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**Department of Defense
Fiscal Year (FY) 2019 Budget Estimates**

February 2018



Army

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

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Army • Budget Estimates FY 2019 • Procurement

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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, \$5,596,301 to remain available for obligation until September 30, 2021.

The following Justification Books were prepared at a cost of \$226,413: 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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 (Dollars in Thousands)

25 Jan 2018

Appropriation	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PB Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO
Procurement of W&TCV, Army	2,828,746	2,214,315	2,214,315	457,162
Total Department of the Army	2,828,746	2,214,315	2,214,315	457,162

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25 Jan 2018

Appropriation	FY 2018 Total PB Requests+ with CR Adj OCO	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req Emergency
Procurement of W&TCV, Army	457,162			
Total Department of the Army	457,162			

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25 Jan 2018

<u>Appropriation</u>	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency
Procurement of W&TCV, Army	2,671,477		2,671,477
Total Department of the Army	2,671,477		2,671,477

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(Dollars in Thousands)

25 Jan 2018

<u>Appropriation</u>	<u>FY 2019 Base</u>	<u>FY 2019 OCO</u>	<u>FY 2019 Total</u>
Procurement of W&TCV, Army	4,489,118	1,107,183	5,596,301
Total Department of the Army	4,489,118	1,107,183	5,596,301

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 (Dollars in Thousands)

25 Jan 2018

Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PB Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO
01. Tracked Combat Vehicles	2,542,398	2,216,241	2,216,241	1,191,139
02. Weapons and Other Combat Vehicles	286,348	207,367	207,367	
20. Undistributed		-209,293	-209,293	-733,977
Total Procurement of W&TCV, Army	2,828,746	2,214,315	2,214,315	457,162

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Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2018 Total PB Requests+ with CR Adj OCO	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req Emergency
01. Tracked Combat Vehicles	1,191,139			
02. Weapons and Other Combat Vehicles				
20. Undistributed	-733,977			
Total Procurement of W&TCV, Army	457,162			

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Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency
01. Tracked Combat Vehicles	3,407,380		3,407,380
02. Weapons and Other Combat Vehicles	207,367		207,367
20. Undistributed	-943,270		-943,270
Total Procurement of W&TCV, Army	2,671,477		2,671,477

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Appropriation: Procurement of W&TCV, Army

Budget Activity	FY 2019 Base	FY 2019 OCO	FY 2019 Total
01. Tracked Combat Vehicles	4,118,297	1,083,713	5,202,010
02. Weapons and Other Combat Vehicles	370,821	23,470	394,291
20. Undistributed			
Total Procurement of W&TCV, Army	4,489,118	1,107,183	5,596,301

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25 Jan 2018

Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tracked Combat Vehicles											
Tracked Combat Vehicles											
1	Bradley Program	B	17	72,800					60	200,000	U
2	Armored Multi Purpose Vehicle (AMPV)	A			42	193,715	42	193,715	65	253,903	U
3	Stryker Vehicle			71,680							U
Modification of Tracked Combat Vehicles											
4	Stryker (MOD)	A		82,681		97,552		97,552			U
5	Stryker Upgrade	A	70	418,561							U
6	Bradley Program (MOD)	A		265,333		444,851		444,851		30,000	U
7	M109 FOV Modifications	A		63,138		64,230		64,230			U
8	Paladin Integrated Management (PIM)	A	48	584,089	59	646,413	59	646,413	12	125,736	U
9	Improved Recovery Vehicle (M88A2 Hercules)	A	18	91,963	16	72,402	16	72,402			U
10	Assault Bridge (Mod)			9,415		5,855		5,855			U
11	Assault Breacher Vehicle	A		2,928	7	34,221	7	34,221			U
12	M88 FOV MODS	A		8,685		4,826		4,826			U
13	Joint Assault Bridge	A	14	64,752	27	128,350	27	128,350			U
14	M1 Abrams Tank (MOD)	A		492,044		248,826		248,826		138,700	U
15	Abrams Upgrade Program	A	24	276,829	20	275,000	20	275,000	36	442,800	U

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tracked Combat Vehicles											
Tracked Combat Vehicles											
1	Bradley Program	B	60	200,000							U
2	Armored Multi Purpose Vehicle (AMPV)	A	65	253,903							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		30,000							U
7	M109 FOV Modifications	A									U
8	Paladin Integrated Management (PIM)	A	12	125,736							U
9	Improved Recovery Vehicle (M88A2 Hercules)	A									U
10	Assault Bridge (Mod)										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		138,700							U
15	Abrams Upgrade Program	A	36	442,800							U

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tracked Combat Vehicles									
Tracked Combat Vehicles									
1	Bradley Program	B	60	200,000			60	200,000	U
2	Armored Multi Purpose Vehicle (AMPV)	A	107	447,618			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		474,851				474,851	U
7	M109 FOV Modifications	A		64,230				64,230	U
8	Paladin Integrated Management (PIM)	A	71	772,149			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		387,526				387,526	U
15	Abrams Upgrade Program	A	56	717,800			56	717,800	U

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tracked Combat Vehicles									
Tracked Combat Vehicles									
1	Bradley Program	B			61	205,000	61	205,000	U
2	Armored Multi Purpose Vehicle (AMPV)	A	131	479,801	66	230,359	197	710,160	U
3	Stryker Vehicle								U
Modification of Tracked Combat Vehicles									
4	Stryker (MOD)	A		287,490				287,490	U
5	Stryker Upgrade	A	3	21,900			3	21,900	U
6	Bradley Program (MOD)	A		625,424		50,000		675,424	U
7	M109 FOV Modifications	A		26,482				26,482	U
8	Paladin Integrated Management (PIM)	A	30	351,802	6	67,000	36	418,802	U
9	Improved Recovery Vehicle (M88A2 Hercules)	A	26	110,500	12	42,354	38	152,854	U
10	Assault Bridge (Mod)			2,120				2,120	U
11	Assault Breacher Vehicle	A	12	62,407			12	62,407	U
12	M88 FOV MODS	A		4,517				4,517	U
13	Joint Assault Bridge	A	30	142,255			30	142,255	U
14	M1 Abrams Tank (MOD)	A		927,600		34,000		961,600	U
15	Abrams Upgrade Program	A	95	1,075,999	40	455,000	135	1,530,999	U

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c e
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Support Equipment & Facilities											
16	Production Base Support (TCV-WTCV)			37,500							U
Total Tracked Combat Vehicles				2,542,398		2,216,241		2,216,241		1,191,139	
Budget Activity 02: Weapons and Other Combat Vehicles											
Weapons & Other Combat Vehicles											
17	Integrated Air Burst Weapon System Family	A		7,064							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	GUN AUTOMATIC 30MM M230	A									U
21	Machine Gun, Cal .50 M2 Roll	A									U
22	Mortar Systems			30,742		21,452		21,452			U
23	XM320 Grenade Launcher Module (GLM)	A		3,062		4,524		4,524			U
24	Compact Semi-Automatic Sniper System	A									U
25	Carbine	A		40,493		43,150		43,150			U
26	Small Arms - Fire Control	B									U
27	Common Remotely Operated Weapons Station			25,164		750		750			U
28	Handgun	A		2,000		8,326		8,326			U
Mod of Weapons and Other Combat Veh											
29	MK-19 Grenade Machine Gun Mods			4,959		2,000		2,000			U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		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			1,191,139								
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	GUN AUTOMATIC 30MM M230	A									U
21	Machine Gun, Cal .50 M2 Roll	A									U
22	Mortar Systems										U
23	XM320 Grenade Launcher Module (GLM)	A									U
24	Compact Semi-Automatic Sniper System	A									U
25	Carbine	A									U
26	Small Arms - Fire Control	B									U
27	Common Remotely Operated Weapons Station										U
28	Handgun	A									U
Mod of Weapons and Other Combat Veh											
29	MK-19 Grenade Machine Gun Mods										U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Support Equipment & Facilities									
16	Production Base Support (TCV-WTCV)								U
Total Tracked Combat Vehicles			3,407,380				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	GUN AUTOMATIC 30MM M230	A							U
21	Machine Gun, Cal .50 M2 Roll	A							U
22	Mortar Systems			21,452			21,452		U
23	XM320 Grenade Launcher Module (GLM)	A		4,524			4,524		U
24	Compact Semi-Automatic Sniper System	A							U
25	Carbine	A		43,150			43,150		U
26	Small Arms - Fire Control	B							U
27	Common Remotely Operated Weapons Station			750			750		U
28	Handgun	A		8,326			8,326		U
Mod of Weapons and Other Combat Veh									
29	MK-19 Grenade Machine Gun Mods			2,000			2,000		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Support Equipment & Facilities									
16	Production Base Support (TCV-WTCV)								U
Total Tracked Combat Vehicles			4,118,297		1,083,713		5,202,010		
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		1,955		126	2,081		U
19	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S	A		23,345			23,345		U
20	GUN AUTOMATIC 30MM M230	A		7,434			7,434		U
21	Machine Gun, Cal .50 M2 Roll	A		22,330			22,330		U
22	Mortar Systems			12,470		11,842	24,312		U
23	XM320 Grenade Launcher Module (GLM)	A		697			697		U
24	Compact Semi-Automatic Sniper System	A		46,236			46,236		U
25	Carbine	A		69,306		1,800	71,106		U
26	Small Arms - Fire Control	B		7,929			7,929		U
27	Common Remotely Operated Weapons Station			35,968		3,378	39,346		U
28	Handgun	A		48,251			48,251		U
Mod of Weapons and Other Combat Veh									
29	MK-19 Grenade Machine Gun Mods			1,684			1,684		U

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25 Jan 2018

Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	M777 Mods	A		33,600		3,985		3,985			U
31	M4 Carbine Mods	A		27,752		31,315		31,315			U
32	M2 50 Cal Machine Gun Mods	B		48,582		47,414		47,414			U
33	M249 Saw Machine Gun Mods			1,179		3,339		3,339			U
34	M240 Medium Machine Gun Mods	A		1,784		4,577		4,577			U
35	Sniper Rifles Modifications			1,963		1,488		1,488			U
36	M119 Modifications	A		37,243		12,678		12,678			U
37	Mortar Modification	A		12,118		3,998		3,998			U
38	Modifications Less Than \$5.0m (WOCV-WTCV)			3,157		2,219		2,219			U
Support Equipment & Facilities											
39	Items Less Than \$5.0m (WOCV-WTCV)			2,331		5,075		5,075			U
40	Production Base Support (WOCV-WTCV)					992		992			U
41	Small Arms Equipment (Soldier Enh Prog)			3,155		1,573		1,573			U
Total Weapons and Other Combat Vehicles				286,348		207,367		207,367			
Budget Activity 20: Undistributed											
Undistributed											
42	Adj to Match Continuing Resolution	A				-209,293		-209,293		-733,977	U
Total Undistributed						-209,293		-209,293		-733,977	
Total Procurement of W&TCV, Army				2,828,746		2,214,315		2,214,315		457,162	

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	M777 Mods	A									U
31	M4 Carbine Mods	A									U
32	M2 50 Cal Machine Gun Mods	B									U
33	M249 Saw Machine Gun Mods										U
34	M240 Medium Machine Gun Mods	A									U
35	Sniper Rifles Modifications										U
36	M119 Modifications	A									U
37	Mortar Modification	A									U
38	Modifications Less Than \$5.0m (WOCV-WTCV)										U
Support Equipment & Facilities											
39	Items Less Than \$5.0m (WOCV-WTCV)										U
40	Production Base Support (WOCV-WTCV)										U
41	Small Arms Equipment (Soldier Enh Prog)										U
Total Weapons and Other Combat Vehicles											
Budget Activity 20: Undistributed											
Undistributed											
42	Adj to Match Continuing Resolution	A		-733,977							U
Total Undistributed				-733,977							
Total Procurement of W&TCV, Army				457,162							

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25 Jan 2018

Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	M777 Mods	A		3,985			3,985		U
31	M4 Carbine Mods	A		31,315			31,315		U
32	M2 50 Cal Machine Gun Mods	B		47,414			47,414		U
33	M249 Saw Machine Gun Mods			3,339			3,339		U
34	M240 Medium Machine Gun Mods	A		4,577			4,577		U
35	Sniper Rifles Modifications			1,488			1,488		U
36	M119 Modifications	A		12,678			12,678		U
37	Mortar Modification	A		3,998			3,998		U
38	Modifications Less Than \$5.0m (WOCV-WTCV)			2,219			2,219		U
Support Equipment & Facilities									
39	Items Less Than \$5.0m (WOCV-WTCV)			5,075			5,075		U
40	Production Base Support (WOCV-WTCV)			992			992		U
41	Small Arms Equipment (Soldier Enh Prog)			1,573			1,573		U
Total Weapons and Other Combat Vehicles				207,367			207,367		
Budget Activity 20: Undistributed									
Undistributed									
42	Adj to Match Continuing Resolution	A		-943,270			-943,270		U
Total Undistributed				-943,270			-943,270		
Total Procurement of W&TCV, Army				2,671,477			2,671,477		

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Appropriation: 2033A Procurement of W&TCV, Army

Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	M777 Mods	A		3,086				3,086	U
31	M4 Carbine Mods	A		31,575				31,575	U
32	M2 50 Cal Machine Gun Mods	B		21,600		4,920		26,520	U
33	M249 Saw Machine Gun Mods			3,924				3,924	U
34	M240 Medium Machine Gun Mods	A		6,940		7		6,947	U
35	Sniper Rifles Modifications			2,747				2,747	U
36	M119 Modifications	A		5,704				5,704	U
37	Mortar Modification	A		3,965				3,965	U
38	Modifications Less Than \$5.0m (WOCV-WTCV)			5,577				5,577	U
Support Equipment & Facilities									
39	Items Less Than \$5.0m (WOCV-WTCV)			3,174		1,397		4,571	U
40	Production Base Support (WOCV-WTCV)			3,284				3,284	U
41	Small Arms Equipment (Soldier Enh Prog)			1,640				1,640	U
Total Weapons and Other Combat Vehicles				370,821		23,470		394,291	
Budget Activity 20: Undistributed									
Undistributed									
42	Adj to Match Continuing Resolution	A							U
Total Undistributed									
Total Procurement of W&TCV, Army				4,489,118		1,107,183		5,596,301	

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

Appropriation 2033A: Procurement of W&TCV, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	10	2897G80718	BRADLEY PROGRAM.....	1
2	01	10	2944G80819	Armored Multi Purpose Vehicle (AMPV).....	10
3	01	10	7180G85100	Stryker Vehicle.....	18
4	01	20	0230GM0100	Stryker (Mod).....	20
5	01	20	0363G85200	Stryker Upgrade.....	42
6	01	20	1678GZ2400	Bradley Program (MOD).....	52
7	01	20	2072GA0400	M109 FOV Modifications.....	71
8	01	20	2073GZ0410	Paladin Integrated Management (PIM).....	95
9	01	20	3700GA0570	Improved Recovery Vehicle (M88A2 HERCULES).....	106
10	01	20	4520GZ3250	Assault Bridge (Mod).....	115
11	01	20	4872G82925	Assault Breacher Vehicle.....	117
12	01	20	5129G80571	M88 FOV MODS.....	125
13	01	20	5225GZ3001	Joint Assault Bridge.....	126
14	01	20	6406GA0700	M1 Abrams Tank (MOD).....	135
15	01	20	6500GA0750	Abrams Upgrade Program.....	152
16	01	30	5960GA0050	Production Base Support (TCV-WTCV).....	161

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Appropriation 2033A: Procurement of W&TCV, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
17	02	10	1696G16101	Integrated Air Burst Weapon System Family.....	162
18	02	10	2472G13000	M240 Medium Machine Gun (7.62mm).....	163
19	02	10	3736G13101	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM.....	165
20	02	10	4368G13800	GUN AUTOMATIC 30MM M230.....	170
21	02	10	5000GB2000	Machine Gun, Cal .50 M2 Roll.....	175
22	02	10	6580G02200	Mortar Systems.....	182
23	02	10	8181G01501	XM320 Grenade Launcher Module (GLM).....	191
24	02	10	8194G01507	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM.....	193
25	02	10	8201G13501	Carbine.....	198
26	02	10	8212G17200	Small Arms - Fire Control.....	208
27	02	10	8310G04700	Common Remotely Operated Weapons Station.....	214
28	02	10	8635G15325	Handgun.....	222
29	02	20	3000GB3000	MK-19 Grenade Machine Gun MODS.....	228
30	02	20	3005GZ1700	M777 Mods.....	230
31	02	20	3010GB3007	M4 Carbine Mods.....	232
32	02	20	3015GB4000	M2 50 Cal Machine Gun MODS.....	242

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Appropriation 2033A: Procurement of W&TCV, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
33	02	20	3020GZ1290	M249 SAW Machine Gun MODS.....	252
34	02	20	3030GZ1300	M240 Medium Machine Gun MODS.....	254
35	02	20	3181GZ1500	Sniper Rifles Modifications.....	259
36	02	20	3640GC0401	M119 Modifications.....	261
37	02	20	7054G02100	Mortar Modification.....	277
38	02	20	9280GC0925	Modifications Less Than \$5.0m (WOCV-WTCV).....	278
39	02	30	1862GL3200	Items Less Than \$5.0m (WOCV-WTCV).....	292
40	02	30	3270GC0050	Production Base Support (WOCV-WTCV).....	294
41	02	30	4010GC0076	Small Arms Equipment (Soldier Enh Prog).....	296

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

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Abrams Upgrade Program	6500GA0750	15	01	20.....	152
Armored Multi Purpose Vehicle (AMPV)	2944G80819	2	01	10.....	10
Assault Breacher Vehicle	4872G82925	11	01	20.....	117
Assault Bridge (Mod)	4520GZ3250	10	01	20.....	115
BRADLEY PROGRAM	2897G80718	1	01	10.....	1
Bradley Program (MOD)	1678GZ2400	6	01	20.....	52
COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	8194G01507	24	02	10.....	193
Carbine	8201G13501	25	02	10.....	198
Common Remotely Operated Weapons Station	8310G04700	27	02	10.....	214
GUN AUTOMATIC 30MM M230	4368G13800	20	02	10.....	170
Handgun	8635G15325	28	02	10.....	222
Improved Recovery Vehicle (M88A2 HERCULES)	3700GA0570	9	01	20.....	106
Integrated Air Burst Weapon System Family	1696G16101	17	02	10.....	162
Items Less Than \$5.0m (WOCV-WTCV)	1862GL3200	39	02	30.....	292
Joint Assault Bridge	5225GZ3001	13	01	20.....	126
M1 Abrams Tank (MOD)	6406GA0700	14	01	20.....	135
M109 FOV Modifications	2072GA0400	7	01	20.....	71

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
M119 Modifications	3640GC0401	36	02	20.....	261
M2 50 Cal Machine Gun MODS	3015GB4000	32	02	20.....	242
M240 Medium Machine Gun (7.62mm)	2472G13000	18	02	10.....	163
M240 Medium Machine Gun MODS	3030GZ1300	34	02	20.....	254
M249 SAW Machine Gun MODS	3020GZ1290	33	02	20.....	252
M4 Carbine Mods	3010GB3007	31	02	20.....	232
M777 Mods	3005GZ1700	30	02	20.....	230
M88 FOV MODS	5129G80571	12	01	20.....	125
MK-19 Grenade Machine Gun MODS	3000GB3000	29	02	20.....	228
MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	3736G13101	19	02	10.....	165
Machine Gun, Cal .50 M2 Roll	5000GB2000	21	02	10.....	175
Modifications Less Than \$5.0m (WOCV-WTCV)	9280GC0925	38	02	20.....	278
Mortar Modification	7054G02100	37	02	20.....	277
Mortar Systems	6580G02200	22	02	10.....	182
Paladin Integrated Management (PIM)	2073GZ0410	8	01	20.....	95
Production Base Support (TCV-WTCV)	5960GA0050	16	01	30.....	161
Production Base Support (WOCV-WTCV)	3270GC0050	40	02	30.....	294
Small Arms - Fire Control	8212G17200	26	02	10.....	208
Small Arms Equipment (Soldier Enh Prog)	4010GC0076	41	02	30.....	296
Sniper Rifles Modifications	3181GZ1500	35	02	20.....	259

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
Stryker (Mod)	0230GM0100	4	01	20.....	20
Stryker Upgrade	0363G85200	5	01	20.....	42
Stryker Vehicle	7180G85100	3	01	10.....	18
XM320 Grenade Launcher Module (GLM)	8181G01501	23	02	10.....	191

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 2897G80718 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	17	60	-	61	61	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	72.800	200.000	-	205.000	205.000	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	72.800	200.000	-	205.000	205.000	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	72.800	200.000	-	205.000	205.000	-	-	-	-	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>)	-	4,282.353	3,333.333	-	3,360.656	3,360.656	-	-	-	-	Continuing	Continuing

Description:

The Bradley Program upgrades the existing Bradley M2A2 ODS and 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 Deterrence Initiative (EDI). Improvements to the Bradley M7A2 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	17	60	0	61	61	-	-	-
	Total Obligation Authority	72.800	200.000	0.000	205.000	205.000	-	-	-
Total:	Quantity	17	60	0	61	61	-	-	-
Secondary Distribution	Total Obligation Authority	72.800	200.000	-	205.000	205.000	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 2897G80718 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G80723 / Bradley Program (M2A4)	P-5a, P-21			- / -	17 / 72.800	60 / 200.000	- / -	61 / 205.000	61 / 205.000
P-40	Total Gross/Weapon System Cost				- / -	17 / 72.800	60 / 200.000	- / -	61 / 205.000	61 / 205.000

*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 2019 Overseas Contingency Operations (OCO) Procurement funding in the amount of \$205.000 million funds the upgrade of sixty-one (61) M7A2 ODS-SA vehicle to the M2A4/M7A4 configuration to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). 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.

