260	0.758	53,441	40.493	0.655	65,876	43.150	-	-	-	0.655	65,876	43.150

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Army	Quantity	19,530	3,168	11,448	-	11,448
	Total Obligation Authority	15.005	3.546	7.499	-	7.499
ANG	Quantity	13,833	29,648	29,183	-	29,183
	Total Obligation Authority	10.628	21.655	19.115	-	19.115
AR	Quantity	7,323	20,625	25,245	-	25,245
	Total Obligation Authority	5.627	15.292	16.536	-	16.536
Total: Secondary Distribution	Quantity	40,686	53,441	65,876	-	65,876
	Total Obligation Authority	31.260	40.493	43.150	-	43.150

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: G13501 / Carbine	Item Number / Title [DODIC]: G13503 / M4A1 CARBINE
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1. M4A1 Carbine ^(†)		2014	FN Manufacturing / Columbia	C / FFP	ACC-TACOM, Warren, MI	May 2014	Oct 2015	28,996	0.641	Y		
1. M4A1 Carbine ^(†)		2015	FN Manufacturing / Columbia	C / FFP	ACC-TACOM, Warren, MI	Nov 2014	Oct 2016	17,992	0.640	Y		
1. M4A1 Carbine ^(†)		2015	Colt / West Hartford	C / FFP	ACC-Picatinny, Picatinny, NJ	Sep 2015	Aug 2016	4,839	0.640	Y		
1. M4A1 Carbine ^(†)		2016	FN Manufacturing / Columbia	C / FFP	ACC Picatinny, Picatinny, NJ	Jun 2016	Nov 2016	30,510	0.620	Y		
1. M4A1 Carbine ^(†)		2016	Colt / West Hartford	C / FFP	ACC Picatinny, Picatinny, NJ	Jun 2016	Jul 2017	10,176	0.620	Y		
1. M4A1 Carbine ^(†)		2017	FN Manufacturing / Columbia	C / FFP	ACC Picatinny, Picatinny, NJ	Dec 2016	Sep 2017	26,721	0.666	Y		
1. M4A1 Carbine ^(†)		2017	Colt / West Hartford	C / FFP	ACC Picatinny, Picatinny, NJ	Dec 2016	Sep 2017	26,720	0.666	Y		
1. M4A1 Carbine ^(†)		2018	FN Manufacturing / Columbia	C / FFP	ACC Picatinny, Picatinny, NJ	Dec 2017	Sep 2018	32,938	0.630	Y		
1. M4A1 Carbine ^(†)		2018	Colt / West Hartford	C / FFP	ACC Picatinny, Picatinny, NJ	Dec 2017	Sep 2018	32,938	0.630	Y		

^(†) indicates the presence of a P-21

Remarks:

Projected quantities will be competed between vendors for each delivery order.

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Exhibit P-21, Production Schedule: FY 2018 Army **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 **P-1 Line Item Number / Title:** G13501 / Carbine **Item Number / Title [DODIC]:** G13503 / M4A1 CARBINE

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2016													Fiscal Year 2017													BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2015	BAL D U E A S O F 1 O C T	Calendar Year 2016													Calendar Year 2017													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1. M4A1 Carbine																																	
Prior Years Deliveries: 30101																																	
	1	2014	ARMY	28.996	.000	28.996	.800	.800	.800	.800	.832	1.000	1.000	1.000	1.000	2.000	1.049	1.000	2.125	2.125	2.261	3.826	3.263	3.315							.000		
	1	2014	MC (+)	1.789	.000	1.789	-	-	-	-	.600	.100	.121	.968	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	1	2014	AF (+)	4.597	.000	4.597	-	-	-	-	-	.597	.597	.597	1.000	1.000	.806	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	1	2014	Total	35.382	.000	35.382	.800	.800	.800	.800	1.432	1.697	1.718	2.565	2.000	3.000	1.855	1.000	2.125	2.125	2.261	3.826	3.263	3.315	-	-	-	-	-	-	.000		
	1	2015	ARMY	17.992	.000	17.992	-	-	-	-	-	-	-	-	-	-	-	-	1.600	2.000	2.659	2.225	3.000	1.978	3.530	1.000				.000			
	1	2015	NAVY (+)	1.000	.000	1.000	-	-	-	-	-	-	-	-	-	-	-	-	.100	.200	.200	.200	.300	-	-	-				.000			
	1	2015	MC (+)	.400	.000	.400	-	-	-	-	-	-	-	-	-	-	-	-	.100	.100	.100	.100	-	-	-	-				.000			
	1	2015	AF (+)	.786	.000	.786	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.786	-	-	-				.000			
	1	2015	Total	20.178	.000	20.178	-	-	-	-	-	-	-	-	-	-	-	-	1.800	2.300	2.959	2.525	4.086	1.978	3.530	1.000	-	-	-	.000			
	2	2015	ARMY	4.839	.000	4.839	-	-	-	-	-	-	-	-	-	-	1.500	2.039	1.300											.000			
	1	2016	ARMY	30.510	.000	30.510														2.500	2.800	2.800	2.800	3.000	4.000	4.000	3.310	2.000	1.900	1.400	.000		
	1	2016	AF (+)	.100	.000	.100																			.100						.000		
	1	2016	Total	30.610	.000	30.610														2.500	2.800	2.800	2.800	3.000	4.000	4.100	3.310	2.000	1.900	1.400	.000		
	2	2016	ARMY	10.176	.000	10.176																						2.000	2.000	2.000	4.176		
	2	2016	NAVY (+)	.672	.000	.672																				.100	.172	.100	.100	.200	.000		
	2	2016	MC (+)	.800	.000	.800																								.150	.650		
	2	2016	Total	11.648	.000	11.648																				.100	.172	2.100	2.100	2.350	4.826		
	1	2017	ARMY	26.721	.000	26.721																								1.000	25.721		
	1	2017	AF (+)	.200	.000	.200																									.200		
	1	2017	Total	26.921	.000	26.921																								1.000	25.921		
	2	2017	ARMY	26.720	.000	26.720																								1.300	25.420		
	2	2017	NAVY (+)	.800	.000	.800																									.800		
	2	2017	MC (+)	4.087	.000	4.087																									4.087		
	2	2017	Total	31.607	.000	31.607																								1.300	30.307		
	1	2018	ARMY	32.938	.000	32.938																									32.938		
	1	2018	AF (+)	27.000	.000	27.000																									27.000		
	1	2018	Total	59.938	.000	59.938																									59.938		
	2	2018	ARMY	32.938	.000	32.938																									32.938		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: FY 2018 Army **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 **P-1 Line Item Number / Title:** G13501 / Carbine **Item Number / Title [DODIC]:** G13503 / M4A1 CARBINE