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

AAO: 3344

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10		P-1 Line Item Number / Title: 2897G80718 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)	-	17	60	-	61	61
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	72.800	200.000	-	205.000	205.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	72.800	200.000	-	205.000	205.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	72.800	200.000	-	205.000	205.000

(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>)	-	4,282.353	3,333.333	-	3,360.656	3,360.656

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 ^(†)	-	-	-	2,270.294	17	38.595	1,767.183	60	106.031	-	-	-	1,781.672	61	108.682	1,781.672	61	108.682
TPF (ASL, BII, OPNET, FMNET)	-	-	-	-	-	4.316	-	-	11.858	-	-	-	-	-	12.154	-	-	12.154
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	42.911	-	-	117.889	-	-	0.000	-	-	120.836	-	-	120.836
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	42.911	-	-	117.889	-	-	0.000	-	-	120.836	-	-	120.836
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	26.816	-	-	73.670	-	-	-	-	-	75.512	-	-	75.512
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	26.816	-	-	73.670	-	-	0.000	-	-	75.512	-	-	75.512
Support - Program Management Cost																		
Government Management	-	-	-	-	-	2.516	-	-	6.911	-	-	-	-	-	7.084	-	-	7.084
Contractor Management	-	-	-	-	-	0.557	-	-	1.530	-	-	-	-	-	1.568	-	-	1.568
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	3.073	-	-	8.441	-	-	0.000	-	-	8.652	-	-	8.652
Gross/Weapon System Cost	-	-	-	4,282.353	17	72.800	3,333.333	60	200.000	-	-	-	3,360.656	61	205.000	3,360.656	61	205.000

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2897G80718 / BRADLEY PROGRAM	Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	17	60	0	61	61
	Total Obligation Authority	72.800	200.000	0.000	205.000	205.000
Total:	Quantity	17	60	-	61	61
Secondary Distribution	Total Obligation Authority	72.800	200.000	-	205.000	205.000

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2897G80718 / BRADLEY PROGRAM	Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)
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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
Manufacturing ^(†)		2017	BAE / York, PA	C / FPIF	TACOM, Warren, MI	Mar 2018	Sep 2019	17	2,270.290			
Manufacturing ^(†)		2018	BAE / York, PA	Option / FPIF	TACOM, Warren, MI	Sep 2018	Sep 2020	60	1,767.180			
Manufacturing ^(†)	✓	2019	BAE / York, PA	Option / FPIF	TACOM, Warren, MI	Jul 2019	Sep 2021	61	1,781.670			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2897G80718 / BRADLEY PROGRAM	Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Manufacturing																															
	1	2017	ARMY	17	0	17																								2	15
	1	2018	ARMY	60	0	60																									60
✓	1	2019	ARMY	61	0	61																									61
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2897G80718 / 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 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	2017	ARMY	17	2	15	1	1	1	1	1	1	2	1	2	2	2												0		
	1	2018	ARMY	60	0	60	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	0		
✓	1	2019	ARMY	61	0	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	56		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2897G80718 / BRADLEY PROGRAM	Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)
----------------------------------------------------------------------------------	----------------------------------------------------------------------	------------------------------------------------------------------------

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2022														Fiscal Year 2023														B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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	2017	ARMY	17	17	0																								0					
	1	2018	ARMY	60	60	0																								0					
✓	1	2019	ARMY	61	5	56	6	5	5	5	5	5	5	5	5	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					

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Exhibit P-21, Production Schedule: PB 2019 Army									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10					P-1 Line Item Number / Title: 2897G80718 / BRADLEY PROGRAM					Item Number / Title [DODIC]: G80723 / Bradley Program (M2A4)			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	18	0	18	18	36	0	10	26	36	

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:
2944G80819 / 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: 471

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	107	131	66	197	130	204	139	139	1,981	2,897
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	447.618	479.801	230.359	710.160	486.557	826.316	599.540	621.139	9,179.670	12,871.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	447.618	479.801	230.359	710.160	486.557	826.316	599.540	621.139	9,179.670	12,871.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	447.618	479.801	230.359	710.160	486.557	826.316	599.540	621.139	9,179.670	12,871.000
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	4,183.346	3,662.603	3,490.288	3,604.873	3,742.746	4,050.569	4,313.237	4,468.626	4,633.857	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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	107	131	66	197	130	204	139	139
	Total Obligation Authority	-	447.618	479.801	230.359	710.160	486.557	826.316	599.540	621.139
Total: Secondary Distribution	Quantity	-	107	131	66	197	130	204	139	139
	Total Obligation Authority	-	447.618	479.801	230.359	710.160	486.557	826.316	599.540	621.139

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:
 2944G80819 / 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: 471

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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			- / -	- / -	107 / 447.618	131 / 479.801	66 / 230.359	197 / 710.160
P-40	Total Gross/Weapon System Cost				- / -	- / -	107 / 447.618	131 / 479.801	66 / 230.359	197 / 710.160

*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:
 FY2019 Base Procurement dollars in the amount of \$479.801 million procures 131 Armored Multi-Purpose Vehicles (AMPVs). This represents the second year of Low Rate Initial Production (LRIP-2). In accordance with the Full Funding Policy, the entire procurement cost of the LRIP-2 assets is being budgeted in the fiscal year in which long lead time items are initially procured. Accordingly, the FY2019 procurement cost covers all contractor efforts related to recurring production and production support, government efforts related to award of the LRIP-2 contract, and testing/training/fielding support related to the 131 LRIP-2 vehicles.

FY2019 OCO procurement dollars in the amount of \$230.359 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support European Deterrence Initiative (EDI). Funding will procure 66 AMPVs platforms, select Mission Equipment Packages, associated training and fielding support, and additional oversight/testing efforts not required for the OCO 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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2944G80819 / 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:
---------------------------------------------------------	------------------------

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	107	131	66	197
Gross/Weapon System Cost (\$ in Millions)	-	-	447.618	479.801	230.359	710.160
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	447.618	479.801	230.359	710.160
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	447.618	479.801	230.359	710.160

(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)	-	-	4,183.346	3,662.603	3,490.288	3,604.873

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 ^(†)	-	-	-	-	-	-	3,705.664	107	396.506	3,123.481	131	409.176	3,200.394	66	211.226	3,149.249	197	620.402
Engineering Change Orders	-	-	-	-	-	-	-	-	9.019	-	-	12.491	-	-	4.169	-	-	16.660
Sys Eng / Prog Mgmt (Government)	-	-	-	-	-	-	-	-	2.670	-	-	6.164	-	-	1.355	-	-	7.519
Sys Test & Evaluation (Government)	-	-	-	-	-	-	-	-	3.205	-	-	2.715	-	-	1.015	-	-	3.730
Training Devices	-	-	-	-	-	-	-	-	2.184	-	-	13.596	-	-	1.109	-	-	14.705
Total Package Fielding (TPF)	-	-	-	-	-	-	-	-	15.892	-	-	18.119	-	-	11.485	-	-	29.604
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	429.476	-	-	462.261	-	-	230.359	-	-	692.620
Non Recurring Cost																		
Production Facilitization	-	-	-	-	-	-	-	-	18.142	-	-	17.540	-	-	-	-	-	17.540
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	18.142	-	-	17.540	-	-	-	-	-	17.540
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	447.618	-	-	479.801	-	-	230.359	-	-	710.160
Gross/Weapon System Cost	-	-	-	-	-	-	4,183.346	107	447.618	3,662.603	131	479.801	3,490.288	66	230.359	3,604.873	197	710.160

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2944G80819 / 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:** _____

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	107	131	66	197
	Total Obligation Authority	-	447.618	479.801	230.359	710.160
Total: Secondary Distribution	Quantity	-	107	131	66	197
	Total Obligation Authority	-	447.618	479.801	230.359	710.160

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10			P-1 Line Item Number / Title: 2944G80819 / 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Vehicle Manufacturing - Contractor ^(†)		2018	BAE / York, PA	Option / FPIF	Warren, MI	Jan 2018	Sep 2019	107	3,705.660			
Vehicle Manufacturing - Contractor ^(†)		2019	BAE / York, PA	Option / FPIF	Warren, MI	Mar 2019	Sep 2020	197	3,149.250			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10										P-1 Line Item Number / Title: 2944G80819 / Armored Multi Purpose Vehicle (AMPV)										Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)				

Cost Elements <i>(Units in Each)</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			
Vehicle Manufacturing - Contractor																																	
	1	2018	ARMY	107	0	107				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	104		
	1	2019	ARMY	197	0	197																									197		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10										P-1 Line Item Number / Title: 2944G80819 / 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	S E P			
Vehicle Manufacturing - Contractor																																	
	1	2018	ARMY	107	3	104	4	6	8	8	10	10	10	4	14	15	15													0			
	1	2019	ARMY	197	0	197	-	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	17	17	17	17	17	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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10		P-1 Line Item Number / Title: 2944G80819 / 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 2019	1-8-5 For 2019	MAX For 2019	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	3	7	18	0	4	20	24	0	6	18	24

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:
7180G85100 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	15,153.373	71.680	-	-	-	-	-	-	-	-	-	15,225.053
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	15,153.373	71.680	-	-	-	-	-	-	-	-	-	15,225.053
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	15,153.373	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>)	100,353.464	-	-	-	-	-	-	-	-	-	-	100,828.166

Description:

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

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

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

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

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

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

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

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

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

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 7180G85100 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	71.680	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	71.680	-	-	-	-	-	-	-	-

Justification:

FY 2019 Base procurement dollars are in the amount of \$0.000 million.

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:**
 0230GM0100 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	635.846	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	635.846	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	635.846	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	7,660.795	-	-	981.195	-	981.195	1,188.214	1,314.265	1,866.366	1,930.660	Continuing	Continuing

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 Double V Hull (DVH) A1 Engineering Change Proposal (ECP) (formerly ECP 1) engine, alternator, suspension, and in-vehicle network upgrades into the Stryker Double "V" Hull (DVH) fleet, and the retrofit of Lethality Engineering Change Proposals (ECPs) (formerly ECP 2) lethality upgrades to enhance the suppressive fire and armored vehicle engagement capabilities of the Army's Stryker Brigade Combat Teams (SBCTs).

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 0230GM0100 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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)		A		- / 635.846	- / 82.681	- / 97.552	- / 287.490	- / -	- / 287.490
P-40	Total Gross/Weapon System Cost				- / 635.846	- / 82.681	- / 97.552	- / 287.490	- / -	- / 287.490

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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)		A		- / 465.780	- / 570.391	- / 544.979	- / 500.041	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 465.780	- / 570.391	- / 544.979	- / 500.041	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 2019 Base procurement dollars in the amount \$287.490 million supports the application of multiple fleet-wide modifications to address Fire Support Vehicle (FSV) Mission Equipment Package 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; provides Interim Contractor Logistics Support (ICLS) for a 30mm Infantry Carrier Vehicle Dragoon (ICVD) to address a March 2015 United States Army Europe (USAREUR) Urgent Operational Needs Statement (ONS), initiates conversions of Double V Hull (DVH) A1 Engineering Change Proposal (ECP) (formerly ECP 1) upgrades onto Stryker DVH, and supports retrofit of Lethality Engineering Change Proposals (ECPs) (formerly ECP 2) lethality upgrades across the Stryker Family of Vehicles. Supports the Active Army.

Double V Hull (DVH) A1 ECP (formerly ECP 1) is a new start in FY 2019.

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

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	635.846	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	635.846	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	635.846	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	7,660.795	-	-	981.195	-	981.195	1,188.214	1,314.265	1,866.366	1,930.660	Continuing	Continuing

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, In Vehicle Network (IVN), Mounted LRAS 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 modifications and obsolescence issues with Command, Control, Communications, Computer, and Intelligence (C4I) components of the Stryker Family of Vehicles (FoV). Efforts include Handheld, Manpack, Small Form Fit Radio (HMS), Nett Warrior upgrades, Blue-Force Tracking 2 (BFT-2), Warfighter Information Network-Tactical (WIN-T) Next Generation, and the Stryker In-Vehicle Network 2 (IVN2). Also including software efforts for Cyber Security upgrades, Vehicle Software Updates, and improved embedded training.

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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

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

Double V Hull (DVH) A1 Engineering Change Proposal (ECP) (formerly ECP 1): DVH A1 ECP 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. DVH A1 ECP conversion will be executed by a joint contractor and depot team in a production-like environment.

Lethality Engineering Change Proposals (ECPs) (formerly ECP 2): Lethality ECPs 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).

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

Program Management Support: Program management, engineering, and logistics support necessary to execute Stryker modifications to include Fleet Modifications, C4I Obsolescence and Next Generation items, 30mm ICVD ONS, DVH A1 ECP (beginning FY 2019), and Lethality ECPs (beginning FY 2019) .

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 13: Mobile Gun System (MGS) Full Materiel Release(FMR)													
A Kits													
Recurring													
Hardware	851 / 38.676	- / -	139 / 0.960	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	851 / 38.676	- / -	139 / 0.960	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Non-Recurring													
Fielding	- / 14.159	- / 6.251	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Engineer Support	- / 11.310	- / -	- / 0.964	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Test	- / 2.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Non-Recurring	- / 28.119	- / 6.251	- / 0.964	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Mobile Gun System (MGS) Full Materiel Release(FMR)	851 / 66.795	- / 6.251	139 / 1.924	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Modification Item 2 of 13: Fleet Modifications													
A Kits													
Recurring													
Fielding	- / 0.892	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Hardware	3,338 / 45.075	328 / 10.521	155 / 3.675	49 / 3.470	- / -	49 / 3.470	30 / 2.232	57 / 5.693	170 / 11.165	355 / 16.264	Continuing	Continuing	
Subtotal: Recurring	3,338 / 45.967	328 / 10.521	155 / 3.675	49 / 3.470	- / -	49 / 3.470	30 / 2.232	57 / 5.693	170 / 11.165	355 / 16.264	Continuing	Continuing	
Non-Recurring													
Engineer Support	- / 24.522	- / 8.245	- / 7.859	- / 0.458	- / -	- / 0.458	- / 0.125	- / 0.127	- / -	- / -	Continuing	Continuing	
Test	- / 10.350	- / 1.689	- / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Non-Recurring	- / 34.872	- / 9.934	- / 8.509	- / 0.458	- / -	- / 0.458	- / 0.125	- / 0.127	- / -	- / -	Continuing	Continuing	
Subtotal: Fleet Modifications	3,338 / 80.839	328 / 20.455	155 / 12.184	49 / 3.928	- / -	49 / 3.928	30 / 2.357	57 / 5.820	170 / 11.165	355 / 16.264	Continuing	Continuing	
Modification Item 3 of 13: Video Display Electronic Terminal (VDET)													
A Kits													
Recurring													
Hardware	664 / 19.521	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	664 / 19.521	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Non-Recurring													
Engineer Support	- / 0.043	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Test	- / 0.136	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / 0.179	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Video Display Electronic Terminal (VDET)</i>	664 / 19.700	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Modification Item 4 of 13: C4I Obsolescence and Next Generation Items													
A Kits													
Recurring													
Hardware	475 / 12.352	789 / 4.888	- / -	- / -	- / -	- / -	- / -	- / -	118 / 1.360	803 / 6.518	Continuing	Continuing	
<i>Subtotal: Recurring</i>	475 / 12.352	789 / 4.888	- / -	- / -	- / -	- / -	- / -	- / -	118 / 1.360	803 / 6.518	Continuing	Continuing	
Non-Recurring													
Engineer Support	- / 16.252	- / 7.232	- / 5.845	- / -	- / -	- / -	- / 17.289	- / 9.659	- / -	- / -	Continuing	Continuing	
Test	- / 0.189	- / -	- / 0.468	- / -	- / -	- / -	- / 6.809	- / 20.003	- / 15.397	- / 1.282	Continuing	Continuing	
Fielding	- / 0.180	- / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / 16.621	- / 7.262	- / 6.313	- / -	- / -	- / -	- / 24.098	- / 29.662	- / 15.397	- / 1.282	Continuing	Continuing	
<i>Subtotal: C4I Obsolescence and Next Generation Items</i>	475 / 28.973	789 / 12.150	- / 6.313	- / 0.000	- / -	- / 0.000	- / 24.098	- / 29.662	118 / 16.757	803 / 7.800	Continuing	Continuing	
Modification Item 5 of 13: Block Mod Retrofit													
A Kits													
Recurring													
Hardware	2,336 / 34.697	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	2,336 / 34.697	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Block Mod Retrofit</i>	2,336 / 34.697	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Modification Item 6 of 13: Test Fleet Maintenance													
A Kits													
Recurring													
Labor (Contractor)	- / 20.141	- / 5.990	- / 7.009	- / 6.376	- / -	- / 6.376	- / 6.497	- / 6.620	- / 6.779	- / 6.921	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 20.141	- / 5.990	- / 7.009	- / 6.376	- / -	- / 6.376	- / 6.497	- / 6.620	- / 6.779	- / 6.921	Continuing	Continuing	
<i>Subtotal: Test Fleet Maintenance</i>	- / 20.141	- / 5.990	- / 7.009	- / 6.376	- / -	- / 6.376	- / 6.497	- / 6.620	- / 6.779	- / 6.921	Continuing	Continuing	
Modification Item 7 of 13: Retrofit Planning and Site Management													
A Kits													
Recurring													
Labor (Contractor)	- / 20.659	- / 8.143	- / 7.753	- / 7.534	- / -	- / 7.534	- / 5.801	- / 5.940	- / 6.059	- / 6.186	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
<i>Subtotal: Recurring</i>	- / 20.659	- / 8.143	- / 7.753	- / 7.534	- / -	- / 7.534	- / 5.801	- / 5.940	- / 6.059	- / 6.186	Continuing	Continuing	
<i>Subtotal: Retrofit Planning and Site Management</i>	- / 20.659	- / 8.143	- / 7.753	- / 7.534	- / -	- / 7.534	- / 5.801	- / 5.940	- / 6.059	- / 6.186	Continuing	Continuing	
Modification Item 8 of 13: Training Aids, Devices, Simulators and Simulations													
A Kits													
Recurring													
Hardware	- / 0.283	- / -	18 / 24.389	5 / 18.677	- / -	5 / 18.677	709 / 15.129	355 / 11.899	355 / 16.390	406 / 21.474	Continuing	Continuing	
Life Cycle Management Plan	- / 22.686	- / 4.439	- / 7.651	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 22.969	- / 4.439	18 / 32.040	5 / 18.677	- / -	5 / 18.677	709 / 15.129	355 / 11.899	355 / 16.390	406 / 21.474	Continuing	Continuing	
<i>Subtotal: Training Aids, Devices, Simulators and Simulations</i>	- / 22.969	- / 4.439	18 / 32.040	5 / 18.677	- / -	5 / 18.677	709 / 15.129	355 / 11.899	355 / 16.390	406 / 21.474	Continuing	Continuing	
Modification Item 9 of 13: Double V Hull (DVH) A1 ECP													
A Kits													
Recurring													
Hardware	- / -	- / -	- / -	52 / 106.141	- / -	52 / 106.141	96 / 194.559	141 / 272.456	90 / 190.958	62 / 151.480	Continuing	Continuing	
Fielding	- / -	- / -	- / -	- / 18.549	- / -	- / 18.549	- / 148.966	- / 173.970	- / 151.587	- / 148.529	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	52 / 114.690	- / -	52 / 114.690	96 / 243.525	141 / 346.426	90 / 242.545	62 / 200.009	Continuing	Continuing	
Non-Recurring													
Labor (Production Line Set Up)	- / -	- / -	- / -	- / 15.163	- / -	- / 15.163	- / 12.957	- / -	- / -	- / -	Continuing	Continuing	
Engineering Support	- / -	- / -	- / -	- / 21.450	- / -	- / 21.450	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / -	- / 26.613	- / -	- / 26.613	- / 12.957	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Double V Hull (DVH) A1 ECP</i>	- / -	- / -	- / -	52 / 141.303	- / -	52 / 141.303	96 / 246.482	141 / 346.426	90 / 242.545	62 / 200.009	Continuing	Continuing	
Modification Item 10 of 13: Lethality Engineering Change Proposals (ECPs)													
A Kits													
Recurring													
Hardware	- / -	- / -	- / -	240 / 68.027	- / -	240 / 68.027	300 / 77.510	293 / 87.080	202 / 157.320	197 / 151.767	Continuing	Continuing	
Fielding	- / -	- / -	- / -	- / 16.847	- / -	- / 16.847	- / 19.746	- / 110.029	- / 112.142	- / 110.896	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	240 / 74.874	- / -	240 / 74.874	300 / 87.256	293 / 97.109	202 / 169.462	197 / 162.663	Continuing	Continuing	
Non-Recurring													
Facilitization	- / -	- / -	- / 14.200	- / -	- / -	- / -	- / -	- / -	- / 5.481	- / -	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / 14.200	- / -	- / -	- / -	- / -	- / -	- / 5.481	- / -	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)					Modification Number / Title: GM0100 / STRYKER MODIFICATION			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: VARIOUS				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
<i>Subtotal: Lethality Engineering Change Proposals (ECPs)</i>	- / -	- / -	- / 4.200	240 / 74.874	- / -	240 / 74.874	300 / 87.256	293 / 97.109	202 / 174.943	197 / 162.663	Continuing	Continuing	
Modification Item 11 of 13: Double V Hull (DVH) Survivability and Safety Mods													
A Kits													
Recurring													
Hardware	1,224 / 11.812	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	1,224 / 11.812	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Non-Recurring													
Labor (Engineering Support)	- / 0.230	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / 0.230	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Double V Hull (DVH) Survivability and Safety Mods</i>	1,224 / 12.042	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Modification Item 12 of 13: 30mm ICVD Operational Needs Statement (ONS)													
A Kits													
Recurring													
Fielding	- / 0.606	- / 6.471	- / 18.937	- / 16.149	- / -	- / 16.149	- / 9.376	- / -	- / -	- / -	Continuing	Continuing	
Hardware	83 / 314.767	- / 10.827	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	83 / 315.373	- / 17.298	- / 18.937	- / 16.149	- / -	- / 16.149	- / 9.376	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: 30mm ICVD Operational Needs Statement (ONS)</i>	83 / 315.373	- / 17.298	- / 18.937	- / 16.149	- / -	- / 16.149	- / 9.376	- / -	- / -	- / -	Continuing	Continuing	
Modification Item 13 of 13: Program Management Support													
A Kits													
Recurring													
Program Management Support	- / 13.658	- / 7.955	- / 7.192	- / 18.649	- / -	- / 18.649	- / 68.784	- / 66.915	- / 70.341	- / 78.724	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 13.658	- / 7.955	- / 7.192	- / 18.649	- / -	- / 18.649	- / 68.784	- / 66.915	- / 70.341	- / 78.724	Continuing	Continuing	
<i>Subtotal: Program Management Support</i>	- / 13.658	- / 7.955	- / 7.192	- / 18.649	- / -	- / 18.649	- / 68.784	- / 66.915	- / 70.341	- / 78.724	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	8,971 / 635.846	1,117 / 82.681	312 / 97.552	346 / 287.490	- / -	346 / 287.490	1,135 / 465.780	846 / 570.391	935 / 544.979	1,823 / 500.041	Continuing	Continuing	
Installation													
Modification Item 1 of 13: Mobile Gun System (MGS) Full Materiel Release(FMR)	851 / 0.000	- / -	139 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	990 / 0.000	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Models of Systems Affected: VARIOUS **Modification Type:** Increase Performance **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Modification Item 2 of 13: Fleet Modifications	3,338 / 0.000	328 / 0.000	155 / 0.000	49 / 0.000	- / -	49 / 0.000	30 / 0.000	57 / 0.000	170 / 0.000	355 / 0.000	- / -	4,482 / 0.000
Modification Item 4 of 13: C4I Obsolescence and Next Generation Items	475 / 0.000	789 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	118 / 0.000	803 / 0.000	- / -	2,185 / 0.000
Modification Item 9 of 13: Double V Hull (DVH) A1 ECP	- / -	- / -	- / -	14 / 0.000	- / -	14 / 0.000	86 / 0.000	118 / 0.000	117 / 0.000	76 / 0.000	718 / 0.000	1,129 / 0.000
Modification Item 10 of 13: Lethality Engineering Change Proposals (ECPs)	- / -	- / -	- / -	60 / 0.000	- / -	60 / 0.000	255 / 0.000	299 / 0.000	270 / 0.000	201 / 0.000	2,114 / 0.000	3,199 / 0.000
Modification Item 12 of 13: 30mm ICVD Operational Needs Statement (ONS)	- / -	16 / 0.000	67 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	83 / 0.000
<i>Subtotal: Installation</i>	<i>4,664 / 0.000</i>	<i>1,133 / 0.000</i>	<i>361 / 0.000</i>	<i>123 / 0.000</i>	<i>0 / 0.000</i>	<i>123 / 0.000</i>	<i>371 / 0.000</i>	<i>474 / 0.000</i>	<i>675 / 0.000</i>	<i>1,435 / 0.000</i>	<i>2,832 / 0.000</i>	<i>12,068 / 0.000</i>
Total												
Total Cost (Procurement + Support + Installation)	635.846	82.681	97.552	287.490	-	287.490	465.780	570.391	544.979	500.041	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 13: Mobile Gun System (MGS) Full Materiel Release(FMR)

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C Manufacturer Location: Sterling Heights, Michigan

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 3

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Feb 2018					
Delivery Dates		May 2018					

Installation Information

Method of Implementation: Installs conducted by contractor retrofit team.

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	851 / 0.000	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	851 / 0.000
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	139 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	139 / 0.000
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	851 / 0.000	0 / 0.000	139 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	990 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	851	-	-	-	-	-	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	851	-	-	-	-	-	-	70	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 2 of 13: Fleet Modifications

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, LLC Manufacturer Location: Sterling Heights, Michigan

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 3

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	Apr 2023

Installation Information

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

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	3,338 / 0.000	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	3,338 / 0.000
FY 2017	- / -	328 / 0.000	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	328 / 0.000
FY 2018	- / -	- / -	155 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	155 / 0.000
FY 2019	- / -	- / -	- / -	49 / 0.000	- / -	49 / 0.000	- / -	- / -	- / -	- / -	- / -	49 / 0.000
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	30 / 0.000	- / -	- / -	- / -	- / -	30 / 0.000
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	57 / 0.000	- / -	- / -	- / -	57 / 0.000
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	170 / 0.000	- / -	- / -	170 / 0.000
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	355 / 0.000	- / -	355 / 0.000
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	3,338 / 0.000	328 / 0.000	155 / 0.000	49 / 0.000	0 / 0.000	49 / 0.000	30 / 0.000	57 / 0.000	170 / 0.000	355 / 0.000	- / -	4,482 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	3,338	-	328	-	-	155	-	-	-	-	49	-	-	-	30	-	-	-	57	-	-	-	170	-	-	-	355	-	-	-	-	4,482
Out	3,338	-	-	164	164	-	51	52	52	-	-	24	25	-	-	15	15	-	-	28	29	-	-	85	85	-	-	177	178	-	-	4,482

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 3 of 13: Video Display Electronic Terminal (VDET)							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Combination of Army Depot personnel and contractors at a government facility.					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 4 of 13: C4I Obsolescence and Next Generation Items

Manufacturer Information

Manufacturer Name: GM GDLS Defense Group, L.L.C. Manufacturer Location: Sterling Heights, Michigan

Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 3

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017					Jan 2022	Jan 2023
Delivery Dates	Apr 2017					Apr 2022	Apr 2023

Installation Information

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

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	475 / 0.000	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	475 / 0.000
FY 2017	- / -	789 / 0.000	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	789 / 0.000
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	118 / 0.000	- / -	- / -	118 / 0.000
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	803 / 0.000	- / -	803 / 0.000
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	475 / 0.000	789 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	118 / 0.000	803 / 0.000	- / -	2,185 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	475	-	789	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118	-	-	-	803	-	-	-	-	-	-	-
Out	475	-	-	394	395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	59	-	-	401	402	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)		Modification Number / Title: GM0100 / STRYKER MODIFICATION		
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Modification Item 5 of 13: Block Mod Retrofit							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C.				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Combination of Army Depot personnel and contractors at a government facility.					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 6 of 13: 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Installation Information							
Method of Implementation (Organic): Maintenance is provided by contractor at government test sites.					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 7 of 13: Retrofit Planning and Site Management							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021	Feb 2022	Feb 2023
Delivery Dates	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021	Feb 2022	Feb 2023
Installation Information							
Method of Implementation (Organic): Prime Contractor located at contractor and Government owned facilities.					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 8 of 13: 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates	Aug 2017	Aug 2018	Aug 2019	Aug 2020	Aug 2021	Aug 2022	Aug 2023
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 9 of 13: Double V Hull (DVH) A1 ECP

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): 6

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022
Delivery Dates			May 2019	May 2020	May 2021	May 2022	May 2023

Installation Information

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

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	14 / 0.000	- / -	14 / 0.000	38 / 0.000	- / -	- / -	- / -	- / -	52 / 0.000
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	48 / 0.000	48 / 0.000	- / -	- / -	- / -	96 / 0.000
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	70 / 0.000	71 / 0.000	- / -	- / -	141 / 0.000
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	46 / 0.000	44 / 0.000	- / -	90 / 0.000
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	32 / 0.000	30 / 0.000	62 / 0.000
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	688 / 0.000	688 / 0.000
Total	0 / 0.000	0 / 0.000	0 / 0.000	14 / 0.000	0 / 0.000	14 / 0.000	86 / 0.000	118 / 0.000	117 / 0.000	76 / 0.000	718 / 0.000	1,129 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	-	-	-	52	-	-	-	96	-	-	-	141	-	-	-	90	-	-	-	62	-	-	-	688	1,129
Out	-	-	-	-	-	-	-	-	-	-	-	7	7	19	19	24	24	24	24	35	35	36	35	23	23	22	22	16	16	718	1,129

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 10 of 13: Lethality Engineering Change Proposals (ECPs)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: Sterling Heights, Michigan
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates			Sep 2019	Sep 2020	Sep 2021	Sep 2022	Sep 2023

Installation Information

Method of Implementation: Contractor and depot team

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	60 / 0.000	- / -	60 / 0.000	180 / 0.000	- / -	- / -	- / -	- / -	240 / 0.000
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	75 / 0.000	225 / 0.000	- / -	- / -	- / -	300 / 0.000
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	74 / 0.000	219 / 0.000	- / -	- / -	293 / 0.000
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	51 / 0.000	151 / 0.000	- / -	202 / 0.000
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	50 / 0.000	147 / 0.000	197 / 0.000
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	1,967 / 0.000	1,967 / 0.000
Total	0 / 0.000	0 / 0.000	0 / 0.000	60 / 0.000	0 / 0.000	60 / 0.000	255 / 0.000	299 / 0.000	270 / 0.000	201 / 0.000	2,114 / 0.000	3,199 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	-	-	-	-	240	-	-	-	300	-	-	-	293	-	-	-	202	-	-	-	197	-	-	1,967	3,199
Out	-	-	-	-	-	-	-	-	-	-	-	-	60	60	60	60	75	75	75	75	74	73	73	73	51	51	50	50	50	2,114	3,199

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 11 of 13: Double V Hull (DVH) Survivability and Safety Mods							
Manufacturer Information							
Manufacturer Name: GM GDLS Defense Group, L.L.C.				Manufacturer Location: Sterling Heights, Michigan			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 4			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Prime Contractor					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)	Modification Number / Title: GM0100 / STRYKER MODIFICATION

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 12 of 13: 30mm ICVD Operational Needs Statement (ONS)

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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Prime Contactor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	16 / 0.000	67 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	83 / 0.000
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	16 / 0.000	67 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	83 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83
Out	-	-	-	-	16	22	22	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 0230GM0100 / Stryker (Mod)			Modification Number / Title: GM0100 / STRYKER MODIFICATION	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 13 of 13: Program Management Support							
Manufacturer Information							
Manufacturer Name: PM SBCT and GM GDLS Defense Group, L.L.C.				Manufacturer Location: Warren and Sterling Heights, Michigan			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Delivery Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022
Installation Information							
Method of Implementation (Organic): Government and contractor personnel					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:**
 0363G85200 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	133	70	-	3	-	3	-	-	-	-	-	206
Gross/Weapon System Cost (<i>\$ in Millions</i>)	412.043	418.561	-	21.900	-	21.900	-	-	-	-	-	852.504
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	412.043	418.561	-	21.900	-	21.900	-	-	-	-	-	852.504
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	412.043	418.561	-	21.900	-	21.900	-	-	-	-	-	852.504

(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>)	3,098.068	5,979.443	-	7,300.000	-	7,300.000	-	-	-	-	-	4,138.369

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 DVH A1 Engineer Change Proposal (ECP), formally 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 (On the DVH A1 ECP) development was approved. The DVH A1 ECP had a successful production decision in Aug 2016. DVH A1 ECP 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 DVH A1 ECP 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 DVH A1 ECP vehicles are:

DVH A1 ECP Infantry Carrier: The DVH A1 ECP 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 A1 ECP 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 A1 ECP Mortar Carrier: The DVH A1 ECP 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 A1 ECP Commander's Vehicle: The DVH A1 ECP 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 A1 ECP Fire Support Vehicle: The DVH A1 ECP Fire Support Vehicle (FSVV) provides automated enhanced surveillance, target acquisition, target identification, target tracking, target designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 0363G85200 / 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 A1 ECP Engineer Squad Vehicle: The DVH A1 ECP 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 A1 ECP Medical Evacuation Vehicle: The DVH A1 ECP Medical Evacuation Vehicle (MEVV) is the Battalion Aid Station for brigade units, providing treatment for serious injury and advanced trauma cases.

DVH A1 ECP Antitank Guided Missile Vehicle: The DVH A1 ECP 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	70	-	3	-	3	-	-	-	-
	Total Obligation Authority	418.561	-	21.900	-	21.900	-	-	-	-
Total: Secondary Distribution	Quantity	70	-	3	-	3	-	-	-	-
	Total Obligation Authority	418.561	-	21.900	-	21.900	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 0363G85200 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G85200 / Stryker Upgrade	P-5a, P-21	A		133 / 412.043	70 / 418.561	- / -	3 / 21.900	- / -	3 / 21.900
P-40	Total Gross/Weapon System Cost				133 / 412.043	70 / 418.561	- / -	3 / 21.900	- / -	3 / 21.900

*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 2019 Base procurement dollars in the amount of \$21.900 million supports the exchange of 3 Stryker Flat Bottom vehicles configured as a Double V Hull (DVH) A1 Engineering Change Proposal (ECP) vehicles. DVH A1 ECP vehicles will provide increased electrical power, mechanical power, weight margin, and cooling. Combined with a digital backbone, the enhanced DVH A1 ECP fleet will be able to host the future network while maintaining protection and mobility characteristics.