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1. M4A1 Carbine																																	
Prior Years Deliveries: 30101																																	
	1	2014	ARMY	28.996	28.996	.000																							.000				
	1	2014	MC (+)	1.789	1.789	.000																							.000				
	1	2014	AF (+)	4.597	4.597	.000																							.000				
	1	2014	Total	35.382	35.382	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2015	ARMY	17.992	17.992	.000																							.000				
	1	2015	NAVY (+)	1.000	1.000	.000																							.000				
	1	2015	MC (+)	.400	.400	.000																							.000				
	1	2015	AF (+)	.786	.786	.000																							.000				
	1	2015	Total	20.178	20.178	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	2	2015	ARMY	4.839	4.839	.000																							.000				
	1	2016	ARMY	30.510	30.510	.000																							.000				
	1	2016	AF (+)	.100	.100	.000																							.000				
	1	2016	Total	30.610	30.610	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	2	2016	ARMY	10.176	6.000	4.176	2.000	2.176																					.000				
	2	2016	NAVY (+)	.672	.672	.000	-	-																					.000				
	2	2016	MC (+)	.800	.150	.650	.300	.350																					.000				
	2	2016	Total	11.648	6.822	4.826	2.300	2.526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2017	ARMY	26.721	1.000	25.721	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	1.721	.000				
	1	2017	AF (+)	.200	.000	.200	-	-	.100	.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2017	Total	26.921	1.000	25.921	2.400	2.400	2.500	2.500	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	1.721	.000												
	2	2017	ARMY	26.720	1.300	25.420	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	1.420	.000				
	2	2017	NAVY (+)	.800	.000	.800	-	-	.400	.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	2	2017	MC (+)	4.087	.000	4.087	-	-	-	-	.680	.680	.680	.680	.685	.682	-												.000				
	2	2017	Total	31.607	1.300	30.307	2.400	2.400	2.800	2.800	3.080	3.080	3.080	3.080	3.085	3.082	1.420	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2018	ARMY	32.938	.000	32.938			A -	-	-	-	-	-	-	-	-	2.688	2.750	2.750	2.750	2.750	2.750	2.750	2.750	2.750	2.750	2.750	.000				
	1	2018	AF (+)	27.000	.000	27.000			A -	-	-	-	-	-	-	-	-	-	2.250	2.250	2.250	2.250	2.250	2.250	2.250	2.250	2.250	2.250	.000				
	1	2018	Total	59.938	.000	59.938				-	-	-	-	-	-	-	-	2.688	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000				
	2	2018	ARMY	32.938	.000	32.938			A -	-	-	-	-	-	-	-	-	2.440	2.445	2.650	2.650	2.650	2.844	2.844	2.844	2.844	2.844	2.845	.000				
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: FY 2018 Army	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: G13501 / Carbine	Item Number / Title [DODIC]: G13503 / M4A1 CARBINE
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	FN Manufacturing - Columbia	1,000	5,000	8,000	6	3	9	12	6	3	9	12
2	Colt - West Hartford	1,000	3,000	6,000	6	3	9	12	6	3	9	12

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

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

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G04700 / Common Remotely Operated Weapons Station
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,200.051	40.500	25.164	0.750	-	0.750	2.500	20.000	20.000	-	-	2,308.965
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,200.051	40.500	25.164	0.750	-	0.750	2.500	20.000	20.000	-	-	2,308.965
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,200.051	40.500	25.164	0.750	-	0.750	2.500	20.000	20.000	-	-	2,308.965

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

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

Description:

The M153 Common Remotely Operated Weapon Station (CROWS) is an integrated system that provides the capability to remotely operate all standard U.S. Army machine guns (i.e., M2 Heavy Barrel Machine Guns, MK-19 Grenade Machine Guns, M240B/L Medium Machine Guns and M249 Squad Automatic Weapons) and increase lethality solutions (i.e., Javelin, Stinger and 30mm cannon) 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.

Justification:

FY 2018 Base procurement dollars in the amount of \$0.750 million supports the Active Army by facilitating ongoing fielding of the M153 Common Remotely Operated Weapon Station, as well as configuration and program management as the system transitions to sustainment.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles	P-1 Line Item Number / Title: G15325 / Handgun
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	6,422	22,705	-	22,705	68,094	85,774	-	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	2.500	8.326	-	8.326	19.572	22.884	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	2.500	8.326	-	8.326	19.572	22.884	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	2.500	8.326	-	8.326	19.572	22.884	-	-	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	0.389	0.367	-	0.367	0.287	0.267	-	-	Continuing	Continuing

Description:

Currently the M9 Pistol is utilized as the Department of Defense's personal defense weapon. The new XM17 and XM18 Full and Compact Modular Handgun Systems (MHS) will replace both the M9 and M11 handguns. The MHS is a Commercial Off the Shelf/ Non-Developmental Item (COTS/NDI) which delivers a more capable system (weapon, ammo and magazines) consistent with the planned force structure and emerging operational needs of the Army. The MHS addresses M9 shortcomings with improved lethality, target acquisition, ergonomics, reliability, durability, and maintainability. The MHS is ambidextrous capable and accommodates 5th-95th percentile users via modular grips and access to all controls with one hand.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	6,422	11,807	-	11,807	35,409	43,745	-
	Total Obligation Authority	-	2.500	4.330	-	4.330	10.177	11.657	-
ANG	Quantity	-	-	9,082	-	9,082	21,586	28,563	-
	Total Obligation Authority	-	-	3.330	-	3.330	6.201	7.626	-
AR	Quantity	-	-	1,816	-	1,816	11,099	13,466	-
	Total Obligation Authority	-	-	0.666	-	0.666	3.194	3.601	-
Total: Secondary Distribution	Quantity	-	6,422	22,705	-	22,705	68,094	85,774	-
	Total Obligation Authority	-	2.500	8.326	-	8.326	19.572	22.884	-

Justification:

FY2018 Base procurement dollars in the amount of \$8.326 million support the procurement and fielding of 22,705 Modular Handgun Weapon Systems (MHS) consisting of either the Full, Compact or General Officer (GO) varieties, magazines, pouches, cases, conversion and suppressor kits. The MHS is a Commercial Off the Shelf/Non-Developmental Item (COTS/NDI).

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles		P-1 Line Item Number / Title: G15325 / Handgun
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		
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	36.854	-	4.959	2.000	-	2.000	2.040	2.081	7.122	12.165	-	67.221
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	36.854	-	4.959	2.000	-	2.000	2.040	2.081	7.122	12.165	-	67.221
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	36.854	-	4.959	2.000	-	2.000	2.040	2.081	7.122	12.165	-	67.221

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

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

Description:

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

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	4.959	2.000	-	2.000	2.040	2.081	7.122	12.165
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	4.959	2.000	-	2.000	2.040	2.081	7.122	12.165

Justification:

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh		P-1 Line Item Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2018 Base procurement dollars in the amount of \$2.000 million supports the Active Army by procuring 229 MK-19 Grenade Machine Gun MOD 5 Kits and 256 Mounted Machine Gun Optic (MMO). 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. The Mounted Machine Gun Optic (MMO) is a new start in 2018.</p> <p>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.</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1700 / M777 Mods
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	74.826	10.070	33.600	3.985	-	3.985	3.973	3.201	13.290	18.906	-	161.851
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	74.826	10.070	33.600	3.985	-	3.985	3.973	3.201	13.290	18.906	-	161.851
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	74.826	10.070	33.600	3.985	-	3.985	3.973	3.201	13.290	18.906	-	161.851

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

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

Description:

The Lightweight 155mm Howitzer System (LW155) provides direct, reinforcing and general artillery fire support to maneuver forces. The M777A2 is a towed 155mm Howitzer jointly developed by the Army and Marine Corps to replace the M198 Howitzer. The extensive use of titanium in all its major structures makes it 7,000 pounds lighter than the M198 with no sacrifice in range, stability, accuracy or durability. The M777A2's independent suspension, smaller footprint and lower profile increase strategic deployability and tactical mobility. The system uses numerous improvements to enhance reliability and accuracy, and significantly increase system survivability. The system has a Digital Fire Control System (DFCS) that includes an inertial navigation unit with Global Positioning System backup to allow it to self-locate. The DFCS also includes a mission computer, displays and digital communications. Software upgrades incorporating the Enhanced Portable Inductive Artillery Fuse Setter and the Excalibur Platform Integration Kit hardware give the M777A2 the capability to program and fire the Excalibur precision-guided munition. Several ongoing modifications to enhance durability will increase the longevity of the M777A2. The LW155 offers the warfighter improved survivability, lethality, deployability and mobility to counter threat forces.

The Army fielded the M777A2 to their Stryker Brigade Combat Teams, Fires Brigades and the National Guard. The Army began fielding the M777A2 to Infantry Brigade Combat Teams starting in FY 2014 and will continue through FY 2018. The Marine Corps fielded to all active and reserve units, and there have been additional Foreign Military Sales purchases from Australia, Canada, and India.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.042	28.796	2.985	-	2.985	2.651	1.910	7.134
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.028	4.804	1.000	-	1.000	1.322	1.291	6.156
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.070	33.600	3.985	-	3.985	3.973	3.201	13.290

Justification:

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh		P-1 Line Item Number / Title: GZ1700 / M777 Mods
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2018 Base procurement dollars in the amount of \$3.985 million continues to support retrofits of previously contracted Engineering Change Proposals for items such as the Improved Power Conditioning Control Module (I-PCCM), Electronic Thermal Warning Device (ETWD), Hydraulic Power Assist Kit (HyPAK), Muzzle Velocity Sensor System (MVSS), Mission Computer (MSC), Chief of Section Display (CSD) 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 Digital Fire Control 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. Funding will support composite fielding of the LW155 into the Infantry Brigade Combat Teams (IBCTs), an initiative to increase operational force effectiveness and indirect precision fire.</p> <p>"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."</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	827.287	27.566	29.752	31.315	-	31.315	32.551	18.524	11.728	11.618	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	827.287	27.566	29.752	31.315	-	31.315	32.551	18.524	11.728	11.618	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	827.287	27.566	29.752	31.315	-	31.315	32.551	18.524	11.728	11.618	Continuing	Continuing

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

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

Description:

The M4 Carbine Modification Program provides combat optics, a Close Quarters Battle Kit (CQBK), and M4 to M4A1 carbine upgrade kits. The Improved Weapons Cleaning Kit (IWCK) and the Enhanced Performance Magazine (EPM) are both components of the Close Quarters Battle Kit (CQBK). 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 5.56 Enhanced Performance Magazine (EPM) eliminates weapon wear, significantly increases reliability and durability and maintains terminal performance of the M4 and M16 family of weapons. The M4 Product Improvement Program converts all fielded M4 Carbines to M4A1 configuration by adding a heavy barrel assembly, a full auto trigger mechanism and new ambidextrous controls. Also provides additional carbine improvement in system precision and enabler integration.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.783	24.504	23.085	-	23.085	24.298	3.732	11.728
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.372	4.000	6.502	-	6.502	6.416	14.158	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.411	1.248	1.728	-	1.728	1.837	0.634	-
Total: Secondary Distribution	Quantity	-							
	Total Obligation Authority	27.566	29.752	31.315	-	31.315	32.551	18.524	11.728

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GB3007 / M4 PIP (Increase Performance)				- / 827.287	- / 27.566	- / 29.752	- / 31.315	- / -	- / 31.315
P-40	Total Gross/Weapon System Cost				- / 827.287	- / 27.566	- / 29.752	- / 31.315	- / -	- / 31.315

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GB3007 / M4 PIP (Increase Performance)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 32.551	- / 18.524	- / 11.728	- / 11.618	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 2018 Base procurement dollars in the amount of \$31.315 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. FY2018 funding covers labor for the M4 PIP system support modification work order team (MWO) to include the M4 PIP Staging Facility located in Anniston, Alabama, the M4 PIP Installation travel teams, and Tank Automotive Command (TACOM) MWO Support Team. The IWCK has been reconfigured to increase the utility to the Soldier and drive down unit cost. The Individual Kit contains the tools to clean 5.56mm weapon systems, while the Team Kit contain tools to clean 5.56mm, 7.62mm, 9mm, and .45 caliber weapons systems.

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

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	827.287	27.566	29.752	31.315	-	31.315	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	827.287	27.566	29.752	31.315	-	31.315	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	827.287	27.566	29.752	31.315	-	31.315	-	-	-	-	-	-

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

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

Description:

The M4 Carbine Modification Program provides combat optics, a Close Quarters Battle Kit (CQBK), and M4 to M4A1 carbine upgrade kits. The Improved Weapons Cleaning Kit (IWCK) and the Enhanced Performance Magazine (EPM) are both components of the Close Quarters Battle Kit (CQBK). 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 5.56 Enhanced Performance Magazine (EPM) eliminates weapon wear, significantly increases reliability and durability and maintains terminal performance of the M4 and M16 family of weapons. 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.

Close Quarters Battle Kit: 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: Phase I Increment C converts up to 483,000 M4 Carbines to M4A1 Carbines by incorporating the M4A1 heavy barrel assembly, the M4A1 full auto trigger mechanism, and a new ambidextrous selector. The kits enhance current M4 Carbine's sustained rate of fire, ergonomics, reliability, durability, and maintainability. Also provide additional carbine improvement in system precision and enabler integration.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.783	24.504	23.085	-	23.085	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.372	4.000	6.502	-	6.502	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.411	1.248	1.728	-	1.728	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.566	29.752	31.315	-	31.315	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20		P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods
		Modification Number / Title: GB3007 / M4 PIP
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Development Status/Major Development Milestones		
Date	Title	Description
Apr 2014	M4 PIP MWO Field Conversion	M4 PIP Phase 1; MWO Initial Conversion; Ft Riley, KS
Jul 2014	M4 PIP MWO Field Conversion	M4 PIP Phase 1; MWO Field Conversion; Ft Stewart/Hunter Army Airfield, GA
Aug 2014	Contract Awards	M4 PIP Phase 1 (ACC-NJ) Gas Tube recomplete & (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
Oct 2016	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Maine National Guard
Nov 2016	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; New Hampshire National Guard
Dec 2016	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Vermont National Guard; Ft. Benning, GA
Jan 2017	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Texas National Guard
Feb 2017	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Ft. Bliss, TX
Mar 2017	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Joint Base Lewis FT, Lewis, WA
Apr 2017	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Georgia National Guard, GA
May 2017	M4 PIP MWO Field Conversions	M4 PIP Phase 1; MWO Field Conversion; Ft Jackson (Nevada National Guard), SC