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

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade	Item Number / Title [DODIC]: G85200 / Stryker Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	133	70	-	3	-	3
Gross/Weapon System Cost (\$ in Millions)	412.043	418.561	-	21.900	-	21.900
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	412.043	418.561	-	21.900	-	21.900
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	412.043	418.561	-	21.900	-	21.900

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,098.068	5,979.443	-	7,300.000	-	7,300.000

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
DVH A1 ECP Infantry Carrier Vehicle ^(†)	3,032.219	64	194.062	3,047.176	34	103.604	-	-	-	-	-	-	-	-	-	-	-	-
DVH A1 ECP Anti-Tank Guided Missile Veh ^(†)	3,005.800	5	15.029	3,162.800	5	15.814	-	-	-	-	-	-	-	-	-	-	-	-
DVH A1 ECP Mortar Carrier Vehicle ^(†)	3,002.450	20	60.049	3,245.000	6	19.470	-	-	-	-	-	-	-	-	-	-	-	-
DVH A1 ECP Fire Support Vehicle ^(†)	3,018.200	5	15.091	3,166.125	8	25.329	-	-	-	-	-	-	-	-	-	-	-	-
DVH A1 ECP Engineer Squad Vehicle ^(†)	2,934.200	5	14.671	3,080.857	7	21.566	-	-	-	-	-	-	-	-	-	-	-	-
DVH A1 ECP Commander's Vehicle ^(†)	2,990.250	16	47.844	3,229.500	10	32.295	-	-	-	3,364.000	3	10.092	-	-	-	3,364.000	3	10.092
Program Management Support (Govt)	-	-	1.495	-	-	86.751	-	-	-	-	-	11.391	-	-	-	-	-	11.391
System Fielding Support	-	-	1.915	-	-	81.499	-	-	-	-	-	0.043	-	-	-	-	-	0.043
DVH A1 ECP Medical Evacuation Vehicle ^(†)	2,911.444	18	52.406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20						P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade						Item Number / Title [DODIC]: G85200 / Stryker Upgrade					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:							

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
Government Furnished Equipment (GFE)	-	-	5.274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	407.836	-	-	386.328	-	-	-	-	-	21.526	-	-	-	-	-	21.526
<i>Subtotal: Flyaway Cost</i>	-	-	407.836	-	-	386.328	-	-	-	-	-	21.526	-	-	-	-	-	21.526
Package Fielding Cost																		
Non Recurring Cost																		
Authorized Stockage List	-	-	4.207	-	-	7.212	-	-	-	-	-	0.374	-	-	-	-	-	0.374
<i>Subtotal: Non Recurring Cost</i>	-	-	4.207	-	-	7.212	-	-	-	-	-	0.374	-	-	-	-	-	0.374
<i>Subtotal: Package Fielding Cost</i>	-	-	4.207	-	-	7.212	-	-	-	-	-	0.374	-	-	-	-	-	0.374
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	25.021	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	25.021	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	3,098.068	133	412.043	5,979.443	70	418.561	-	-	-	7,300.000	3	21.900	-	-	-	7,300.000	3	21.900

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	70	-	3	-	3
	Total Obligation Authority	418.561	-	21.900	-	21.900
Total:	Quantity	70	-	3	-	3
Secondary Distribution	Total Obligation Authority	418.561	-	21.900	-	21.900

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade	Item Number / Title [DODIC]: G85200 / Stryker Upgrade
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
DVH A1 ECP Infantry Carrier Vehicle		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Sep 2016	Sep 2017	64	2,442.030	Y		Sep 2015
DVH A1 ECP Infantry Carrier Vehicle		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Aug 2017	Aug 2018	34	3,047.180	Y		Sep 2015
DVH A1 ECP Anti-Tank Guided Missile Veh		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Sep 2016	Apr 2018	5	3,015.000	Y		
DVH A1 ECP Anti-Tank Guided Missile Veh		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Aug 2017	Feb 2019	5	3,162.800	Y		
DVH A1 ECP Mortar Carrier Vehicle		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Sep 2016	Dec 2017	20	3,012.000	Y		
DVH A1 ECP Mortar Carrier Vehicle		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Aug 2017	Jan 2019	6	3,245.000	Y		
DVH A1 ECP Fire Support Vehicle		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Sep 2016	Feb 2018	5	3,028.000	Y		
DVH A1 ECP Fire Support Vehicle		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Aug 2017	Jan 2019	8	3,166.130	Y		
DVH A1 ECP Engineer Squad Vehicle		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Sep 2016	Nov 2017	5	2,944.000	Y		
DVH A1 ECP Engineer Squad Vehicle		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Aug 2017	Nov 2018	7	3,080.860	Y		
DVH A1 ECP Commander's Vehicle ^(†)		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Sep 2016	Oct 2017	16	3,000.000	Y		
DVH A1 ECP Commander's Vehicle ^(†)		2017	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Aug 2017	Sep 2018	10	3,229.500	Y		
DVH A1 ECP Commander's Vehicle ^(†)		2019	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Nov 2018	Oct 2019	3	3,364.000	Y		
DVH A1 ECP Medical Evacuation Vehicle		2016	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FFP	TACOM	Sep 2016	Mar 2018	18	2,911.440	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army																								Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20														P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade								Item Number / Title [DODIC]: G85200 / Stryker Upgrade													
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016													Fiscal Year 2017											B A L A N C E					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
DVH A1 ECP Commander's Vehicle																																			
	1	2016	ARMY	16	0	16														A	-	-	-	-	-	-	-	-	-	-	-		16		
	1	2017	ARMY	10	0	10																											A	-	10
	1	2019	ARMY	3	0	3																													3
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade	Item Number / Title [DODIC]: G85200 / Stryker Upgrade
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C 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
DVH A1 ECP Commander's Vehicle																															
1		2016	ARMY	16	0	16	4	7	-	-	-	-	-	-	-	-	3	2												0	
1		2017	ARMY	10	0	10	-	-	-	-	-	-	-	-	-	-	5	4	1											0	
1		2019	ARMY	3	0	3														A	-	-	-	-	-	-	-	-	3		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade	Item Number / Title [DODIC]: G85200 / Stryker Upgrade
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												B A L A N C E	
O C C O	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 9	B A L D U E A S O F 1 O C T	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
DVH A1 ECP Commander's Vehicle																															
	1	2016	ARMY	16	16	0																							0		
	1	2017	ARMY	10	10	0																							0		
	1	2019	ARMY	3	0	3	3																						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: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade	Item Number / Title [DODIC]: G85200 / Stryker Upgrade
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GM GDLS Defense Group L.L.C. - Shelby Township	10	10	60	12	12	13	25	6	2	10	12

Remarks:
Lead time for Stryker DVH A1 ECP variants is 11-20 months.*****

The DVH A1 ECP Production decision Acquisition Decision Memorandum limited the FY16 procurement quantity to 130 vehicles. Therefore, 3 ICVVs of the FY16 total procurement quantity of 133, was procured with the FY17 award in Aug 2017.****

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 1678GZ2400 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5,117.938	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,117.938	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5,117.938	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733	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>)	-	3,445.883	4,356.431	9,334.687	3,333.333	8,236.878	5,740.450	6,031.455	6,138.321	5,798.159	Continuing	Continuing

Description:

Bradley Program (MOD) procures upgrades to the family of 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 three ECPs in this program. ECP 1 improves vehicle suspension with improved shocks, roadarms, torsion bars and extended life track. A4 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). The Bradley M2A4 and M7A4 Vehicles are the combination of the M2A3 & M7 Base Vehicle with ECP 1 and A4 components installed and integrated. A5 improves the lethality and enables the current fleet to host inbound technologies from Army Programs of Record (i.e. 3GEN FLIR) resulting in an M2A5 / M7A5. 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 1678GZ2400 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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)		A		- / 5,117.938	- / 265.333	- / 474.851	- / 625.424	- / 50.000	- / 675.424
P-40	Total Gross/Weapon System Cost				- / 5,117.938	- / 265.333	- / 474.851	- / 625.424	- / 50.000	- / 675.424

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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)		A		- / 637.190	- / 663.460	- / 650.662	- / 840.733	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 637.190	- / 663.460	- / 650.662	- / 840.733	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 2019 Base procurement dollars in the amount of \$625.424 million supports procurement of multiple modifications to the Bradley Family of Vehicles (FOV) including the following: procurement and installation of upgrade ECP 1 kits; procurement and installation of upgrade A4 kits; High Priority Improvements, Training Aids, Devices, Simulators and Simulations (TADSS) and program/engineering support. Current projections indicate that the Bradley Infantry Fighting Vehicle will likely remain in the ABCT formation until the 2050s.

FY 2019 OCO Procurement dollars in the amount of \$50.000 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the procurement of 59 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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5,117.938	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,117.938	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,117.938	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	3,445.883	4,356.431	9,334.687	3,333.333	8,236.878	5,740.450	6,031.455	6,138.321	5,798.159	Continuing	Continuing

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 three ECPs in this program. ECP 1 improves vehicle suspension with improved shocks, road arms, torsion bars and extended life track. A4 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). A5 improves the lethality and enables the current fleet to host inbound technologies from Army Programs of Record (i.e. 3GEN FLIR). 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, develop and integrate mod kits, including short range air defense capabilities, and bring the vehicles into compliance with transportability and recovery requirements. Provides funding to maintain 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 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 ECP 1, A4, & A5 hardware, conversion of Bradley configurations and industrial base mitigation.

MOD 6 (BFVS ECP1 Modification/Field Upgrades) - Provides funding for the components and applications related to fielding modifications to the Bradley Vehicle fleet. ECP 1 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 (BFVS A4 Modifications) - Provides funding for the components, applications, integration, and engineering support related to modifications to the entire Bradley A3 Fighting Vehicle fleet. A4 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) resulting in an M2A4 / M7A4. Costs associated with kit installations are included in the funding for the prime hardware contracts.

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Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

MOD 11 (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 Deterrence Initiative (EDI).

MOD 12 (BFVS A5 Modifications) - Provides funding for the components, installation, and engineering support related to integration of A5 ECP (Lethality) to the Bradley Fighting Vehicle Fleet. A5 improves the lethality and enables the current fleet to host inbound technologies from Army Programs of Record (i.e. 3GEN FLIR) resulting in an M2A5 / M7A5. Costs associated with installations are included in the funding for the prime hardware contracts.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army											Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)					Modification Number / Title: GZ2400 / Bradley Program MOD			
ID Code (A=Service Ready, B=Not Service Ready) : A							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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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: Bradley Reactive Armor												
A Kits												
Recurring												
Kit Quantity	2,676 / 765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	2,676 / 765.100
Subtotal: Recurring	2,676 / 765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,676 / 765.100
Subtotal: Bradley Reactive Armor	2,676 / 765.100	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	2,676 / 765.100
Modification Item 2 of 11: BFVS High Priority Improvements												
A Kits												
Recurring												
CMED Driver Vision Upgrade	617 / 85.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	617 / 85.500
Reset Mods	756 / 10.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	756 / 10.500
INU/Talon	271 / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	271 / 5.000
Heat Abatement/Cargo Hatch	2,764 / 2.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	2,764 / 2.870
High Priority Mods	- / 140.539	- / 41.483	- / 60.770	- / 81.684	- / -	- / 81.684	- / 42.583	- / 42.722	- / 44.078	- / 43.926	- / 0.000	- / 149.785
Urban Survivability Mods	5,276 / 2,098.985	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	5,276 / 2,098.985
Subtotal: Recurring	9,684 / 2,343.394	- / 41.483	- / 60.770	- / 81.684	- / -	- / 81.684	- / 42.583	- / 42.722	- / 44.078	- / 43.926	- / -	9,684 / 2,700.640
Subtotal: BFVS High Priority Improvements	9,684 / 2,343.394	- / 41.483	- / 60.770	- / 81.684	- / -	- / 81.684	- / 42.583	- / 42.722	- / 44.078	- / 43.926	- / -	9,684 / 2,700.640
Modification Item 3 of 11: Training Equipment Devices												
A Kits												
Recurring												
Training Equipment	- / 119.152	- / 1.484	- / 6.066	- / 14.592	- / -	- / 14.592	- / 2.279	- / 3.527	- / 2.619	- / 1.999	- / 0.000	- / 151.718
Subtotal: Recurring	- / 119.152	- / 1.484	- / 6.066	- / 14.592	- / -	- / 14.592	- / 2.279	- / 3.527	- / 2.619	- / 1.999	- / -	- / 151.718
Subtotal: Training Equipment Devices	- / 119.152	- / 1.484	- / 6.066	- / 14.592	- / -	- / 14.592	- / 2.279	- / 3.527	- / 2.619	- / 1.999	- / -	- / 151.718
Modification Item 4 of 11: ODS Situational Awareness												
A Kits												
Recurring												
ODS Situational Awareness	770 / 1,199.553	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	770 / 1,199.553

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army											Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)							Modification Number / Title: GZ2400 / Bradley Program MOD			
ID Code (A=Service Ready, B=Not Service Ready) : A							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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)		
IBAS Refresh	- / 8.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.850		
ODS-SA VEHICLE VERSION IDENTIFICATION	- / 12.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 12.500		
<i>Subtotal: Recurring</i>	770 / 1,220.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / 1,220.903		
<i>Subtotal: ODS Situational Awareness</i>	770 / 1,220.903	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	770 / 1,220.903		
Modification Item 5 of 11: Program/Engineering Support														
A Kits														
Recurring														
Government PM support	- / 131.411	- / 15.591	- / 20.067	- / 14.474	- / -	- / 14.474	- / 14.752	- / 15.053	- / 15.367	- / 15.688	- / 0.000	- / 242.403		
Contractor PM Support	- / 109.271	- / 4.060	- / 5.226	- / 3.619	- / -	- / 3.619	- / 3.688	- / 3.764	- / 3.842	- / 3.922	- / 0.000	- / 137.392		
<i>Subtotal: Recurring</i>	- / 240.682	- / 19.651	- / 25.293	- / 18.093	- / -	- / 18.093	- / 18.440	- / 18.817	- / 19.209	- / 19.610	- / -	- / 379.795		
<i>Subtotal: Program/Engineering Support</i>	- / 240.682	- / 19.651	- / 25.293	- / 18.093	- / -	- / 18.093	- / 18.440	- / 18.817	- / 19.209	- / 19.610	- / -	- / 379.795		
Modification Item 6 of 11: BFVS ECP 1 Modification/Field Upgrades														
A Kits														
Recurring														
BFVS ECP 1 Modification	1,080 / 151.686	276 / 48.618	345 / 67.637	345 / 59.197	- / -	345 / 59.197	345 / 60.610	345 / 62.413	345 / 64.748	263 / 52.040	- / 0.000	3,344 / 566.949		
BFVS Field Conversion M2 Common Stowage	- / 51.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 51.000		
BFVS Underbelly	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 21.349	138 / 19.942	138 / 19.499	- / 0.000	414 / 60.790		
<i>Subtotal: Recurring</i>	1,080 / 202.686	276 / 48.618	345 / 67.637	345 / 59.197	- / -	345 / 59.197	345 / 60.610	483 / 83.762	483 / 84.690	401 / 71.539	- / -	3,758 / 678.739		
<i>Subtotal: BFVS ECP 1 Modification/Field Upgrades</i>	1,080 / 202.686	276 / 48.618	345 / 67.637	345 / 59.197	- / -	345 / 59.197	345 / 60.610	483 / 83.762	483 / 84.690	401 / 71.539	- / -	3,758 / 678.739		
Modification Item 7 of 11: BFVS A4 Modification														
A Kits														
Recurring														
BFVS A4 Modification	- / -	45 / 154.097	135 / 285.085	149 / 451.858	- / -	149 / 451.858	147 / 513.278	155 / 514.632	152 / 500.066	207 / 403.359	Continuing	Continuing		
<i>Subtotal: Recurring</i>	- / -	45 / 154.097	135 / 285.085	149 / 451.858	- / -	149 / 451.858	147 / 513.278	155 / 514.632	152 / 500.066	207 / 403.359	Continuing	Continuing		
<i>Subtotal: BFVS A4 Modification</i>	- / -	45 / 154.097	135 / 285.085	149 / 451.858	- / -	149 / 451.858	147 / 513.278	155 / 514.632	152 / 500.066	207 / 403.359	Continuing	Continuing		
Modification Item 8 of 11: Conversion to M2														
A Kits														
Recurring														
Conversion M3-M2	195 / 132.245	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	195 / 132.245		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

ID Code (A=Service Ready, B=Not Service Ready) : A	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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Fielding	- / 5.942	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 5.942
<i>Subtotal: Recurring</i>	195 / 138.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	195 / 138.187
<i>Subtotal: Conversion to M2</i>	195 / 138.187	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	195 / 138.187
Modification Item 9 of 11: Braking Safety/ Transmission Industrial Base												
A Kits												
Recurring												
Transmission	266 / 87.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	266 / 87.834
<i>Subtotal: Recurring</i>	266 / 87.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	266 / 87.834
<i>Subtotal: Braking Safety/Transmission Industrial Base</i>	266 / 87.834	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	266 / 87.834
Modification Item 10 of 11: Survivability Enhancements												
A Kits												
Recurring												
Active Protection System (APS)	- / -	- / -	- / 4.571	- / 0.000	- / 7.758	- / 7.758	- / -	- / -	- / -	- / -	- / 0.000	- / 12.329
<i>Subtotal: Recurring</i>	- / -	- / -	- / 4.571	- / -	- / 7.758	- / 7.758	- / -	- / -	- / -	- / -	- / -	- / 12.329
B Kits												
Recurring												
Active Protection System (APS)	- / -	- / -	35 / 25.429	0 / 0.000	59 / 42.242	59 / 42.242	- / -	- / -	- / -	- / -	- / 0.000	94 / 67.671
<i>Subtotal: Recurring</i>	- / -	- / -	35 / 25.429	- / -	59 / 42.242	59 / 42.242	- / -	- / -	- / -	- / -	- / -	94 / 67.671
<i>Subtotal: Survivability Enhancements</i>	- / -	- / -	35 / 30.000	- / 0.000	59 / 50.000	59 / 50.000	- / -	- / -	- / -	- / -	- / -	94 / 80.000
Modification Item 11 of 11: BFVS A5 Modification												
A Kits												
Recurring												
BFVS A5 Modification	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	168 / 300.300	Continuing
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	168 / 300.300	Continuing
<i>Subtotal: BFVS A5 Modification</i>	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	168 / 300.300	Continuing
<i>Subtotal: Procurement, All Modification Items</i>	14,671 / 5,117.938	321 / 265.333	515 / 474.851	494 / 625.424	59 / 50.000	553 / 675.424	492 / 637.190	638 / 663.460	635 / 650.662	776 / 840.733	Continuing	Continuing

Installation

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 **P-1 Line Item Number / Title:** 1678GZ2400 / Bradley Program (MOD) **Modification Number / Title:** GZ2400 / Bradley Program MOD

ID Code (A=Service Ready, B=Not Service Ready) : A **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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Modification Item 6 of 11: BFVS ECP 1 Modification/ Field Upgrades	635 / 0.000	414 / 0.000	307 / 0.000	345 / 0.000	- / -	345 / 0.000	345 / 0.000	345 / 0.000	345 / 0.000	345 / 0.000	263 / 0.000	3,344 / 0.000
Modification Item 7 of 11: BFVS A4 Modification	- / -	- / -	- / -	11 / 0.000	- / -	11 / 0.000	67 / 0.000	139 / 0.000	148 / 0.000	149 / 0.000	2,178 / 0.000	2,692 / 0.000
Modification Item 8 of 11: Conversion to M2	137 / 0.000	42 / 0.000	16 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	195 / 0.000
Modification Item 10 of 11: Survivability Enhancements	- / -	- / -	35 / 0.000	- / -	59 / 0.000	59 / 0.000	- / -	- / -	- / -	- / -	- / -	94 / 0.000
Modification Item 11 of 11: BFVS A5 Modification	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	168 / 0.000	168 / 0.000
<i>Subtotal: Installation</i>	<i>772 / 0.000</i>	<i>456 / 0.000</i>	<i>358 / 0.000</i>	<i>356 / 0.000</i>	<i>59 / 0.000</i>	<i>415 / 0.000</i>	<i>412 / 0.000</i>	<i>484 / 0.000</i>	<i>493 / 0.000</i>	<i>494 / 0.000</i>	<i>2,609 / 0.000</i>	<i>6,493 / 0.000</i>
Total												
Total Cost (Procurement + Support + Installation)	5,117.938	265.333	474.851	625.424	50.000	675.424	637.190	663.460	650.662	840.733	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)			Modification Number / Title: GZ2400 / Bradley Program MOD	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 11: Bradley Reactive Armor							
Manufacturer Information							
Manufacturer Name: GDATP				Manufacturer Location: Burlington, VT			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)			Modification Number / Title: GZ2400 / Bradley Program MOD	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 2 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Delivery Dates	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023	Mar 2024
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)			Modification Number / Title: GZ2400 / Bradley Program MOD	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 3 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Feb 2017	Feb 2018	Feb 2019	Feb 2019	Feb 2020	Feb 2021	Feb 2022
Delivery Dates	Feb 2018	Feb 2019	Feb 2020	Feb 2020	Feb 2021	Feb 2022	Feb 2023
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)			Modification Number / Title: GZ2400 / Bradley Program MOD	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 4 of 11: ODS Situational Awareness							
Manufacturer Information							
Manufacturer Name: BAE				Manufacturer Location: YORK, PA			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)			Modification Number / Title: GZ2400 / Bradley Program MOD	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 5 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2018	Dec 2019	Dec 2020	Dec 2021
Delivery Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2019	Jan 2020	Jan 2021	Jan 2022
Installation Information							
Method of Implementation (Organic): x					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 6 of 11: BFVS 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jun 2017	Jun 2018	Jun 2019	Sep 2019	Sep 2020	Sep 2021	Sep 2022
Delivery Dates	Jun 2018	Jun 2019	Jun 2020	Sep 2020	Sep 2021	Sep 2022	Sep 2023