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Exhibit P-3a, Individual Modification: FY 2018 Army										Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods					Modification Number / Title: GB3007 / M4 PIP				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: M4/M4A1 CARBINE				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
Procurement														
Modification Item 1 of 3: Combat Optics/Small Arms Fire Control Squad														
B Kits														
Recurring														
Combat Optics	459,113 / 380.289	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Program Management	0 / 11.550	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Test	0 / 0.400	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Integrated Logistical Support	0 / 2.990	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Total Package Fielding	0 / 2.100	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
New Equipment Training	0 / 0.100	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Recurring	- / 397.429	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Combat Optics/Small Arms Fire Control Squad	459,113 / 397.429	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 2 of 3: Close Quarters Battle Kit														
B Kits														
Recurring														
Close Quarters Battle Kit	149,182 / 302.600	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Improved Weapons Cleaning Kit (Indv)	143,159 / 11.364	97,652 / 8.547	62,056 / 5.703	64,788 / 6.251	0 / 0.000	64,788 / 6.251	- / -	- / -	- / -	- / -	- / -	- / -		
Improved Weapons Cleaning Kit (Team)	0 / 0.000	13,251 / 1.348	17,791 / 1.901	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Improved Magazines	119,760 / 1.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Enhanced Performance Magazines	0 / 0.000	0 / 0.000	2,040 / 0.020	166,666 / 2.000	0 / 0.000	166,666 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -		
Program Management	0 / 0.100	0 / 0.827	0 / 0.185	0 / 0.190	0 / 0.000	0 / 0.190	- / -	- / -	- / -	- / -	- / -	- / -		
Engineering Support	0 / 13.560	0 / 0.228	0 / 0.315	0 / 0.317	0 / 0.000	0 / 0.317	- / -	- / -	- / -	- / -	- / -	- / -		
Integrated Logistic Support	0 / 4.720	0 / 0.020	0 / 0.025	0 / 0.025	0 / 0.000	0 / 0.025	- / -	- / -	- / -	- / -	- / -	- / -		
Total Package Fielding	0 / 2.844	0 / 0.100	0 / 0.103	0 / 0.105	0 / 0.000	0 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Recurring	- / 336.188	- / 11.070	- / 8.252	- / 8.888	- / 0.000	- / 8.888	- / -	- / -	- / -	- / -	- / -	- / -		
Subtotal: Close Quarters Battle Kit	412,101 / 336.188	110,903 / 11.070	81,887 / 8.252	231,454 / 8.888	0 / 0.000	231,454 / 8.888	- / -	- / -	- / -	- / -	- / -	- / -		
Modification Item 3 of 3: M4 Product Improvement Program (PIP) Phase I														
B Kits														

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Exhibit P-3a, Individual Modification: FY 2018 Army										Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods					Modification Number / Title: GB3007 / M4 PIP				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: M4/M4A1 CARBINE				Modification Type: Increase Performance				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)					
Recurring														
Hardware M4 PIP Phase 1 (kit equivalent)	483,000 / 73.802	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -		
Hardware PIP Parts (bench stocks,others)	0 / 4.616	0 / 3.116	0 / 3.440	0 / 3.461	0 / 0.000	0 / 3.461	- / -	- / -	- / -	- / -	- / -	- / -		
System Support MWO Team/TACOM	0 / 3.969	0 / 1.275	0 / 1.463	0 / 1.065	0 / 0.000	0 / 1.065	- / -	- / -	- / -	- / -	- / -	- / -		
Program Management	0 / 1.749	0 / 0.827	0 / 0.320	0 / 0.825	0 / 0.000	0 / 0.825	- / -	- / -	- / -	- / -	- / -	- / -		
Engineering Support	0 / 2.675	0 / 0.228	0 / 0.420	0 / 0.479	0 / 0.000	0 / 0.479	- / -	- / -	- / -	- / -	- / -	- / -		
Integrated Logistics Support	0 / 1.811	0 / 0.055	0 / 0.045	0 / 0.045	0 / 0.000	0 / 0.045	- / -	- / -	- / -	- / -	- / -	- / -		
Transportation Costs	0 / 0.770	0 / 0.650	0 / 0.500	0 / 0.550	0 / 0.000	0 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -		
Inspect and Repair USAR 8th ARMY	0 / 0.000	0 / 0.178	0 / 0.000	0 / 0.168	0 / 0.000	0 / 0.168	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 89.392	- / 6.329	- / 6.188	- / 6.593	- / 0.000	- / 6.593	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: M4 Product Improvement Program (PIP) Phase I</i>	483,000 / 89.392	0 / 6.329	0 / 6.188	0 / 6.593	0 / 0.000	0 / 6.593	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Procurement, All Modification Items</i>	1,354,214 / 823.009	110,903 / 17.399	81,887 / 14.440	231,454 / 15.481	0 / 0.000	231,454 / 15.481	- / -	- / -	- / -	- / -	- / -	- / -		
Installation														
<i>Modification Item 3 of 3: M4 Product Improvement Program (PIP) Phase I</i>	46,953 / 4.278	75,425 / 10.167	96,000 / 15.312	101,450 / 15.834	- / -	101,450 / 15.834	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Installation</i>	46,953 / 4.278	75,425 / 10.167	96,000 / 15.312	101,450 / 15.834	- / -	101,450 / 15.834	- / -	- / -	- / -	- / -	- / -	- / -		
Total														
Total Cost (Procurement + Support + Installation)	827.287	27.566	29.752	31.315	-	31.315	-	-	-	-	-	-		

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Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods			Modification Number / Title: GB3007 / M4 PIP	
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:	
Modification Item 1 of 3: Combat Optics/Small Arms Fire Control Squad							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Soldiers						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods		Modification Number / Title: GB3007 / M4 PIP		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 2 of 3: Close Quarters Battle Kit							
Manufacturer Information							
Manufacturer Name: DLA Tailoring Logistic Support(various vendors)				Manufacturer Location: Philadelphia, PA			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 3			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Mar 2016	Jan 2017	Jan 2018				
Delivery Dates	May 2016	Mar 2017	Mar 2018				
Installation Information							
Method of Implementation (Organic): Installed by Soldiers					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 3 of 3: M4 Product Improvement Program (PIP) Phase I

Manufacturer Information

Manufacturer Name: Various Vendors				Manufacturer Location: Various Locations			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Oct 2015	Oct 2016	Oct 2017				
Delivery Dates	Dec 2015	Dec 2016	Dec 2017				

Installation Information

Method of Implementation: Installed by TACOM

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	46,953 / 4.278	75,425 / 10.167	96,000 / 15.312	101,450 / 15.834	- / -	101,450 / 15.834	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	46,953 / 4.278	75,425 / 10.167	96,000 / 15.312	101,450 / 15.834	- / -	101,450 / 15.834	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot		
		Q1	Q2	Q3	Q4																												
In	46,953	18,856	18,856	18,856	18,856	24,000	24,000	24,000	24,000	25,362	25,362	25,362	25,362	25,200	25,200	25,200	25,200	10,513	10,513	10,513	10,515	0	0	0	0	0	0	0	0	0	0	0	462,682
Out	46,953	18,856	18,856	18,856	18,856	24,000	24,000	24,000	24,000	25,362	25,362	25,362	25,362	25,200	25,200	25,200	25,200	10,513	10,513	10,513	10,515	0	0	0	0	0	0	0	0	0	0	0	462,682

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	256.992	43.720	48.582	47.414	-	47.414	37.567	11.703	10.916	3.333	-	460.227
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	256.992	43.720	48.582	47.414	-	47.414	37.567	11.703	10.916	3.333	-	460.227
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	256.992	43.720	48.582	47.414	-	47.414	37.567	11.703	10.916	3.333	-	460.227

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

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

Description:

The 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 provide increased stabilization to minimize weapon bounce during vehicle operations which will increase the probability of hit on target while still allowing fast changes in both azimuth and elevation. Continues engineering studies on the M2A1 Machine Gun components, the M205 Lightweight Tripod to lighten the Soldier's load and improve performance, and the upgrades to the MK93 Mount.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	14.758	16.491	31.414	-	31.414	20.640	4.724	7.916	3.333
ANG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	17.302	17.731	6.000	-	6.000	16.927	2.922	-	-
AR	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	11.660	14.360	10.000	-	10.000	-	4.057	3.000	-
Total: Secondary Distribution	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	43.720	48.582	47.414	-	47.414	37.567	11.703	10.916	3.333

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh **P-1 Line Item Number / Title:** GB4000 / M2 50 Cal Machine Gun MODS

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0604601A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GB4000 / M2 Mods (Increase performance)				- / 256.992	- / 43.720	- / 48.582	- / 47.414	- / -	- / 47.414
P-40	Total Gross/Weapon System Cost				- / 256.992	- / 43.720	- / 48.582	- / 47.414	- / -	- / 47.414

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GB4000 / M2 Mods (Increase performance)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 37.567	- / 11.703	- / 10.916	- / 3.333	- / -	- / 460.227

*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 2018 Base procurement dollars in the amount of \$47.414 million supports the Active Army, the National Guard and the Reserve by purchasing 1,173 M205 Lightweight Tripods, 4,681 MK93 Improvement Kits and 1,400 Mounted Machine Gun Optics. 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 stabilization and a link deflector 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 improve performance, and the upgrades to the MK93 Mount. The Mounted Machine Gun Optic (MMO) is a new start in 2018.

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

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	256.992	43.720	48.582	47.414	-	47.414	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	256.992	43.720	48.582	47.414	-	47.414	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	256.992	43.720	48.582	47.414	-	47.414	-	-	-	-	-	-

(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 M2A1 Quick Change Barrel (QCB) Kit provides enhancements for the .50 Caliber M2 Heavy Barrel Machine Gun to provide the Soldier with the ability to quickly change the barrel without the need to reset the headspace and timing and reduce the visible muzzle flash. In a dismounted role, the M2/MK19 Machine Guns are mounted on the M3 Tripod or the M205 Lightweight Tripod. The 34 pound M205 Tripod reduces the Soldier burden by 16 pounds, as the current M3 Tripod weighs 50 pounds (including traverse and elevation mechanisms and pintle). The M205 Tripod provides integral traverse and elevation mechanisms for easier, more accurate target engagement; adjustable traverse limit stop for night time missions; and a new lightweight pintle design. The Mounted Machine Gun Optic (MMO) will provide increased accuracy by equipping Medium/Heavy Machine Guns, including the M2/M2A1, with a magnified optic. The MMO will significantly improve target identification and engagement at extended ranges while retaining the capability of short range, transition fire. The MK93 is the primary mount used to interface the M2/M2A1 with all Army vehicles and ground mounts. Improvements being implemented include rotary dampers to minimize weapon bounce during vehicle operations which will increase the probability of hit on target while still allowing fast changes in both direction and elevation. Continues engineering studies on the M2A1 Machine Gun components, the M205 Lightweight Tripod to lighten the Soldier's load and the upgrades to the MK93 Mount.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.758	16.491	31.414	-	31.414	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.302	17.731	6.000	-	6.000	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.660	14.360	10.000	-	10.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	43.720	48.582	47.414	-	47.414	-	-	-	-

Development Status/Major Development Milestones

Date	Title	Description
Aug 2011	Production Verification Test	XM205 Tripod
Aug 2011	Operational Test	XM205 Tripod

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Exhibit P-3a, Individual Modification: FY 2018 Army	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Development Status/Major Development Milestones

Date	Title	Description
Aug 2012	Type Classification - Standard	M205 Tripod
Oct 2013	First Unit Equipped	M205 Tripod

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: Machine Gun, CAL .50 M2 and MK-19 Grenade Machine Gun	Modification Type: Increase performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											

Procurement

Modification Item 1 of 4: M2A1 Quick Change Barrel Kit												
B Kits												
Recurring												
Hardware Quick Change Barrel Kits	3,800 / 198.085	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Engineering Support	0 / 6.534	0 / 1.385	0 / 1.150	0 / 1.150	0 / 0.000	0 / 1.150	- / -	- / -	- / -	- / -	- / -	- / -
Program Management Support	0 / 1.626	0 / 0.750	0 / 0.570	0 / 0.828	0 / 0.000	0 / 0.828	- / -	- / -	- / -	- / -	- / -	- / -
Integrated Logistics Support	0 / 0.950	0 / 0.330	0 / 0.330	0 / 0.330	0 / 0.000	0 / 0.330	- / -	- / -	- / -	- / -	- / -	- / -
Fielding	0 / 0.800	0 / 0.600	0 / 0.300	0 / 0.300	0 / 0.000	0 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -
New Equipment Training	0 / 0.770	0 / 0.700	0 / 0.300	0 / 0.400	0 / 0.000	0 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -
First Destination Transportation	0 / 1.441	0 / 0.300	0 / 0.100	0 / 0.100	0 / 0.000	0 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -
Engineering Studies	0 / 0.066	0 / 2.071	0 / 1.378	0 / 1.870	0 / 0.000	0 / 1.870	- / -	- / -	- / -	- / -	- / -	- / -
Testing	0 / 0.800	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Anniston Packaging	0 / 0.700	0 / 1.422	0 / 1.226	0 / 2.453	0 / 0.000	0 / 2.453	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 211.772	- / 7.558	- / 5.354	- / 7.431	- / 0.000	- / 7.431	- / -					
Subtotal: M2A1 Quick Change Barrel Kit	3,800 / 211.772	0 / 7.558	0 / 5.354	0 / 7.431	0 / 0.000	0 / 7.431	- / -					