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	635 / 0.000	414 / 0.000	31 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	1,080 / 0.000
FY 2017	- / -	- / -	276 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	276 / 0.000
FY 2018	- / -	- / -	- / -	345 / 0.000	- / -	345 / 0.000	- / -	- / -	- / -	- / -	- / -	345 / 0.000
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	345 / 0.000	- / -	- / -	- / -	- / -	345 / 0.000
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	345 / 0.000	- / -	- / -	- / -	345 / 0.000
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	345 / 0.000	- / -	- / -	345 / 0.000
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	345 / 0.000	- / -	345 / 0.000
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	263 / 0.000	263 / 0.000
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	635 / 0.000	414 / 0.000	307 / 0.000	345 / 0.000	0 / 0.000	345 / 0.000	345 / 0.000	345 / 0.000	345 / 0.000	345 / 0.000	263 / 0.000	3,344 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	1,080	-	-	276	-	-	-	345	-	-	-	345	-	-	-	345	-	-	-	345	-	-	-	345	-	-	-	263	-	-	3,344
Out	635	104	104	103	103	77	77	77	76	87	86	86	86	87	86	86	86	87	86	86	86	87	86	86	86	87	86	86	86	263	3,344

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 7 of 11: BFVS A4 Modification

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: York, PA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2018	Sep 2018	Jul 2019	Jul 2020	Jul 2021	Jul 2022	Jul 2023
Delivery Dates	Sep 2019	Sep 2020	Sep 2021	Sep 2022	Sep 2023	Sep 2024	Sep 2025

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	11 / 0.000	- / -	11 / 0.000	34 / 0.000	- / -	- / -	- / -	- / -	45 / 0.000
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	33 / 0.000	102 / 0.000	- / -	- / -	- / -	135 / 0.000
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	37 / 0.000	112 / 0.000	- / -	- / -	149 / 0.000
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	36 / 0.000	111 / 0.000	- / -	147 / 0.000
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	38 / 0.000	117 / 0.000	155 / 0.000
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	152 / 0.000	152 / 0.000
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	207 / 0.000	207 / 0.000
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	1,702 / 0.000	1,702 / 0.000
Total	0 / 0.000	0 / 0.000	0 / 0.000	11 / 0.000	0 / 0.000	11 / 0.000	67 / 0.000	139 / 0.000	148 / 0.000	149 / 0.000	2,178 / 0.000	2,692 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	11	11	11	12	33	34	34	34	37	37	37	38	36	37	37	37	38	-	-	-	-	-	-	2,692	3,206
Out	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11	12	33	34	34	34	37	37	37	38	36	37	37	37	38	2,692	3,206

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 8 of 11: Conversion to M2

Manufacturer Information

Manufacturer Name: BAE Manufacturer Location: YORK, PA

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

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	137 / 0.000	2 / 0.000	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	139 / 0.000
FY 2017	- / -	40 / 0.000	16 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	56 / 0.000
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	137 / 0.000	42 / 0.000	16 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	195 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	137	2	12	16	12	13	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)			Modification Number / Title: GZ2400 / Bradley Program MOD	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 9 of 11: Braking Safety/Transmission Industrial Base							
Manufacturer Information							
Manufacturer Name: L3COM				Manufacturer Location: MUSKEGON, MI			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 10 of 11: Survivability Enhancements

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: Sterling Heights, MI
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 18

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Sep 2018	Jan 2019				
Delivery Dates		Mar 2020	Jul 2020				

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	35 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	35 / 0.000
FY 2019	- / -	- / -	- / -	0 / 0.000	59 / 0.000	59 / 0.000	- / -	- / -	- / -	- / -	- / -	59 / 0.000
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	35 / 0.000	0 / 0.000	59 / 0.000	59 / 0.000	- / -	- / -	- / -	- / -	- / -	94 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	25	30	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	25	30	29	-	-	-	-	-	-	-	-	-	-		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program MOD

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 11 of 11: BFVS A5 Modification

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: York, PA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							Jul 2023
Delivery Dates							Jul 2024

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	168 / 0.000	168 / 0.000
To Complete	- / -	- / -	- / -	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	- / -	- / -	- / -	- / -	168 / 0.000	168 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168	168
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168	168

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 2072GA0400 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,007.875	63.138	64.230	26.482	-	26.482	31.056	-	-	-	-	2,192.781
Less PY Advance Procurement (<i>\$ in Millions</i>)	16.321	0.000	0.000	0.000	-	0.000	0.000	-	-	-	-	16.321
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,991.554	63.138	64.230	26.482	-	26.482	31.056	-	-	-	-	2,176.460
Plus CY Advance Procurement (<i>\$ in Millions</i>)	16.321	0.000	0.000	0.000	-	0.000	0.000	-	-	-	-	16.321
Total Obligation Authority (<i>\$ in Millions</i>)	2,007.875	63.138	64.230	26.482	-	26.482	31.056	-	-	-	-	2,192.781

(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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	36.745	37.460	15.889	-	15.889	18.634	-	-	-
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	26.393	26.770	10.593	-	10.593	12.422	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	63.138	64.230	26.482	-	26.482	31.056	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 2072GA0400 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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)		B		- / 2,007.875	- / 63.138	- / 64.230	- / 26.482	- / -	- / 26.482
P-40	Total Gross/Weapon System Cost				- / 2,007.875	- / 63.138	- / 64.230	- / 26.482	- / -	- / 26.482

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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)		B		- / 31.056	- / -	- / -	- / -	- / -	- / 2,192.781
P-40	Total Gross/Weapon System Cost				- / 31.056	- / -	- / -	- / -	- / -	- / 2,192.781

*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 2019 base procurement funding in the amount of \$26.482 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.

The 2019 funding request was reduced by \$31.330 million to account for the availability of prior year execution balances.

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,007.875	63.138	64.230	26.482	-	26.482	31.056	-	-	-	-	2,192.781
Less PY Advance Procurement (\$ in Millions)	16.321	0.000	0.000	0.000	-	0.000	0.000	-	-	-	-	16.321
Net Procurement (P-1) (\$ in Millions)	1,991.554	63.138	64.230	26.482	-	26.482	31.056	-	-	-	-	2,176.460
Plus CY Advance Procurement (\$ in Millions)	16.321	0.000	0.000	0.000	-	0.000	0.000	-	-	-	-	16.321
Total Obligation Authority (\$ in Millions)	2,007.875	63.138	64.230	26.482	-	26.482	31.056	-	-	-	-	2,192.781

(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:

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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Breech Mod (MACS) [MOD 6 & MOD 13]: 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.

Gun Mount Ballistic Shield (GMBS) Rotor Shield [MOD 14]: Funding supports survivability shortfalls in the M109 FOV gun mount area. This mod increases the armor protection of the M182 Gun Mount Recoil Mechanism as well as provide additional crew protection for small arms direct fire.

Int. Blast Mitigation Retrofit HW/Fielding (M109A7) [MOD 15]: Procures and installs improved floor mat and ammo restraint improvements in the event of an under blast event to reduce secondary projectile.

TARDEC Updated Grille [MOD 16]: Procure and install improved engine air intake grilles for the M109A7/M992A3 vehicle. These provide improved vehicle survivability from overhead blast fragments.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	36.745	37.460	15.889	-	15.889	18.634	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	26.393	26.770	10.593	-	10.593	12.422	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	63.138	64.230	26.482	-	26.482	31.056	-	-	-

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: M109 Howitzer and M992 FAASV/CAT Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 16: M109 FOV Program Office												
A Kits												
Recurring												
PM Support	- / 6.169	- / 2.265	- / 2.298	- / 2.424	- / -	- / 2.424	- / 2.472	- / -	- / -	- / -	- / 0.000	- / 15.628
<i>Subtotal: Recurring</i>	- / 6.169	- / 2.265	- / 2.298	- / 2.424	- / -	- / 2.424	- / 2.472	- / -	- / -	- / -	- / -	- / 15.628
<i>Subtotal: M109 FOV Program Office</i>	- / 6.169	- / 2.265	- / 2.298	- / 2.424	- / -	- / 2.424	- / 2.472	- / -	- / -	- / -	- / -	- / 15.628

Modification Item 2 of 16: Paladin Fire Control System												
A Kits												
Recurring												
Hardware	239 / 101.051	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	239 / 101.051
<i>Subtotal: Recurring</i>	239 / 101.051	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	239 / 101.051
<i>Subtotal: Paladin Fire Control System</i>	239 / 101.051	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	239 / 101.051

Modification Item 3 of 16: Chrome Tubes												
A Kits												
Recurring												
Hardware	113 / 10.033	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	113 / 10.033
<i>Subtotal: Recurring</i>	113 / 10.033	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	113 / 10.033
<i>Subtotal: Chrome Tubes</i>	113 / 10.033	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	113 / 10.033

Modification Item 4 of 16: Lightweight Bore Evacuator												
A Kits												
Recurring												
Hardware	219 / 5.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	219 / 5.217
<i>Subtotal: Recurring</i>	219 / 5.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	219 / 5.217
<i>Subtotal: Lightweight Bore Evacuator</i>	219 / 5.217	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	219 / 5.217

Modification Item 5 of 16: M109 FOV System Technical Support - Contr												
A Kits												
Recurring												

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

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

Models of Systems Affected: M109 Howitzer and M992 FAASV/CAT Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
STS	- / 23.770	- / 43.851	- / 8.626	- / 0.423	- / -	- / 0.423	- / 1.722	- / -	- / -	- / -	- / 0.000	- / 78.392
<i>Subtotal: Recurring</i>	- / 23.770	- / 43.851	- / 8.626	- / 0.423	- / -	- / 0.423	- / 1.722	- / -	- / -	- / -	- / -	- / 78.392
<i>Subtotal: M109 FOV System Technical Support - Contr</i>	- / 23.770	- / 43.851	- / 8.626	- / 0.423	- / -	- / 0.423	- / 1.722	- / -	- / -	- / -	- / -	- / 78.392
Modification Item 6 of 16: Breech Mod (MACS)												
A Kits												
Recurring												
Hardware	- / -	144 / 11.231	283 / 20.000	178 / 12.880	- / -	178 / 12.880	- / -	- / -	- / -	- / -	- / 0.000	605 / 44.111
<i>Subtotal: Recurring</i>	- / -	144 / 11.231	283 / 20.000	178 / 12.880	- / -	178 / 12.880	- / -	- / -	- / -	- / -	- / -	605 / 44.111
<i>Subtotal: Breech Mod (MACS)</i>	- / -	144 / 11.231	283 / 20.000	178 / 12.880	- / -	178 / 12.880	- / -	- / -	- / -	- / -	- / -	605 / 44.111
Modification Item 7 of 16: Paladin Stowage Improvements (M109A6)												
A Kits												
Recurring												
Stowage Improvements	208 / 5.980	241 / 5.791	- / -	- / 0.076	- / -	- / 0.076	- / -	- / -	- / -	- / -	- / 0.000	449 / 11.847
<i>Subtotal: Recurring</i>	208 / 5.980	241 / 5.791	- / -	- / 0.076	- / -	- / 0.076	- / -	- / -	- / -	- / -	- / -	449 / 11.847
<i>Subtotal: Paladin Stowage Improvements (M109A6)</i>	208 / 5.980	241 / 5.791	- / -	- / 0.076	- / -	- / 0.076	- / -	- / -	- / -	- / -	- / -	449 / 11.847
Modification Item 8 of 16: FSCATT Phase III Upgrade (M109A6)												
A Kits												
Recurring												
Training Equipment Software	- / 5.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 5.204
<i>Subtotal: Recurring</i>	- / 5.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.204
<i>Subtotal: FSCATT Phase III Upgrade (M109A6)</i>	- / 5.204	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 5.204
Modification Item 9 of 16: CREW II A-Kit HW and Fielding (M109A6)												
A Kits												
Recurring												
Installation Kits	- / -	- / -	265 / 6.692	177 / 4.455	- / -	177 / 4.455	- / -	- / -	- / -	- / -	- / 0.000	442 / 11.147
<i>Subtotal: Recurring</i>	- / -	- / -	265 / 6.692	177 / 4.455	- / -	177 / 4.455	- / -	- / -	- / -	- / -	- / -	442 / 11.147
<i>Subtotal: CREW II A-Kit HW and Fielding (M109A6)</i>	- / -	- / -	265 / 6.692	177 / 4.455	- / -	177 / 4.455	- / -	- / -	- / -	- / -	- / -	442 / 11.147

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: M109 Howitzer and M992 FAASV/CAT Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Modification Item 10 of 16: M109 FOV Mods													
A Kits													
Recurring													
M109 FOV Mods	- / -	- / -	- / 26.614	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 26.614
<i>Subtotal: Recurring</i>	- / -	- / -	- / 26.614	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.614
<i>Subtotal: M109 FOV Mods</i>	- / -	- / -	- / 26.614	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 26.614	
Modification Item 11 of 16: Prior Years Closed Mods													
A Kits													
Recurring													
Prior Closed Mods	- / 1,816.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1,816.451
<i>Subtotal: Recurring</i>	- / 1,816.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,816.451
<i>Subtotal: Prior Years Closed Mods</i>	- / 1,816.451	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1,816.451	
Modification Item 12 of 16: Gun Tubes													
A Kits													
Recurring													
Hardware	- / 34.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 34.000
<i>Subtotal: Recurring</i>	- / 34.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.000
<i>Subtotal: Gun Tubes</i>	- / 34.000	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 34.000	
Modification Item 13 of 16: Breech (Phase II) HW and Fielding													
A Kits													
Recurring													
Hardware	- / -	- / -	- / -	72 / 5.982	- / -	72 / 5.982	240 / 16.638	- / -	- / -	- / -	- / 0.000	312 / 22.620	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	72 / 5.982	- / -	72 / 5.982	240 / 16.638	- / -	- / -	- / -	- / -	312 / 22.620	
<i>Subtotal: Breech (Phase II) HW and Fielding</i>	- / -	- / -	- / -	72 / 5.982	- / -	72 / 5.982	240 / 16.638	- / -	- / -	- / -	- / -	312 / 22.620	
Modification Item 14 of 16: Gun Mount Ballistic Shield (GMBS) and Rotor Shield													
A Kits													
Recurring													
Hardware	- / -	- / -	- / -	18 / 0.242	- / -	18 / 0.242	59 / 0.810	- / -	- / -	- / -	- / 0.000	77 / 1.052	

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: M109 Howitzer and M992 FAASV/CAT Vehicles	Modification Type: Increase Performance	Related RDT&E PEs:
------------------------------------------------------------------------------	------------------------------------------------	-------------------------------

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	18 / 0.242	- / -	18 / 0.242	59 / 0.810	- / -	- / -	- / -	- / -	77 / 1.052
<i>Subtotal: Gun Mount Ballistic Shield (GMBS) and Rotor Shield</i>	- / -	- / -	- / -	18 / 0.242	- / -	18 / 0.242	59 / 0.810	- / -	- / -	- / -	- / -	77 / 1.052
Modification Item 15 of 16: Int. Blast Mitigation Retrofit HW/Fielding(M109A7)												
A Kits												
Recurring												
Hardware	- / -	- / -	- / -	- / -	- / -	- / -	118 / 6.910	- / -	- / -	- / -	- / 0.000	118 / 6.910
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	118 / 6.910	- / -	- / -	- / -	- / -	118 / 6.910
<i>Subtotal: Int. Blast Mitigation Retrofit HW/Fielding(M109A7)</i>	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	118 / 6.910	- / -	- / -	- / -	- / -	118 / 6.910
Modification Item 16 of 16: TARDEC Updated Grille												
A Kits												
Recurring												
Hardware	- / -	- / -	- / -	- / -	- / -	- / -	118 / 2.504	- / -	- / -	- / -	- / 0.000	118 / 2.504
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	118 / 2.504	- / -	- / -	- / -	- / -	118 / 2.504
<i>Subtotal: TARDEC Updated Grille</i>	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	118 / 2.504	- / -	- / -	- / -	- / -	118 / 2.504
<i>Subtotal: Procurement, All Modification Items</i>	779 / 2,007.875	385 / 63.138	548 / 64.230	445 / 26.482	- / -	445 / 26.482	535 / 31.056	- / -	- / -	- / -	- / -	2,692 / 2,192.781

Installation												
Modification Item 2 of 16: Paladin Fire Control System	40 / 0.000	164 / 0.000	- / -	35 / 0.000	- / -	35 / 0.000	- / -	- / -	- / -	- / -	- / -	239 / 0.000
Modification Item 3 of 16: Chrome Tubes	- / -	113 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	113 / 0.000
Modification Item 4 of 16: Lightweight Bore Evacuator	- / -	219 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	219 / 0.000
<i>Subtotal: Installation</i>	40 / 0.000	496 / 0.000	0 / 0.000	35 / 0.000	0 / 0.000	35 / 0.000	- / -	- / -	- / -	- / -	- / -	571 / 0.000
Total												
Total Cost (Procurement + Support + Installation)	2,007.875	63.138	64.230	26.482	-	26.482	31.056	-	-	-	-	2,192.781

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications		Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Modification Item 1 of 16: M109 FOV Program Office							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018				
Delivery Dates	Oct 2016	Oct 2017	Oct 2018				
Installation Information							
Method of Implementation (Organic): N/A					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 2 of 16: Paladin Fire Control System

Manufacturer Information

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

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: x

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	40 / 0.000	164 / 0.000	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	204 / 0.000
FY 2017	- / -	- / -	- / -	35 / 0.000	- / -	35 / 0.000	- / -	- / -	- / -	- / -	- / -	35 / 0.000
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	40 / 0.000	164 / 0.000	0 / 0.000	35 / 0.000	0 / 0.000	35 / 0.000	- / -	- / -	- / -	- / -	- / -	239 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	40	46	46	46	26	-	-	-	-	9	9	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	40	46	46	46	26	-	-	-	-	9	9	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 3 of 16: Chrome Tubes

Manufacturer Information

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

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: .

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	113 / 0.000	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	113 / 0.000
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	113 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	113 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113
Out	-	28	29	28	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications	Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 4 of 16: Lightweight Bore Evacuator

Manufacturer Information

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

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: .