Modification Item 2 of 4: Tripods												
B Kits												
Recurring												
M3 Tripods	1,305 / 8.500	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
M205 Tripod	1,277 / 27.518	12,397 / 21.656	10,072 / 18.637	1,173 / 6.055	0 / 0.000	1,173 / 6.055	- / -	- / -	- / -	- / -	- / -	- / -
Engineering Support	0 / 1.637	0 / 0.694	0 / 3.700	0 / 0.850	0 / 0.000	0 / 0.850	- / -	- / -	- / -	- / -	- / -	- / -
Program Management Support	0 / 0.766	0 / 6.349	0 / 3.262	0 / 4.459	0 / 0.000	0 / 4.459	- / -	- / -	- / -	- / -	- / -	- / -
Integrated Logistics Support	0 / 0.350	0 / 0.250	0 / 0.275	0 / 0.150	0 / 0.000	0 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -
New Equipment Training	0 / 0.407	0 / 0.260	0 / 0.325	0 / 0.425	0 / 0.000	0 / 0.425	- / -	- / -	- / -	- / -	- / -	- / -
Fielding	0 / 0.465	0 / 0.100	0 / 0.275	0 / 0.400	0 / 0.000	0 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -
Engineering Study	0 / 0.175	0 / 0.400	0 / 0.693	0 / 0.700	0 / 0.000	0 / 0.700	- / -	- / -	- / -	- / -	- / -	- / -
M205 Tripod - Rock Island Arsenal (RIA)	0 / 0.000	0 / 0.000	350 / 3.493	117 / 3.000	0 / 0.000	117 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -
Engineering Change Proposal	0 / 0.000	0 / 0.000	0 / 1.750	0 / 0.400	0 / 0.000	0 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -
Testing (First Article)	0 / 1.780	0 / 0.000	0 / 0.000	0 / 0.750	0 / 0.000	0 / 0.750	- / -	- / -	- / -	- / -	- / -	- / -
First Destination Transportation	0 / 0.300	0 / 0.199	0 / 0.209	0 / 0.050	0 / 0.000	0 / 0.050	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: FY 2018 Army		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: Machine Gun, CAL .50 M2 and MK-19 Grenade Machine Gun	Modification Type: Increase performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prototype Integration Facility	0 / 0.000	0 / 0.225	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 41.898	- / 30.133	- / 32.619	- / 17.239	- / 0.000	- / 17.239	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: TriPods	2,582 / 41.898	12,397 / 30.133	10,422 / 32.619	1,290 / 17.239	0 / 0.000	1,290 / 17.239	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 3 of 4: MK93 Improvements												
B Kits												
Recurring												
MK93 Improvements	0 / 0.000	0 / 0.000	3,445 / 5.482	4,681 / 8.340	0 / 0.000	4,681 / 8.340	- / -	- / -	- / -	- / -	- / -	- / -
Engineering Support	0 / 0.200	0 / 0.510	0 / 1.000	0 / 0.550	0 / 0.000	0 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -
Program Management Support	0 / 0.000	0 / 2.244	0 / 0.977	0 / 1.851	0 / 0.000	0 / 1.851	- / -	- / -	- / -	- / -	- / -	- / -
Integrated Logistics Support	0 / 0.000	0 / 0.000	0 / 0.100	0 / 0.125	0 / 0.000	0 / 0.125	- / -	- / -	- / -	- / -	- / -	- / -
Material Work Order (ANAD)	0 / 0.000	0 / 0.650	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Material Work Order (TACOM)	0 / 0.000	0 / 0.000	0 / 0.400	0 / 0.625	0 / 0.000	0 / 0.625	- / -	- / -	- / -	- / -	- / -	- / -
Testing (First Article)	0 / 0.000	0 / 0.000	0 / 0.350	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Testing	0 / 0.500	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Engineering Studies	0 / 0.600	0 / 0.925	0 / 1.450	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
First Destination Transportation	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.020	0 / 0.000	0 / 0.020	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 1.300	- / 4.329	- / 9.759	- / 11.511	- / 0.000	- / 11.511	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: MK93 Improvements	0 / 1.300	0 / 4.329	3,445 / 9.759	4,681 / 11.511	0 / 0.000	4,681 / 11.511	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 4 of 4: Mounted Machine Gun Optic												
B Kits												
Recurring												
Mounted MG Optic	0 / 0.000	0 / 0.000	0 / 0.000	1,400 / 8.436	0 / 0.000	1,400 / 8.436	- / -	- / -	- / -	- / -	- / -	- / -
Engineering Support	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.404	0 / 0.000	0 / 0.404	- / -	- / -	- / -	- / -	- / -	- / -
Program Management Support	0 / 0.000	0 / 0.000	0 / 0.000	0 / 1.038	0 / 0.000	0 / 1.038	- / -	- / -	- / -	- / -	- / -	- / -
Integrated Logistics Support	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.080	0 / 0.000	0 / 0.080	- / -	- / -	- / -	- / -	- / -	- / -
Fielding	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.300	0 / 0.000	0 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -
New Equipment Training	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.125	0 / 0.000	0 / 0.125	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 0.000	- / 0.000	- / 0.000	- / 10.383	- / 0.000	- / 10.383	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Mounted Machine Gun Optic	0 / 0.000	0 / 0.000	0 / 0.000	1,400 / 10.383	0 / 0.000	1,400 / 10.383	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	6,382 / 254.970	12,397 / 42.020	13,867 / 47.732	7,371 / 46.564	0 / 0.000	7,371 / 46.564	- / -	- / -	- / -	- / -	- / -	- / -
Installation												

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Exhibit P-3a, Individual Modification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: Machine Gun, CAL .50 M2 and MK-19 Grenade Machine Gun **Modification Type:** Increase performance **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Modification Item 1 of 4: M2A1 Quick Change Barrel Kit	10,325 / 2.022	9,600 / 1.700	5,400 / 0.850	5,400 / 0.850	- / -	5,400 / 0.850	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	10,325 / 2.022	9,600 / 1.700	5,400 / 0.850	5,400 / 0.850	- / -	5,400 / 0.850	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	256.992	43.720	48.582	47.414	-	47.414	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 4: M2A1 Quick Change Barrel Kit

Manufacturer Information

Manufacturer Name: General Dynamics Ordnance Tactical Systems	Manufacturer Location: Saco, ME
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Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8
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Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Overhaul/conversion

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)											
Prior Years	10,325 / 2.022	9,600 / 1.700	5,400 / 0.850	5,400 / 0.850	- / -	5,400 / 0.850	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	10,325 / 2.022	9,600 / 1.700	5,400 / 0.850	5,400 / 0.850	- / -	5,400 / 0.850	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4											
In	10,325	2,400	2,400	2,400	2,400	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,796
Out	10,325	2,400	2,400	2,400	2,400	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,796

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
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		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 2 of 4: Tripods							
Manufacturer Information							
Manufacturer Name: Capco, Inc.				Manufacturer Location: Grand Junction, CO			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 9			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Mar 2016	Mar 2017	Mar 2018				
Delivery Dates	Dec 2016	Dec 2017	Dec 2018				
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 3 of 4: MK93 Improvements							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 8			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Apr 2017	Apr 2018				
Delivery Dates		Dec 2017	Dec 2018				
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Army					Date: May 2017		
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 4 of 4: Mounted Machine Gun Optic							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 10			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Mar 2018				
Delivery Dates			Jan 2019				
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	214.241	1.190	1.179	3.339	-	3.339	3.959	4.526	3.444	-	-	231.878
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	214.241	1.190	1.179	3.339	-	3.339	3.959	4.526	3.444	-	-	231.878
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	214.241	1.190	1.179	3.339	-	3.339	3.959	4.526	3.444	-	-	231.878

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

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

Description:

The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight machine gun that can be utilized in either the automatic rifle role or light machine gun role. Various system enhancements have been identified that improve the use of this weapon system. These include the addition of a feedtray cover rail and forward rail assemblies. The addition of these rails provides a Military-Standard-1913 interface allowing the mounting of standard military optics and other target designation devices directly to the machine gun. Improved components include a collapsible buttstock, bipod, drop-in mount cradle and 200-round ammunition pack. Other items being procured to enhance Soldier performance include design modifications to the lightweight ground mount, short barrel, short barrel blank firing adapter, improved sling assembly and improved extractor and op-rod kits.

The M197 Vehicle Mount is the current standard used to mount the M249 SAW and M240B Medium Machine Gun to most vehicle platforms. A system improvement (drop in mount cradle) adds a link/spent case deflector and ammo handling system to provide capability upgrades addressing issues that Soldiers have identified as shortcomings of the current system.

The M192 is the primary ground mount for the M240B/L and M249 machine guns. Based on recent combat experience, improvements are required to address identified shortcomings in the design and to enhance operational performance.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.190	1.179	3.339	-	3.339	3.959	4.526	3.444	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.190	1.179	3.339	-	3.339	3.959	4.526	3.444	-

Justification:

FY 2018 Base procurement dollars in the amount of \$3.339 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 Feedback Support

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh		P-1 Line Item Number / Title: GZ1290 / M249 SAW Machine Gun MODS
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		
<p>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.</p> <p>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.</p> <p>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.</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1300 / M240 Medium Machine Gun MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	163.109	1.708	1.784	4.577	-	4.577	7.002	7.156	6.292	5.406	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	163.109	1.708	1.784	4.577	-	4.577	7.002	7.156	6.292	5.406	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	163.109	1.708	1.784	4.577	-	4.577	7.002	7.156	6.292	5.406	Continuing	Continuing

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

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

Description:

The M240B/L Medium Machine Gun is an infantry version of the M240 Armored Machine Gun used to replace the M60 Series Machine Gun in Light Infantry, Mechanized Infantry, Armor, Rangers, Special Forces, and select Combat Engineer units. Since the initial fielding of the M240B, various system enhancements have been identified that further improve the use of this weapon system by increasing functionality and performance capabilities, while improving training capability. These include adopting a forward rail system to mount ancillary sighting/night vision equipment, an accessory ammunition pouch, a spare barrel bag to transport and store overheated barrels, and an improved Lightweight Ground Mount. Additional enhancements include improved bipod, sling, short barrel, improved barrel, combat ammo pack, improved hydraulic buffer, drop-in mount cradle, design modifications to the Lightweight Ground Mount, collapsible buttstock and Mounted Machine Gun Optic. These enhancements are applicable to both the M240B and M240L. M240L reduces the weight of the existing M240B by approximately 5 pounds.

The M197 Vehicle Mount is the current standard used to mount the M249 Squad Automatic Weapon and M240B to most vehicle platforms. A system improvement (drop in mount cradle) adds a link/spent case deflector and ammo handling system to provide capability upgrades addressing issues that Soldiers have identified as shortcomings of the current system. The M192 is the primary ground mount for the M240B/L and M249 machineguns. Based on recent combat experience, improvements are required to address identified shortcomings in the design and to enhance operational performance.

Fielding of the M240H Machine Gun requires replacement/upgrade of the helicopter mounts/cradles to accommodate the replacement M240H. This upgrade enhances the performance of the armament subsystems the M240H is assigned to thereby increasing the overall survivability of the aircraft platform. Improved mounts are required to be fielded to both the UH-60 and CH-47 platforms.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.708	1.784	4.577	-	4.577	7.002	7.156	6.292	5.406
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.708	1.784	4.577	-	4.577	7.002	7.156	6.292	5.406

Justification:

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh		P-1 Line Item Number / Title: GZ1300 / M240 Medium Machine Gun MODS
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2018 Base procurement dollars in the amount of \$4.577 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 15 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.</p> <p>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.</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GZ1500 / Sniper Rifles Modifications
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	38.605	0.980	0.971	1.488	-	1.488	3.284	1.488	2.481	2.450	-	51.747
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	38.605	0.980	0.971	1.488	-	1.488	3.284	1.488	2.481	2.450	-	51.747
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	38.605	0.980	0.971	1.488	-	1.488	3.284	1.488	2.481	2.450	-	51.747

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

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

Description:

Program to conduct investigative engineering studies, procure modifications or conversions of sniper weapons and related system components, Advanced Sniper Accessory Kit (ASAK) items, M151 Spotting Scope System, Tactical Tripod Kit (TTK) components, sniper optics, laser range finders, and ballistic compensating 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 Interface 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 intelligent rails, 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 seek to 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 ballistic prediction systems. Upgrades also support sniper/spotter mission collaboration with information sharing of targets and better situational awareness.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.980	0.971	1.488	-	1.488	3.284	1.488	2.481	2.450
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.980	0.971	1.488	-	1.488	3.284	1.488	2.481	2.450

Justification:

FY 2018 Base procurement dollars in the amount of \$1.488 million supports the Active Army through engineering studies and 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), Tripod Weapon Cradle, and the Accessory Interface Mounting (AIM) kit, respectively. Continued support for modifications of the M110 SASS, M2010 ESR, M107 LRSR Modifications and the Squad Designated Marksman.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh		P-1 Line Item Number / Title: GZ1500 / Sniper Rifles Modifications
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>These studies, modifications, and upgrades provide a more full-spectrum and versatile 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 sniper optics and any ancillary equipment enhancements that can include performing engineering studies to investigate the proposed enhancements and also to procure samples for evaluation.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GC0401 / M119 Modifications
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	308.213	23.417	37.243	12.678	-	12.678	7.065	7.604	2.282	-	-	398.502
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	308.213	23.417	37.243	12.678	-	12.678	7.065	7.604	2.282	-	-	398.502
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	308.213	23.417	37.243	12.678	-	12.678	7.065	7.604	2.282	-	-	398.502

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

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

Description:

The M119A3 Towed Howitzer provides direct fire support for the Infantry Brigade Combat Teams (IBCT). Funding in the M119 Modifications budget supports the application of modernization system enhancements and includes the integration of digital fire control components previously type classified on other weapons. The Digital Fire Control System (DFCS) includes an Inertial Navigation Unit (INU), Fire Control Computer, Gunner's Display, Power Supply, and the associated cables and brackets to mount the system on the M119A2Howitzer. The digitized M119 Howitzer will be capable of firing precision fuzes that may be developed in the future, which will enhance the accuracy of conventional 105mm ammunition. Other 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; Training Devices modification products including M119A3 desktop personal computer trainer, M119A3 desktop crew trainer, and M119A3 computer based trainer; Resiliency and Software Assurance Modification which will ensure a robust Global Positioning System (GPS) capability within the digital fire control system of the M119 howitzer; and radio modification which will provide for the integration of a new Army software defined radio into the digital fire control system of M119 howitzer. Modifications will be retrofit on current howitzer fleet and program management support to the M119A3 Howitzer will be provided.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.050	34.785	12.678	-	12.678	4.197	4.518	1.382	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.367	2.458	-	-	-	2.868	3.086	0.900	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	23.417	37.243	12.678	-	12.678	7.065	7.604	2.282	-

Justification:

FY 2018 Base procurement dollars in the amount of \$12.678 million supports the retrofit and composite fielding activities of previously purchased Recoil System Capability Package, Digital Fire Control System (DFCS) 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 Training Devices modification provides for

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh		P-1 Line Item Number / Title: GC0401 / M119 Modifications
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Training Aids, Devices, Simulators and Simulations (TADSS) products for use in training artillerymen and maintainers in the field and at school houses. These products will greatly increase proficiency, safety and mission fire accuracy and are supported by the Army user community.		
"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: G02100 / Mortar Modification
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	115.182	6.300	12.118	3.998	-	3.998	4.000	-	-	-	-	141.598
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	115.182	6.300	12.118	3.998	-	3.998	4.000	-	-	-	-	141.598
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	115.182	6.300	12.118	3.998	-	3.998	4.000	-	-	-	-	141.598

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

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

Description:

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, Handle and Firing Mechanism improvement for the M224A1 mortar, Range Indicators to include 60mm HE Enhanced Fragment (EF) M1061 markings, and the M8A1 patrolling baseplate for the 60mm M224A1 mortar.