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	219 / 0.000	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	219 / 0.000
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	219 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	219 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	54	55	55	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	54	55	55	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications		Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Modification Item 5 of 16: M109 FOV System Technical Support - Contr							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019			
Delivery Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019			
Installation Information							
Method of Implementation (Organic): N/A					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications		Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Modification Item 6 of 16: 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Dec 2016	Dec 2017	Dec 2018				
Delivery Dates	Dec 2017	Dec 2018	Dec 2019				
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 7 of 16: Paladin Stowage Improvements (M109A6)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 10				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jul 2017		Jul 2019				
Delivery Dates	Jul 2018		Jul 2020				
Installation Information							
Method of Implementation (Organic): Field Retrofit					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 8 of 16: FSCATT Phase III Upgrade (M109A6)							
Manufacturer Information							
Manufacturer Name: X				Manufacturer Location: X			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): N/A					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 9 of 16: CREW II A-Kit HW and Fielding (M109A6)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Dec 2017	Dec 2018				
Delivery Dates		Dec 2018	Dec 2019				
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 10 of 16: M109 FOV Mods							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Oct 2017					
Delivery Dates		Oct 2018					
Installation Information							
Method of Implementation (Organic): n/a					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 11 of 16: Prior Years Closed Mods							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): x					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 12 of 16: Gun Tubes							
Manufacturer Information							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 13 of 16: Breech (Phase II) 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019			
Delivery Dates			Dec 2019	Dec 2020			
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 14 of 16: Gun Mount Ballistic Shield (GMBS) and Rotor Shield							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Dec 2018	Dec 2019			
Delivery Dates			Dec 2019	Dec 2020			
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications		Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Modification Item 15 of 16: Int. Blast Mitigation Retrofit HW/Fielding(M109A7)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Dec 2019			
Delivery Dates				Dec 2020			
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications			Modification Number / Title: GA0400 / M109 Family of Vehicles Modification Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 16 of 16: TARDEC Updated Grille							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates				Dec 2019			
Delivery Dates				Dec 2020			
Installation Information							
Method of Implementation (Organic): .					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 2073GZ0410 / 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: 466

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	65	48	71	30	6	36	60	60	60	55	119	574
Gross/Weapon System Cost (<i>\$ in Millions</i>)	867.860	584.089	772.149	351.802	67.000	418.802	639.744	660.833	645.151	659.172	1,736.303	6,984.103
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	867.860	584.089	772.149	351.802	67.000	418.802	639.744	660.833	645.151	659.172	1,736.303	6,984.103
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	867.860	584.089	772.149	351.802	67.000	418.802	639.744	660.833	645.151	659.172	1,736.303	6,984.103
<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>)	13,351.692	12,168.521	10,875.338	11,726.733	11,166.667	11,633.389	10,662.400	11,013.883	10,752.517	11,984.945	14,590.782	12,167.427

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	46	49	11	6	17	33	32	33	29
	Total Obligation Authority	558.450	574.930	92.312	67.000	159.312	381.165	416.872	392.942	380.335
ANG	Quantity	2	22	19	-	19	27	28	27	26
	Total Obligation Authority	25.639	197.219	259.490	-	259.490	258.579	243.961	252.209	278.837
Total: Secondary Distribution	Quantity	48	71	30	6	36	60	60	60	55
	Total Obligation Authority	584.089	772.149	351.802	67.000	418.802	639.744	660.833	645.151	659.172

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 2073GZ0410 / 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: 466

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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		65 / 867.860	48 / 584.089	71 / 772.149	30 / 351.802	6 / 67.000	36 / 418.802
P-40	Total Gross/Weapon System Cost				65 / 867.860	48 / 584.089	71 / 772.149	30 / 351.802	6 / 67.000	36 / 418.802

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

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

Justification:
 FY 2019 Base Procurement dollars in the amount of \$351.802 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 30 SPHs and 30 CATs. The unit cost represents cost per set (1 SPH and 1 CAT).

FY 2019 Overseas Contingency Operations (OCO) procurement dollars in the amount of \$67.000 million to support COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). The OCO funding will provide one Battery Set of M109A7/M992A3. No training is required for this equipment hand off. 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 6 SPHs and 6 CATs. The unit cost represents cost per set (1 SPH and 1 CAT).

The 2019 funding request was reduced by \$150.000 million to account for the availability of prior year execution balances.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. Army Acquisition Objective (AAO): 580 sets

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2073GZ0410 / 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:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	65	48	71	30	6	36
Gross/Weapon System Cost (\$ in Millions)	867.860	584.089	772.149	351.802	67.000	418.802
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	867.860	584.089	772.149	351.802	67.000	418.802
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	867.860	584.089	772.149	351.802	67.000	418.802

(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)	13,351.692	12,168.521	10,875.338	11,726.733	11,166.667	11,633.389

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)	-	-	18.821	-	-	10.303	-	-	17.075	-	-	10.270	-	-	2.066	-	-	12.336
SYSTEM TECHNICAL SUPPORT	-	-	105.430	-	-	55.947	-	-	53.251	-	-	30.546	-	-	5.565	-	-	36.111
SYS TEST & EVALUATION (CONTRACTOR)	-	-	32.388	-	-	1.363	-	-	2.094	-	-	0.875	-	-	0.176	-	-	1.051
SYS ENG/ PROG MGMT (GOVERNMENT)	-	-	71.310	-	-	23.996	-	-	28.739	-	-	29.163	-	-	3.859	-	-	33.022
SYS TEST & EVALUATION (GOVERNMENT)	-	-	4.206	-	-	2.882	-	-	7.607	-	-	3.035	-	-	0.402	-	-	3.437
TRANSPORTATION	-	-	0.263	-	-	0.587	-	-	0.952	-	-	0.591	-	-	0.119	-	-	0.710
Subtotal: Recurring Cost	-	-	232.418	-	-	95.078	-	-	109.718	-	-	74.480	-	-	12.187	-	-	86.667
Non Recurring Cost																		
PRODUCTION FACILITIZATION	-	-	28.131	-	-	14.538	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	28.131	-	-	14.538	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	260.549	-	-	109.616	-	-	109.718	-	-	74.480	-	-	12.187	-	-	86.667
Hardware Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20						P-1 Line Item Number / Title: 2073GZ0410 / 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:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 ^(†)	11,168.628	43	480.251	8,036.229	48	385.739	7,328.437	71	520.319	6,659.833	30	199.795	6,662.000	6	39.972	6,660.194	36	239.767
GOVERNMENT FURNISHED EQUIPMENT (GFE)	-	-	33.009	-	-	24.318	-	-	42.314	-	-	25.795	-	-	5.189	-	-	30.984
THEATRE PROVIDED EQUIPMENT	-	-	2.339	-	-	3.512	-	-	30.077	-	-	5.381	-	-	1.082	-	-	6.463
RECURRING PRODUCTION - OTHER	-	-	7.878	-	-	4.457	-	-	7.386	-	-	4.443	-	-	0.894	-	-	5.337
ENGINEERING CHANGE ORDERS	-	-	24.576	-	-	22.452	-	-	19.039	-	-	18.549	-	-	2.455	-	-	21.004
<i>Subtotal: Recurring Cost</i>	-	-	<i>548.053</i>	-	-	<i>440.478</i>	-	-	<i>619.135</i>	-	-	<i>253.963</i>	-	-	<i>49.592</i>	-	-	<i>303.555</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>548.053</i>	-	-	<i>440.478</i>	-	-	<i>619.135</i>	-	-	<i>253.963</i>	-	-	<i>49.592</i>	-	-	<i>303.555</i>
Support - Contractor Logistics Support (CLS) Cost																		
Oversight	-	-	23.080	-	-	0.348	-	-	0.326	-	-	0.437	-	-	0.088	-	-	0.525
<i>Subtotal: Support - Contractor Logistics Support (CLS) Cost</i>	-	-	<i>23.080</i>	-	-	<i>0.348</i>	-	-	<i>0.326</i>	-	-	<i>0.437</i>	-	-	<i>0.088</i>	-	-	<i>0.525</i>
Support - Data Cost																		
Technical Publications	-	-	20.288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	<i>20.288</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	10.494	-	-	18.251	-	-	4.425	-	-	1.413	-	-	5.838
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	<i>10.494</i>	-	-	<i>18.251</i>	-	-	<i>4.425</i>	-	-	<i>1.413</i>	-	-	<i>5.838</i>
Support - Initial Support Equipment (ISE) Cost																		
Support and Handling Equipment	-	-	0.601	-	-	4.774	-	-	5.462	-	-	4.127	-	-	0.830	-	-	4.957
<i>Subtotal: Support - Initial Support Equipment (ISE) Cost</i>	-	-	<i>0.601</i>	-	-	<i>4.774</i>	-	-	<i>5.462</i>	-	-	<i>4.127</i>	-	-	<i>0.830</i>	-	-	<i>4.957</i>
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	-	-	-	11.370	-	-	9.385	-	-	6.801	-	-	1.368	-	-	8.169

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: 2073GZ0410 / 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:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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: Support - New Equipment Training (NET) Cost</i>	-	-	-	-	-	11.370	-	-	9.385	-	-	6.801	-	-	1.368	-	-	8.169
Support - Operational/Site Activation Cost																		
Contractor Technical Support	-	-	0.320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	0.320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Support Equipment Cost																		
Maintenance Equipment	-	-	4.714	-	-	2.663	-	-	4.290	-	-	2.824	-	-	0.568	-	-	3.392
<i>Subtotal: Support - Support Equipment Cost</i>	-	-	4.714	-	-	2.663	-	-	4.290	-	-	2.824	-	-	0.568	-	-	3.392
Support - Training Cost																		
Equipment	-	-	10.255	-	-	4.346	-	-	5.582	-	-	4.745	-	-	0.954	-	-	5.699
<i>Subtotal: Support - Training Cost</i>	-	-	10.255	-	-	4.346	-	-	5.582	-	-	4.745	-	-	0.954	-	-	5.699
Gross/Weapon System Cost	13,351.692	65	867.860	12,168.521	48	584.089	10,875.338	71	772.149	11,726.733	30	351.802	11,166.667	6	67.000	11,633.389	36	418.802

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	46	49	11	6	17
	Total Obligation Authority	558.450	574.930	92.312	67.000	159.312
ANG	Quantity	2	22	19	-	19
	Total Obligation Authority	25.639	197.219	259.490	-	259.490
Total: Secondary Distribution	Quantity	48	71	30	6	36
	Total Obligation Authority	584.089	772.149	351.802	67.000	418.802

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 2073GZ0410 / 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	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	Dec 2017	Dec 2018	48	8,036.230			
MANUFACTURING ^(†)		2018	BAE / York	SS / FPIF	TACOM, Warren, MI	Aug 2018	Dec 2019	71	7,328.440			
MANUFACTURING ^(†)		2019	BAE / York	SS / FPIF	TACOM, Warren, MI	Jan 2019	Nov 2020	36	6,660.190			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: 2073GZ0410 / 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													B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
MANUFACTURING																																				
Prior Years Deliveries: 13																																				
	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	
	1	2019	ARMY	36	0	36																													36	

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: 2073GZ0410 / 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													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			
MANUFACTURING																																	
Prior Years Deliveries: 13																																	
1		2016	ARMY	30	17	13	2	3	2	3	3																						0
1		2017	ARMY	48	0	48			A -	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	8	
1		2018	ARMY	71	0	71																										71	
1		2019	ARMY	36	0	36																										36	

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: 2073GZ0410 / 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: 13																																		
1	2016	ARMY	30	30	0																													0
1	2017	ARMY	48	40	8	4	4																											0
1	2018	ARMY	71	0	71	-	-	6	6	6	6	6	6	6	6	6	6	5	6															0
1	2019	ARMY	36	0	36	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: 2073GZ0410 / Paladin Integrated Management (PIM)										Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 13																												
1	2016	ARMY	30	30	0																							0
1	2017	ARMY	48	48	0																							0
1	2018	ARMY	71	71	0																							0
1	2019	ARMY	36	33	3	3																						0

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: 2073GZ0410 / 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 2019	1-8-5 For 2019	MAX For 2019	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	4	22	26

Remarks:

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:
 3700GA0570 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	817	18	16	26	12	38	-	-	-	-	44	933
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,399.861	91.963	72.402	110.500	42.354	152.854	-	-	10.500	-	215.454	2,943.034
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,399.861	91.963	72.402	110.500	42.354	152.854	-	-	10.500	-	215.454	2,943.034
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,399.861	91.963	72.402	110.500	42.354	152.854	-	-	10.500	-	215.454	2,943.034

(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>)	2,937.406	5,109.056	4,525.125	4,250.000	3,529.500	4,022.474	-	-	-	-	4,896.682	3,154.377

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	18	10	26	12	38	-	-	-	-
Total Obligation Authority	91.963	54.419	110.500	42.354	152.854	-	-	10.500	-
ANG									
Quantity	-	6	-	-	-	-	-	-	-
Total Obligation Authority	-	17.983	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	18	16	26	12	38	-	-	-	-
Total Obligation Authority	91.963	72.402	110.500	42.354	152.854	-	-	10.500	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 3700GA0570 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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		817 / 2,399.861	18 / 91.963	16 / 72.402	26 / 110.500	12 / 42.354	38 / 152.854
P-40	Total Gross/Weapon System Cost				817 / 2,399.861	18 / 91.963	16 / 72.402	26 / 110.500	12 / 42.354	38 / 152.854

*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 2019 Base procurement dollars in the amount of \$110.500 million supports the vehicle production and the procurement of 26 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. The M88A2 HERCULES vehicles will address 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.

FY 2019 Overseas Contingency Operations (OCO) procurement dollars in the amount of \$42.354 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the vehicle production and the procurement of 12 M88A2 vehicles with M88 Family of Vehicles Operational Modifications cut-in during production.

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): 933

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 3700GA0570 / 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:			
Resource Summary		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)		817	18	16	26	12	38
Gross/Weapon System Cost (<i>\$ in Millions</i>)		2,399.861	91.963	72.402	110.500	42.354	152.854
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		2,399.861	91.963	72.402	110.500	42.354	152.854
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		2,399.861	91.963	72.402	110.500	42.354	152.854
<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>)		2,937.406	5,109.056	4,525.125	4,250.000	3,529.500	4,022.474

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)	2,144.996	817	1,752.462	3,379.056	18	60.823	2,967.313	16	47.477	3,227.154	26	83.906	3,289.917	12	39.479	3,246.974	38	123.385
Vehicle Manufacturing - GFE	-	-	95.255	-	-	1.169	-	-	1.058	-	-	1.756	-	-	0.811	-	-	2.567
System Technical Support	-	-	285.806	-	-	10.360	-	-	9.473	-	-	7.926	-	-	-	-	-	7.926
Program Management	-	-	76.105	-	-	9.838	-	-	9.574	-	-	7.433	-	-	-	-	-	7.433
Transportation	-	-	13.202	-	-	0.523	-	-	0.536	-	-	0.835	-	-	-	-	-	0.835
Fielding (TPF & NET)	-	-	90.030	-	-	1.111	-	-	1.389	-	-	4.169	-	-	-	-	-	4.169
Test (Production Verification Testing)	-	-	19.050	-	-	4.746	-	-	0.200	-	-	-	-	-	-	-	-	-
M88A1 Hull Reclamation	-	-	67.951	-	-	3.393	-	-	2.695	-	-	4.475	-	-	2.064	-	-	6.539
<i>Subtotal: Recurring Cost</i>	-	-	2,399.861	-	-	91.963	-	-	72.402	-	-	110.500	-	-	42.354	-	-	152.854
<i>Subtotal: Flyaway Cost</i>	-	-	2,399.861	-	-	91.963	-	-	72.402	-	-	110.500	-	-	42.354	-	-	152.854
Gross/Weapon System Cost	2,937.406	817	2,399.861	5,109.056	18	91.963	4,525.125	16	72.402	4,250.000	26	110.500	3,529.500	12	42.354	4,022.474	38	152.854

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	18	10	26	12	38

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 3700GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)

ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:				
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
	Total Obligation Authority	91.963	54.419	110.500	42.354	152.854
ANG	Quantity	-	6	-	-	-
	Total Obligation Authority	-	17.983	-	-	-
Total:	Quantity	18	16	26	12	38
Secondary Distribution	Total Obligation Authority	91.963	72.402	110.500	42.354	152.854

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 3700GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)				Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Vehicle Manufacturing - Contractor ^(†)		2017	BAE Systems / York PA	SS / FFP	TACOM	Sep 2017	Jan 2019	18	3,379.060	Y		
Vehicle Manufacturing - Contractor ^(†)		2018	BAE Systems / York PA	SS / FFP	TACOM	Apr 2018	Oct 2019	16	2,967.310	Y		
Vehicle Manufacturing - Contractor ^(†)		2019	BAE Systems / York PA	SS / FFP	TACOM	Mar 2019	Jun 2020	38	3,246.970	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2018 WTCV Base: Contract will procure 16 vehicles, plan for April 2018 award.

FY 2019 WTCV Base: Contract will procure 26 vehicles, plan for April 2019 award.

FY 2019 WTCV OCO: Contract will procure 12 vehicles, plan for April 2019 award.

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 3700GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)	Item Number / Title [DODIC]: GA0570 / Improved Recovery Vehicle (M88A2 HERCULES)
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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 #	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														
Vehicle Manufacturing - Contractor																																												
Prior Years Deliveries: 817																																												
1		2017	ARMY	18		0	18																						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	18	
1		2017	FMS †)	2		0	2																						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0
1		2017	Total	20		0	20																						-	-	-	-	-	-	-	-	-	-	-	-	-	2	18	
1		2018	ARMY	16		0	16																																					16
1		2019	ARMY	38		0	38																																					38

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: 3700GA0570 / 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 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				
Vehicle Manufacturing - Contractor																																		
Prior Years Deliveries: 817																																		
1		2017	ARMY	18	0	18	-	-	-	2	2	2	2	2	2	2	2																	0
1		2017	FMS (†)	2	2	0	-	-	-	-	-	-	-	-	-	-	-																	0
1		2017	Total	20	2	18	-	-	-	2	2	2	2	2	2	2	2																	0
1		2018	ARMY	16	0	16	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2								0
1		2019	ARMY	38	0	38																												24

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20										P-1 Line Item Number / Title: 3700GA0570 / 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												B A L A N C E	
O C C O	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: 817																															
	1	2017	ARMY	18	18	0																								0	
	1	2017	FMS (†)	2	2	0																								0	
	1	2017	Total	20	20	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2018	ARMY	16	16	0																							0		
	1	2019	ARMY	38	14	24	4	4	4	4	4	4																	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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: 3700GA0570 / 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 2019	1-8-5 For 2019	MAX For 2019	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	12	16	28	0	6	15	21

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 4520GZ3250 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	341.560	9.415	5.855	2.120	-	2.120	2.823	5.082	36.821	87.232	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	341.560	9.415	5.855	2.120	-	2.120	2.823	5.082	36.821	87.232	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	341.560	9.415	5.855	2.120	-	2.120	2.823	5.082	36.821	87.232	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>)	1,581.296	90.529	54.213	-	-	-	-	564.667	526.014	535.166	Continuing	Continuing

Description:

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.415	5.855	2.120	-	2.120	2.823	5.082	36.821	87.232
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.415	5.855	2.120	-	2.120	2.823	5.082	36.821	87.232

Justification:

FY 2019 Base procurement dollars in the amount of \$2.120 million supports:

The Assault Breacher Vehicle Full Width Mine Plow Tine Tip Modification consists of replacing the existing tines on each blade section with a tine adaptor and replaceable tip. The new tip will be held in place by a roll pin. The modification provides increased capability by strengthening the tine to resist bending in harder soils and the replaceable tip significantly reduces mean time to repair when tips become worn out. The upgrade will extend the service life of the plow, reduce down time and increase overall availability of the ABV.