Justification:

Mortar System Modifications are a war reserve items used both in training and combat. The FY 2018 request supports annual training and builds a war reserve inventory in accordance with the Army procurement goals. FY 2018 Base procurement dollars in the amount of \$3.998 million supports the procurement of 250 improved Handle and Firing Mechanisms (H&FM) for use with the M224A1 lightweight 60mm mortar, 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.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh	P-1 Line Item Number / Title: GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	199.366	3.737	3.157	2.219	-	2.219	5.968	5.482	3.771	3.548	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	199.366	3.737	3.157	2.219	-	2.219	5.968	5.482	3.771	3.548	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	199.366	3.737	3.157	2.219	-	2.219	5.968	5.482	3.771	3.548	Continuing	Continuing

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

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

Description:

This program procures modifications of small arms with a cost less than \$5.000 million to include the procurement of accessory components for individual weapons, crew served weapons, sniper weapons, handguns, shotguns, optics, protective lens coatings, mounting systems and mount improvements, bipods, tripods and tripod improvements/upgrades. Optic sights allow the Soldier to identify and engage targets at longer ranges more effectively than standard iron sights. Mounting systems provide a means to mount accessory components to weapons and mount weapon systems to platforms. The M197 Vehicle Mount is the current standard used to mount the M249 and M240B machine guns to most vehicle platforms. A system improvement will add a link/spent case deflector and ammo handling system to provide capability upgrades addressing issues that Soldiers have identified as shortcomings of the current system. This will be accomplished thru a Maintenance Work Order (MWO). Bipods and tripods are used to stabilize and maneuver a weapon to target. The M205 is a lightweight tripod for dismounted M2/M2A1/MK19 machine guns; it weighs 16 lbs. (32%) less than the currently used M3 Tripod. An engineering study is on-going to improve performance of this lightweight tripod through a Maintenance Work Order. 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.

Justification:

FY 2018 Base procurement dollars in the amount of \$2.219 million supports the Active Army by procuring 201 M197 Modification Work Order (MWO) Kits, completes the M192 Engineering Study, buys 476 M192 MWO Kits to modify fielded systems. 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.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GL3200 / Items Less Than \$5.0m (WOCV-WTCV)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	127.576	3.408	2.331	5.075	-	5.075	1.235	1.697	2.978	3.000	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	127.576	3.408	2.331	5.075	-	5.075	1.235	1.697	2.978	3.000	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	127.576	3.408	2.331	5.075	-	5.075	1.235	1.697	2.978	3.000	Continuing	Continuing

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

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

Description:

Program provides for the procurement of standard and non-standard small arms to include auxiliary components such as combat optics, protective lens coatings for optics, fire controls, suppressors, powered/intelligent rails, weapon mounts/platforms, and adaptors to meet urgent needs or initial buys. Weapons and auxiliary components procured under this budget activity in prior years consist of MK48 Machine Guns, M9 Pistols and associated Basic Issue Items (BII), M500 Mossberg Shotguns, 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.

Justification:

FY 2018 Base procurement dollars in the amount of \$5.075 million supports the Active Army by providing funding for stand-alone shotguns, pistols, associated BII, M150 and M68 optics, initial spares, 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. Commerical Off the Shelf (COTS) items to be procured include the Non-Standard linked 30MM cannon for evaluation. a 30MM cannon is a new start in FY 2018.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GC0050 / Production Base Support (WOCV-WTCV)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	456.993	9.027	-	0.992	-	0.992	3.313	3.376	3.471	3.565	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	456.993	9.027	-	0.992	-	0.992	3.313	3.376	3.471	3.565	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	456.993	9.027	-	0.992	-	0.992	3.313	3.376	3.471	3.565	Continuing	Continuing

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

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

Description:

This program provides funding to the Army Test and Evaluation Command (ATEC) to establish, modernize, expand or replace test facilities used in production testing of Weapons and Tracked Combat Vehicles and their components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidance to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at Aberdeen Test Center (ATC), Aberdeen Proving Ground, MD; White Sands Test Center (WSTC), White Sands Missile Range, NM and Yuma Test Center (YTC), Yuma Proving Ground, AZ.

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 for 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 Rock Island Arsenal, IL; Watervliet Arsenal, NY; and General Dynamics-Armaments and Technical Products, Saco, ME. The Layaway of Industrial Facilities (LIF) and Maintenance of Laid-away Industrial Facilities (MLIF) funding supports unique and necessary equipment at Watervliet Arsenal, NY. This program also provides funding for the Arsenal Support Program Initiative.

Justification:

FY 2018 Base procurement dollars in the amount of \$0.992 million support the following: At ATC, replaces and upgrades video cameras, video recorders, digital video tracking systems and telemetry systems used to assess fire control system performance in combat vehicles. At WSTC, provides upgrades to Directed Energy, High Power Electromagnetic Pulse and Lightning effects test simulators to provide a realistic threat environment to test survivability and vulnerability of combat systems. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GC0075 / Industrial Preparedness
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	121.416	0.304	-	-	-	-	-	-	-	-	-	121.720
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	121.416	0.304	-	-	-	-	-	-	-	-	-	121.720
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	121.416	0.304	-	-	-	-	-	-	-	-	-	121.720

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

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

Description:

This program provides for Maintenance of Laid-away Industrial Facilities (MLIF), the maintenance of laid away portions of active weapons production plants, and the storage, protection, and maintenance of laid away Government-owned equipment being stored on-site at Government-owned plants. The funding represents the storage costs for laid away production items from Watervliet Arsenal (WVA) and Rock Island Arsenal (RIA). The funds also pay for storage, facilities/equipment maintenance, and inspection of Industrial Plant Equipment (IPE), laid away machine tools, gages, special measuring equipment, tooling and fixturing stored at WVA and RIA.

Justification:

There is no FY 2018 funding.
 In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GC0076 / Small Arms Equipment (Soldier Enh Prog)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	109.306	2.392	3.155	1.573	-	1.573	1.654	1.688	1.721	1.753	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	109.306	2.392	3.155	1.573	-	1.573	1.654	1.688	1.721	1.753	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	109.306	2.392	3.155	1.573	-	1.573	1.654	1.688	1.721	1.753	Continuing	Continuing

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

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

Description:

The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Acts for Fiscal Years 1990 and 1991. The purpose of the SEP is to provide an impetus for increasing the combat effectiveness of our Army Infantryman/Soldiers through the procurement of lighter, more lethal weapons, and improved equipment including lighter, more comfortable load-bearing equipment, field gear, survivability items, communications equipment, navigational aids and training capabilities. SEP WTCV funding provides the means of procuring lighter, more lethal infantry weapons and various types of equipment designed to increase Soldiers' survivability and lethality.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.392	3.155	1.573	-	1.573	1.654	1.688	1.721	1.753
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.392	3.155	1.573	-	1.573	1.654	1.688	1.721	1.753

Justification:

FY2018 Base procurement dollars in the amount of \$1.573 million supports the procurement of 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."

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment & Facilities	P-1 Line Item Number / Title: GC9500 / CLOSED ACCOUNT ADJUSTMENTS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	28.772	1.878	-	-	-	-	-	-	-	-	-	30.650
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	28.772	1.878	-	-	-	-	-	-	-	-	-	30.650
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	28.772	1.878	-	-	-	-	-	-	-	-	-	30.650

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

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

Description:

Funds payment of valid invoices, claims, and adjustments against the closed-year Weapons and Tracked Combat Vehicles (WTCV) appropriation.

The funds in this account are required to cover payment of valid invoices on cancelled unliquidated obligations, claims, and obligation adjustments for fiscal years which have been closed in accordance with provisions of P.L. 101-510 and 31 USC 1553 as stated below:

"Subject to the provisions of paragraph (2), after the closing of an account under section 1552(a) or 1555 of this title, obligations and adjustments to obligations that would have been properly chargeable to that account, both as to purpose and in amount, before closing and that are not otherwise chargeable to any current appropriation account of the agency may be charged to any current appropriation account of the agency available for the same purpose."

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.878	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.878	-	-	-	-	-	-	-	-

Justification:

There is no FY 2018 funding.