The Abrams A2 Heavy Duty Suspension upgrade to the ABV. The upgrade will replace the obsolete A1 suspension and keep the ABV's suspension common to the current Abrams configuration. The change will keep the logistics footprint minimized, provide for growth for additional future force protection initiatives and should increase the suspension mean time between failures, increasing system availability.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 4520GZ3250 / 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		
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 4872G82925 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	113	0	7	12	-	12	5	4	5	8	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	434.824	2.928	34.221	62.407	-	62.407	31.699	23.065	29.198	46.848	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	434.824	2.928	34.221	62.407	-	62.407	31.699	23.065	29.198	46.848	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	434.824	2.928	34.221	62.407	-	62.407	31.699	23.065	29.198	46.848	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	3,848.000	-	4,888.714	5,200.583	-	5,200.583	6,339.800	5,766.250	5,839.600	5,856.000	Continuing	Continuing

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	7	-	7	5	4	5	8
	Total Obligation Authority	2.928	-	36.404	-	36.404	31.699	23.065	29.198	46.848
ANG	Quantity	-	7	5	-	5	-	-	-	-
	Total Obligation Authority	-	34.221	26.003	-	26.003	-	-	-	-
Total: Secondary Distribution	Quantity	-	7	12	-	12	5	4	5	8
	Total Obligation Authority	2.928	34.221	62.407	-	62.407	31.699	23.065	29.198	46.848

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 4872G82925 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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 / 434.824	0 / 2.928	7 / 34.221	12 / 62.407	- / -	12 / 62.407
P-40	Total Gross/Weapon System Cost				113 / 434.824	0 / 2.928	7 / 34.221	12 / 62.407	- / -	12 / 62.407

*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 2019 Base procurement dollars in the amount of \$62.407 million supports the procurement of 12 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: PB 2019 Army											Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: 4872G82925 / 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 2017			FY 2018			FY 2019 Base			FY 2019 OCO		FY 2019 Total	
Procurement Quantity (Units in Each)				113		0			7			12			-		12	
Gross/Weapon System Cost (\$ in Millions)				434.824		2.928			34.221			62.407			-		62.407	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				434.824		2.928			34.221			62.407			-		62.407	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Total Obligation Authority (\$ in Millions)				434.824		2.928			34.221			62.407			-		62.407	
<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)				3,848.000		-			4,888.714			5,200.583			-		5,200.583	

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 ^(†)	2,175.098	112	243.611	-	-	-	2,500.000	7	17.500	3,058.833	12	36.706	-	-	-	3,058.833	12	36.706
1. Full Width Mine Plow	316.895	76	24.084	-	-	-	385.000	4	1.540	423.125	8	3.385	-	-	-	423.125	8	3.385
2. Combat Dozer Blade	187.737	38	7.134	-	-	-	190.000	2	0.380	204.250	4	0.817	-	-	-	204.250	4	0.817
3. High Lift Adapter	186.625	112	20.902	-	-	-	215.000	7	1.505	245.000	12	2.940	-	-	-	245.000	12	2.940
4. Lane Marking System	165.884	112	18.579	-	-	-	215.000	7	1.505	242.250	12	2.907	-	-	-	242.250	12	2.907
5. Linear Demolition Control System	124.589	112	13.954	-	-	-	185.000	7	1.295	173.333	12	2.080	-	-	-	173.333	12	2.080
6. Integrated Vision System	360.089	112	40.330	-	-	-	430.000	7	3.010	581.167	12	6.974	-	-	-	581.167	12	6.974
7. Hull Integration Kit	16.000	112	1.792	-	-	-	16.000	7	0.112	16.333	12	0.196	-	-	-	16.333	12	0.196
8. Embedded Diagnostic Kit	56.250	112	6.300	-	-	-	75.000	7	0.525	78.500	12	0.942	-	-	-	78.500	12	0.942
9. Spares	236.842	19	4.500	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
System Engineering/ Program Management	-	-	22.000	-	-	1.928	-	-	2.850	-	-	1.600	-	-	-	-	-	1.600
Fielding	-	-	18.113	-	-	1.000	-	-	2.200	-	-	1.000	-	-	-	-	-	1.000
Data	-	-	7.550	-	-	-	-	-	1.799	-	-	-	-	-	-	-	-	-
Engineering Change Proposals	-	-	5.975	-	-	-	-	-	-	-	-	1.860	-	-	-	-	-	1.860

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 4872G82925 / 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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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: Recurring Cost</i>	-	-	434.824	-	-	2.928	-	-	34.221	-	-	62.407	-	-	-	-	-	62.407
<i>Subtotal: Flyaway Cost</i>	-	-	434.824	-	-	2.928	-	-	34.221	-	-	62.407	-	-	-	-	-	62.407
Gross/Weapon System Cost	3,848.000	113	434.824	-	0	2.928	4,888.714	7	34.221	5,200.583	12	62.407	-	-	-	5,200.583	12	62.407

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	7	-	7
	Total Obligation Authority	2.928	-	36.404	-	36.404
ANG	Quantity	-	7	5	-	5
	Total Obligation Authority	-	34.221	26.003	-	26.003
Total:	Quantity	0	7	12	-	12
Secondary Distribution	Total Obligation Authority	2.928	34.221	62.407	-	62.407

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 4872G82925 / 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	WR	TACOM, Warren	Feb 2018	Feb 2019	7	2,500.000	Y		
ABV Hardware ^(†)		2019	Anniston Army Depot- (ANAD) / Anniston, Al	WR	TACOM, Warren	Feb 2019	Feb 2020	12	3,058.830	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 4872G82925 / Assault Breacher Vehicle	Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle
----------------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------

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					
ABV Hardware																																			
Prior Years Deliveries: 112																																			
1		2018	ARMY	7	0	7																							0						
1		2019	ARMY	12	0	12																							12						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 4872G82925 / Assault Breacher Vehicle	Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle
----------------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------

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					
ABV Hardware																																			
Prior Years Deliveries: 112																																			
1		2018	ARMY	7		7	0																						0						
1		2019	ARMY	12		0	12	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 4872G82925 / 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 2019	1-8-5 For 2019	MAX For 2019	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: PB 2019 Army **Date:** February 2018

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:** 5129G80571 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	112.767	8.685	4.826	4.517	-	4.517	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	112.767	8.685	4.826	4.517	-	4.517	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	112.767	8.685	4.826	4.517	-	4.517	-	-	-	-	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>)	5,638.350	-	-	-	-	-	-	-	-	-	Continuing	Continuing

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.685	4.826	4.517	-	4.517	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.685	4.826	4.517	-	4.517	-	-	-	-

Justification:

FY 2019 base procurement dollars in the amount of \$4.517 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: PB 2019 Army **Date:** February 2018

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:** 5225GZ3001 / 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: X33

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	8	14	27	30	-	30	44	48	61	51	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	93.277	64.752	128.350	142.255	-	142.255	205.772	226.964	290.954	248.729	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	93.277	64.752	128.350	142.255	-	142.255	205.772	226.964	290.954	248.729	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	93.277	64.752	128.350	142.255	-	142.255	205.772	226.964	290.954	248.729	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>)	11,659.625	4,625.143	4,753.704	4,741.833	-	4,741.833	4,676.636	4,728.417	4,769.738	4,877.039	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 - Low Rate Initial Production (LRIP) 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 Army Acquisition Objective: 337

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	14	27	15	-	15	8	8	18	-
	Total Obligation Authority	64.752	128.350	71.127	-	71.127	37.413	37.827	85.855	-
ANG	Quantity	-	-	15	-	15	31	15	15	30
	Total Obligation Authority	-	-	71.128	-	71.128	144.976	70.926	71.546	146.311
AR	Quantity	-	-	-	-	-	5	25	28	21
	Total Obligation Authority	-	-	-	-	-	23.383	118.211	133.553	102.418
Total:	Quantity	14	27	30	-	30	44	48	61	51
Secondary Distribution	Total Obligation Authority	64.752	128.350	142.255	-	142.255	205.772	226.964	290.954	248.729

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 5225GZ3001 / 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: X33

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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		8 / 93.277	14 / 64.752	27 / 128.350	30 / 142.255	- / -	30 / 142.255
P-40	Total Gross/Weapon System Cost				8 / 93.277	14 / 64.752	27 / 128.350	30 / 142.255	- / -	30 / 142.255

*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 2019 Base Procurement dollars in the amount of \$142.255 million supports 30 Full Rate Production (FRP) Joint Assault Bridges (JAB) for Active Army and Army National Guard 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.

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

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: 5225GZ3001 / Joint Assault Bridge
		Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	8	14	27	30	-	30
Gross/Weapon System Cost (\$ in Millions)	93.277	64.752	128.350	142.255	-	142.255
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	93.277	64.752	128.350	142.255	-	142.255
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	93.277	64.752	128.350	142.255	-	142.255

(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)	11,659.625	4,625.143	4,753.704	4,741.833	-	4,741.833

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 ^(†)	2,056.800	10	20.568	1,296.000	14	18.144	1,250.000	27	33.750	1,347.567	30	40.427	-	-	-	1,347.567	30	40.427
GFM ANAD Rolling Chassis	2,748.800	10	27.488	2,429.429	14	34.012	2,478.000	27	66.906	2,526.100	30	75.783	-	-	-	2,526.100	30	75.783
Bridge Upgrades	400.000	10	4.000	458.571	14	6.420	469.000	27	12.663	476.833	30	14.305	-	-	-	476.833	30	14.305
Engineering Changes	-	-	13.387	-	-	-	-	-	2.832	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	15.000	-	-	4.500	-	-	3.652	-	-	4.259	-	-	-	-	-	4.259
Support Equipment/ ASIOE	-	-	6.584	-	-	0.676	-	-	0.107	-	-	-	-	-	-	-	-	-
Fielding	-	-	1.300	-	-	1.000	-	-	8.440	-	-	0.500	-	-	-	-	-	0.500
Subtotal: Recurring Cost	-	-	88.327	-	-	64.752	-	-	128.350	-	-	135.274	-	-	-	-	-	135.274
Non Recurring Cost																		
Logistics Products	-	-	4.950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Simulator - Common Driver Trainer (CDT) Update	-	-	-	-	-	-	-	-	-	-	-	6.981	-	-	-	-	-	6.981
Subtotal: Non Recurring Cost	-	-	4.950	-	-	-	-	-	-	-	-	6.981	-	-	-	-	-	6.981
Subtotal: Flyaway Cost	-	-	93.277	-	-	64.752	-	-	128.350	-	-	142.255	-	-	-	-	-	142.255
Gross/Weapon System Cost	11,659.625	8	93.277	4,625.143	14	64.752	4,753.704	27	128.350	4,741.833	30	142.255	-	-	-	4,741.833	30	142.255

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 5225GZ3001 / 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:**

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	14	27	15	-	15
	Total Obligation Authority	64.752	128.350	71.127	-	71.127
ANG	Quantity	-	-	15	-	15
	Total Obligation Authority	-	-	71.128	-	71.128
Total:	Quantity	14	27	30	-	30
Secondary Distribution	Total Obligation Authority	64.752	128.350	142.255	-	142.255

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 5225GZ3001 / 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 ^(†)		2017	DRS Sustainment Systems, INC / Saint Louis, MO	C / FFP	TACOM, Warren, MI	Dec 2016	Apr 2018	14	1,296.000	Y		
Hardware ^(†)		2018	DRS Sustainment Systems, INC / Saint Louis, MO	C / FFP	TACOM, Warren, MI	Dec 2017	Apr 2019	27	1,250.000	Y		
Hardware ^(†)		2019	DRS Sustainment Systems, INC / Saint Louis, MO	C / FFP	TACOM, Warren, MI	Dec 2018	Apr 2020	30	1,347.570	Y		

^(†) indicates the presence of a P-21

Remarks:

Full Rate Production (FRP) is scheduled for a third quarter FY 2019 award.

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

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 **P-1 Line Item Number / Title:** 5225GZ3001 / Joint Assault Bridge **Item Number / Title [DODIC]:** GZ3001 / Joint Assault Bridge

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018													BALANCE				
O C C #	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					
Hardware																																			
Prior Years Deliveries: 10																																			
	1	2017	ARMY	14	0	14			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	8
	1	2018	ARMY	27	0	27																													27
	1	2019	ARMY	30	0	30																													30
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 **P-1 Line Item Number / Title:** 5225GZ3001 / Joint Assault Bridge **Item Number / Title [DODIC]:** GZ3001 / Joint Assault Bridge

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
Hardware																															
Prior Years Deliveries: 10																															
1		2017	ARMY	14	6	8	1	1	1	1	2	2																	0		
1		2018	ARMY	27	0	27	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	3	3	3					0		
1		2019	ARMY	30	0	30			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	2	2	14	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 **P-1 Line Item Number / Title:** 5225GZ3001 / Joint Assault Bridge **Item Number / Title [DODIC]:** GZ3001 / Joint Assault Bridge

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
Hardware																															
Prior Years Deliveries: 10																															
	1	2017	ARMY	14	14	0																							0		
	1	2018	ARMY	27	27	0																							0		
	1	2019	ARMY	30	16	14	2	2	2	2	3	3																	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: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 5225GZ3001 / 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 2019	1-8-5 For 2019	MAX For 2019	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	3	16	19	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: PB 2019 Army **Date:** February 2018

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:** 6406GA0700 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5,867.628	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,867.628	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5,867.628	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432	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>)	-	8,200.733	6,458.767	-	-	-	-	-	-	-	Continuing	Continuing

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 Modifications) 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 executes a series of Engineering Change Proposals (ECPs) to address capability gaps in 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 (Power) addresses network interoperability and system shortfalls in electrical power to enable integration of approved requirements, increased survivability and an electronics refresh to address obsolescence and improve sustainability. Specifically, the upgrades include an updated Handheld Manpack Small (HMS) communication system, a new 1000 amp generator, an updated power management distribution system (new slip ring, battery monitoring system, and Auxiliary Power Unit (APU)), the integration of the Counter Radio-Controlled IED Electronic Warfare (CREW/Duke3), Next Generation Armor, Ammunition Data Link (ADL) to optimize smart round effects, and the upgrade of line replaceable units (LRUs) to line replaceable modules (LRMs).

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:**
 6406GA0700 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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)		A		- / 5,867.628	- / 492.044	- / 387.526	- / 927.600	- / 34.000	- / 961.600
P-40	Total Gross/Weapon System Cost				- / 5,867.628	- / 492.044	- / 387.526	- / 927.600	- / 34.000	- / 961.600

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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)		A		- / 284.209	- / 289.323	- / 269.175	- / 286.432	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 284.209	- / 289.323	- / 269.175	- / 286.432	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 2019 base procurement dollars in the amount of \$927.600 million support the procurement and field application of the following efforts: procurement and field application of the Ammunition Data Link (ADL) and Common Remote Operated Weapon Station Low Profile (CROWS-LP), and continued 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, and equipment at Allison Transmission Indianapolis, IN facility, General Dynamics Tallahassee, FL and Scranton, PA facilities, and Raytheon and DRS facilities to support the start of production, produce efficiently at low volumes, and maintain the Abrams tank manufacturing capability. The funding strategy includes analysis and direct targeted investment of the Abrams Industrial Base (IB) including procurement of critical tank components and critical technical engineering efforts, to include qualification of an alternate source of supply for tank components. Addressing these efforts ensures the preservation of the Abrams IB and minimizes the manufacturing and technical engineering capability risks. The increase in base funding will support the procurement of 282 Active Protection Systems (APS) and countermeasures for the Abrams Tank, which is critical to counter anti-armor capabilities in near-peer adversaries.

FY 2019 OCO procurement dollars in the amount of \$34.000 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the installation of 87 Active Protection Systems (APS) and countermeasures 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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods

ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5,867.628	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,867.628	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5,867.628	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	8,200.733	6,458.767	-	-	-	-	-	-	-	Continuing	Continuing

Description:

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 combat. Field modifications include Blue Force Tracking (BFT) 2 and Mounted Family of Computer System (MFoCS), Ammunition Data Link (ADL), Common Remote Operated Weapon Station Low Profile (CROWS-LP), lightweighting, or any other gap identified by the Combat or Material Developer. 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 determined by funding availability. Installation costs are included in the contractor costs and cannot be broken out. Contractor dates will vary by individual component. Additionally, this modification line funds testing as well as System Technical Support (STS) from General Dynamics Land Systems (GDLS), General Dynamics Canada (GDC), Raytheon, and DRS Technologies. Formerly, these costs were funded in the Abrams 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 fielding. Vehicle Health Management System and Embedded Training (VEM) will be funded under MOD 3 since it will no longer be a field mod upgrade.

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 (JAAPU). Provides funding for the 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 critical engineering capability at risk. Critical components and parts include, but are not limited to, the Abrams Transmission, 2nd Generation Forward-Looking-Infrared (FLIR) sensor, and Vehicle Health Management System and Embedded Training (VEM).

Armor (MOD 4): The Department of Energy (DOE) provides Abrams Armor. PM Abrams kept the armor facility 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 are applied during ECP 1A vehicle recapitalization.

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.

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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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 a more reliable, durable, and fuel-efficient power pack. It also establishes 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. The qualification of an alternate source of supply for powertrain components will be analyzed. Contractor dates will vary by item.

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, embedded training, procurement cost of the hardware associated with modifications to existing training devices, and field installation at the unit.

Facilities Optimization and Maintenance (MOD 8): This funding supports the maintenance, optimization, and modernization of the production facility and equipment at the Joint Systems Manufacturing Center, Lima, OH, Watervliet Arsenal, Albany, NY, Anniston Army Depot, Anniston, AL, Allison Transmission, Indianapolis, IN, General Dynamics Tallahassee, FL and Scranton, PA facilities, Raytheon and DRS facilities, and any other facility that is involved in the support or production of Abrams tanks. Funding will be used to address facilities maintenance, deferred facilities maintenance projects, internal restructuring of manufacturing facilities and equipment, as well as operational energy improvements necessary to optimize facilities and production lines in an effort to increase efficiency at future forecasted manufacturing rates. These efforts will include, but are not limited to 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, and the establishment of new/optimized manufacturing lines and layouts.

Survivability Enhancements (MOD 9): This funding supports the procurement and field application of Active and Passive Protection Systems, countermeasures, components and labor to optimize the safety and survivability of the Abrams main battle tank. These modifications correct or alleviate operational deficiencies, improve reliability and maintainability, correct faulty performance or quality, reduce logistic 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 Active Protection systems began in FY 2018, installation and additional procurement will occur in FY 2019. Application both as a field modification and on new variants on the production line will be continuous.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)					Modification Number / Title: GA0700 / Mods			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: Abrams Family of Vehicles				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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	- / 2,842.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Subtotal: Non-Recurring	- / 2,842.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Subtotal: Prior Year Closed Mods	- / 2,842.034	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Modification Item 2 of 9: Abrams Field Upgrades													
A Kits													
Recurring													
ARAT Weldments	- / -	- / -	- / -	- / -	- / -	- / -	87 / 0.831	180 / 1.753	180 / 1.788	180 / 1.824	- / 0.000	627 / 6.196	
CROWS-LP A and B Kits & ICDU upgrade	315 / 49.803	150 / 13.403	287 / 53.954	213 / 57.065	- / -	213 / 57.065	251 / 46.962	143 / 28.867	147 / 40.140	131 / 39.908	- / 0.000	1,637 / 330.102	
VEM	45 / 2.686	60 / 7.828	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	105 / 10.514	
Ammunition Data Link (ADL)	405 / 59.281	60 / 2.153	90 / 8.699	90 / 28.061	- / -	90 / 28.061	90 / 11.412	180 / 23.242	180 / 24.745	180 / 25.209	- / 0.000	1,275 / 182.802	
Maintenance Support Device Hard Drive	- / -	- / 0.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Support Equipment and TPF	- / 122.156	- / 17.063	- / 16.246	- / 18.000	- / -	- / 18.000	- / 20.982	- / 20.064	- / 20.466	- / 20.875	- / -	Continuing	Continuing
System Technical Support	- / 269.831	- / 56.284	- / 73.767	- / 76.370	- / -	- / 76.370	- / 77.723	- / 79.312	- / 77.590	- / 78.403	- / -	Continuing	Continuing
Test Support	- / -	- / -	- / 7.226	- / 10.090	- / -	- / 10.090	- / 10.291	- / 17.864	- / 8.024	- / 8.184	- / -	Continuing	Continuing
Ammunition Data Link (ADL) AMP Round	- / -	- / -	- / -	- / -	- / -	- / -	180 / 21.151	180 / 21.574	180 / 22.006	180 / 22.446	- / 0.000	720 / 87.177	
Vehicle Generated Smoke	- / -	- / -	- / -	- / -	- / -	- / -	90 / 4.936	180 / 10.070	180 / 10.272	180 / 10.477	- / 0.000	630 / 35.755	
Subtotal: Recurring	765 / 503.757	270 / 97.241	377 / 159.892	303 / 189.586	- / -	303 / 189.586	698 / 194.288	863 / 202.746	867 / 205.031	851 / 207.326	Continuing	Continuing	
Non-Recurring													
Installation Kits	- / 283.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 283.400	
CROWS-LP Engineering Support	- / 6.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.283	
Subtotal: Non-Recurring	- / 289.683	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 289.683	
Subtotal: Abrams Field Upgrades	765 / 793.440	270 / 97.241	377 / 159.892	303 / 189.586	- / -	303 / 189.586	698 / 194.288	863 / 202.746	867 / 205.031	851 / 207.326	Continuing	Continuing	
Modification Item 3 of 9: Engineering Change Proposal 1A													
A Kits													
Recurring													
ECP 1a Modification Kits	45 / 92.478	60 / 175.637	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)						Modification Number / Title: GA0700 / Mods		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: Abrams Family of Vehicles				Modification Type: Increase Performance				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
<i>Subtotal: Recurring</i>	45 / 92.478	60 / 175.637	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Engineering Change Proposal 1A</i>	45 / 92.478	60 / 175.637	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	Continuing	Continuing
Modification Item 4 of 9: Armor												
A Kits												
Recurring												
Armor Sets	114 / 160.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	114 / 160.480
Next Generation Armor	45 / 68.000	60 / 73.134	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	105 / 141.134
<i>Subtotal: Recurring</i>	159 / 228.480	60 / 73.134	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	219 / 301.614
Non-Recurring												
Installation Kits	821 / 526.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	821 / 526.800
<i>Subtotal: Non-Recurring</i>	821 / 526.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	821 / 526.800
<i>Subtotal: Armor</i>	980 / 755.280	60 / 73.134	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	1,040 / 828.414
Modification Item 5 of 9: Program/Engineering Support												
A Kits												
Recurring												
Government Program Support	- / 131.106	- / 31.944	- / 9.956	- / 13.785	- / -	- / 13.785	- / 14.060	- / 14.342	- / 14.629	- / 14.921	Continuing	Continuing
Contractor Program Support	- / 13.963	- / 2.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Government Test Support	- / 8.454	- / 17.858	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Recurring</i>	- / 153.523	- / 52.062	- / 9.956	- / 13.785	- / -	- / 13.785	- / 14.060	- / 14.342	- / 14.629	- / 14.921	Continuing	Continuing
<i>Subtotal: Program/Engineering Support</i>	- / 153.523	- / 52.062	- / 9.956	- / 13.785	- / -	- / 13.785	- / 14.060	- / 14.342	- / 14.629	- / 14.921	Continuing	Continuing
Modification Item 6 of 9: Power Pack Improvement and Integration												
A Kits												
Recurring												
System Technical Support	- / 123.242	- / 14.303	- / 11.627	- / 11.700	- / -	- / 11.700	- / 12.200	- / 12.160	- / 13.000	- / 12.653	Continuing	Continuing
<i>Subtotal: Recurring</i>	- / 123.242	- / 14.303	- / 11.627	- / 11.700	- / -	- / 11.700	- / 12.200	- / 12.160	- / 13.000	- / 12.653	Continuing	Continuing
Non-Recurring												
Installation Kits	2,691 / 930.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Non-Recurring</i>	2,691 / 930.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Power Pack Improvement and Integration</i>	2,691 / 1,053.542	- / 14.303	- / 11.627	- / 11.700	- / -	- / 11.700	- / 12.200	- / 12.160	- / 13.000	- / 12.653	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20					P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)					Modification Number / Title: GA0700 / Mods			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: Abrams Family of Vehicles			Modification Type: Increase Performance					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Modification Item 7 of 9: Training Devices													
A Kits													
Recurring													
Training Equipment Modifications	- / 124.983	- / 19.613	- / 13.089	- / 19.656	- / -	- / 19.656	- / 20.897	- / 20.647	- / 11.423	- / 9.365	Continuing	Continuing	
Subtotal: Recurring	- / 124.983	- / 19.613	- / 13.089	- / 19.656	- / -	- / 19.656	- / 20.897	- / 20.647	- / 11.423	- / 9.365	Continuing	Continuing	
Subtotal: Training Devices	- / 124.983	- / 19.613	- / 13.089	- / 19.656	- / -	- / 19.656	- / 20.897	- / 20.647	- / 11.423	- / 9.365	Continuing	Continuing	
Modification Item 8 of 9: Facilities Optimization and Maintenance													
A Kits													
Recurring													
Production Line Optimization	- / 52.348	- / 16.278	- / 10.658	- / 108.197	- / -	- / 108.197	- / 39.665	- / 39.428	- / 25.092	- / 42.167	Continuing	Continuing	
Subtotal: Recurring	- / 52.348	- / 16.278	- / 10.658	- / 108.197	- / -	- / 108.197	- / 39.665	- / 39.428	- / 25.092	- / 42.167	Continuing	Continuing	
Subtotal: Facilities Optimization and Maintenance	- / 52.348	- / 16.278	- / 10.658	- / 108.197	- / -	- / 108.197	- / 39.665	- / 39.428	- / 25.092	- / 42.167	Continuing	Continuing	
Modification Item 9 of 9: Survivability Enhancements													
A Kits													
Recurring													
Active Protection System (APS)	- / -	- / -	- / 10.469	- / 55.228	- / -	- / 55.228	- / -	- / -	- / -	- / -	- / 0.000	- / 65.697	
Subtotal: Recurring	- / -	- / -	- / 10.469	- / 55.228	- / -	- / 55.228	- / -	- / -	- / -	- / -	- / -	- / 65.697	
Non-Recurring													
Turret Mitigation	- / -	- / -	- / -	- / 138.600	- / -	- / 138.600	- / -	- / -	- / -	- / -	- / 0.000	- / 138.600	
Subtotal: Non-Recurring	- / -	- / -	- / -	- / 138.600	- / -	- / 138.600	- / -	- / -	- / -	- / -	- / -	- / 138.600	
B Kits													
Recurring													
APS	- / -	- / -	87 / 111.214	282 / 339.855	- / -	282 / 339.855	- / -	- / -	- / -	- / -	- / 0.000	369 / 451.069	
Subtotal: Recurring	- / -	- / -	87 / 111.214	282 / 339.855	- / -	282 / 339.855	- / -	- / -	- / -	- / -	- / -	369 / 451.069	
Non-Recurring													
Countermeasures - APS	- / -	- / -	- / 17.017	- / 50.993	- / 32.839	- / 83.832	- / -	- / -	- / -	- / -	- / 0.000	- / 100.849	
Subtotal: Non-Recurring	- / -	- / -	- / 17.017	- / 50.993	- / 32.839	- / 83.832	- / -	- / -	- / -	- / -	- / -	- / 100.849	
Subtotal: Survivability Enhancements	- / -	- / -	87 / 118.700	282 / 584.676	- / 32.839	282 / 617.515	- / -	- / -	- / -	- / -	- / -	369 / 756.215	
Subtotal: Procurement, All Modification Items	4,481 / 5,867.628	390 / 448.268	464 / 343.922	585 / 927.600	- / 32.839	585 / 960.439	698 / 281.110	863 / 289.323	867 / 269.175	851 / 286.432	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

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

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Installation												
<i>Modification Item 3 of 9:</i> Engineering Change Proposal 1A	- / -	45 / 43.776	60 / 43.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 87.380
<i>Modification Item 9 of 9:</i> Survivability Enhancements	- / -	- / -	- / -	- / -	87 / 1.161	87 / 1.161	282 / 3.099	- / -	- / -	- / -	- / -	369 / 4.260
<i>Subtotal: Installation</i>	0 / 0.000	45 / 43.776	60 / 43.604	0 / 0.000	87 / 1.161	87 / 1.161	282 / 3.099	- / -	- / -	- / -	- / -	474 / 91.640
Total												
Total Cost (Procurement + Support + Installation)	5,867.628	492.044	387.526	927.600	34.000	961.600	284.209	289.323	269.175	286.432	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor Teams (Contractor dates will vary by item and cannot be predicted)					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 3 of 9: Engineering Change Proposal 1A

Manufacturer Information

Manufacturer Name: General Dynamics and Anniston Army Depot Manufacturer Location: ANAD Alabama and JSMC Lima Ohio

Administrative Leadtime (in Months): 6 Production Leadtime (in Months): 24

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017						
Delivery Dates	Dec 2018						

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	45 / 43.776	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 43.776
FY 2017	- / -	- / -	60 / 43.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 43.604
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	45 / 43.776	60 / 43.604	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	105 / 87.380

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	8	23	20	19	21	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	8	23	20	19	21	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods		
ID Code (A=Service Ready, B=Not Service Ready) : A				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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Apr 2017						
Delivery Dates	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: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Delivery Dates	Nov 2016	Nov 2017	Nov 2018	Nov 2018	Nov 2019	Nov 2020	Nov 2021
Installation Information							
Method of Implementation (Organic): Various					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
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	

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various (Contractor dates will vary by item and cannot be predicted)						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
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: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods
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ID Code (A=Service Ready, B=Not Service Ready) : A	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
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10
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Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Mar 2018	Dec 2018				
Delivery Dates		Jan 2019	Oct 2019				

Installation Information

Method of Implementation: Contract FFP

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	87 / 1.161	87 / 1.161	- / -	- / -	- / -	- / -	- / -	87 / 1.161
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	282 / 3.099	- / -	- / -	- / -	- / -	282 / 3.099
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	87 / 1.161	87 / 1.161	282 / 3.099	- / -	- / -	- / -	- / -	369 / 4.260

Installation Schedule

PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	-	-	-	30	30	27	66	110	106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	369
Out	-	-	-	-	-	-	-	-	-	10	30	30	43	70	120	66	-	-	-	-	-	-	-	-	-	-	-	-	-	369

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 6500GA0750 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1,264	24	56	95	40	135	92	63	64	80	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9,049.107	276.829	717.800	1,075.999	455.000	1,530.999	1,118.156	801.009	832.481	1,044.492	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	2,064.494	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Net Procurement (P-1) (<i>\$ in Millions</i>)	6,984.613	276.829	717.800	1,075.999	455.000	1,530.999	1,118.156	801.009	832.481	1,044.492	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	2,064.494	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Total Obligation Authority (<i>\$ in Millions</i>)	9,049.107	276.829	717.800	1,075.999	455.000	1,530.999	1,118.156	801.009	832.481	1,044.492	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	7,159.104	11,534.542	12,817.857	11,326.305	11,375.000	11,340.733	12,153.870	12,714.429	13,007.516	13,056.150	Continuing	Continuing

Description:

The purpose of this program is to upgrade M1A1 variant tanks to the M1A2 System Enhancement Package Version 3 (SEPV3) (ECP 1A) tank configuration in order to enhance tank survivability, the automotive power pack, computer systems, and night vision capabilities. The M1A2 SEPV3 (ECP 1A) incorporates turret and hull armor upgrades for enhanced crew survivability; Total Integrated Engine Revitalization (TIGER) engine and upgraded transmission for improved power pack reliability and durability; improved computer systems to include microprocessors, color flat panel displays, memory capacity, Soldier-Machine Interface (SMI), a new operating system designed to run the Common Operating Environment (COE) software; and Block 1 Second Generation Forward Looking Infra-Red (FLIR) technology in the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) Sight Assembly for improved thermal ranging night vision capabilities. The Abrams Upgrade Program will modify and upgrade the Abrams tank while improving and maintaining production processes that involve or support the Abrams Industrial Base requirements for the current and future Abrams tank.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	
Army										
	Quantity	24	56	95	40	135	92	63	64	80
	Total Obligation Authority	276.829	717.800	1,075.999	455.000	1,530.999	1,118.156	801.009	832.481	1,044.492
Total:										
Secondary Distribution	Quantity	24	56	95	40	135	92	63	64	80
	Total Obligation Authority	276.829	717.800	1,075.999	455.000	1,530.999	1,118.156	801.009	832.481	1,044.492

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 6500GA0750 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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		1,264 / 9,049.107	24 / 276.829	56 / 717.800	95 / 1,075.999	40 / 455.000	135 / 1,530.999
P-40	Total Gross/Weapon System Cost				1,264 / 9,049.107	24 / 276.829	56 / 717.800	95 / 1,075.999	40 / 455.000	135 / 1,530.999

*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 2019 Base Procurement dollars in the amount of \$1,075.999 million supports the upgrade of 95 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 2019 OCO Procurement dollars in the amount of \$455.000 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will procure 40 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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: 6500GA0750 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	1,264	24	56	95	40	135
Gross/Weapon System Cost (\$ in Millions)	9,049.107	276.829	717.800	1,075.999	455.000	1,530.999
Less PY Advance Procurement (\$ in Millions)	2,064.494	0.000	0.000	0.000	-	0.000
Net Procurement (P-1) (\$ in Millions)	6,984.613	276.829	717.800	1,075.999	455.000	1,530.999
Plus CY Advance Procurement (\$ in Millions)	2,064.494	0.000	0.000	0.000	-	0.000
Total Obligation Authority (\$ in Millions)	9,049.107	276.829	717.800	1,075.999	455.000	1,530.999

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	7,159.104	11,534.542	12,817.857	11,326.305	11,375.000	11,340.733

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Basic Vehicle ^(†)	3,860.237	1,611	6,218.842	5,939.750	24	142.554	6,019.268	56	337.079	6,131.074	95	582.452	6,122.275	40	244.891	6,128.467	135	827.343
Government Furnished Equipment (GFE)	-	-	1,173.011	-	-	84.923	-	-	228.805	-	-	325.919	-	-	137.620	-	-	463.539
Pre-Modification Vehicle Teardown/ Refurb	-	-	1.900	-	-	14.582	-	-	34.355	-	-	58.605	-	-	24.676	-	-	83.281
TPF/New Equipment Training	-	-	197.117	-	-	4.699	-	-	25.282	-	-	10.247	-	-	8.997	-	-	19.244
Government Support	-	-	1,124.395	-	-	2.228	-	-	23.759	-	-	24.123	-	-	8.041	-	-	32.164
Transmissions	-	-	141.273	-	-	4.728	-	-	15.776	-	-	21.956	-	-	9.297	-	-	31.253
Forward Looking Infrared (FLIR)	-	-	97.808	-	-	23.115	-	-	52.744	-	-	51.014	-	-	21.478	-	-	72.492
Industrial Base Mitigation Support	-	-	94.761	-	-	-	-	-	-	-	-	1.683	-	-	-	-	-	1.683
<i>Subtotal: Recurring Cost</i>	-	-	9,049.107	-	-	276.829	-	-	717.800	-	-	1,075.999	-	-	455.000	-	-	1,530.999
<i>Subtotal: Flyaway Cost</i>	-	-	9,049.107	-	-	276.829	-	-	717.800	-	-	1,075.999	-	-	455.000	-	-	1,530.999
Gross/Weapon System Cost	7,159.104	1,264	9,049.107	11,534.542	24	276.829	12,817.857	56	717.800	11,326.305	95	1,075.999	11,375.000	40	455.000	11,340.733	135	1,530.999

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	24	56	95	40	135
	Total Obligation Authority	276.829	717.800	1,075.999	455.000	1,530.999
Total:	Quantity	24	56	95	40	135
Secondary Distribution	Total Obligation Authority	276.829	717.800	1,075.999	455.000	1,530.999

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6500GA0750 / 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	Dec 2017	Jun 2019	24	5,939.750			
Basic Vehicle ^(†)		2018	GDLS / Sterling Heights, MI	SS / FPIF	TACOM-Warren	Dec 2017	Sep 2019	56	6,019.270			
Basic Vehicle ^(†)		2019	GDLS / Sterling Heights, MI	SS / FPIF	TACOM- Warren	Mar 2019	Jul 2020	135	6,128.470			

^(†) 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: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 **P-1 Line Item Number / Title:** 6500GA0750 / Abrams Upgrade Program **Item Number / Title [DODIC]:** GA0750 / Abrams Upgrade Program

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
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	24	0	24																							24		
1		2018	ARMY	56	0	56																							56		
1		2019	ARMY	135	0	135																							135		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 **P-1 Line Item Number / Title:** 6500GA0750 / Abrams Upgrade Program **Item Number / Title [DODIC]:** GA0750 / Abrams Upgrade Program

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019													Fiscal Year 2020													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 8	BAL D U E A S O F 1 O C T	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Basic Vehicle																																	
Prior Years Deliveries: 1605																																	
1		2015	ARMY	6	6	0																							0				
1		2017	ARMY	24	0	24	-	-	-	-	-	-	-	-	1	2	5	11	5											0			
1		2018	ARMY	56	0	56	-	-	-	-	-	-	-	-	-	-	2	5	5	4	8	7	6	6	6	6	1	0					
1		2019	ARMY	135	0	135																						113					

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 **P-1 Line Item Number / Title:** 6500GA0750 / Abrams Upgrade Program **Item Number / Title [DODIC]:** GA0750 / Abrams Upgrade Program

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			
Basic Vehicle																																	
Prior Years Deliveries: 1605																																	
1		2015	ARMY	6	6	0																							0				
1		2017	ARMY	24	24	0																							0				
1		2018	ARMY	56	56	0																							0				
1		2019	ARMY	135	22	113	12	12	12	13	12	13	13	13	13														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: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	14	17	31	0	6	16	22

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 5960GA0050 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	385.567	37.500	-	-	-	-	-	-	-	-	-	423.067
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	385.567	37.500	-	-	-	-	-	-	-	-	-	423.067
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	385.567	37.500	-	-	-	-	-	-	-	-	-	423.067

(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.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	37.500	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	37.500	-	-	-	-	-	-	-	-

Justification:

There is no FY 2019 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: PB 2019 Army **Date:** February 2018

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: 1696G16101 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.380	7.064	-	-	-	-	-	-	-	-	-	7.444
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.380	7.064	-	-	-	-	-	-	-	-	-	7.444
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.380	7.064	-	-	-	-	-	-	-	-	-	7.444

(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>)	-	67.276	-	-	-	-	-	-	-	-	-	70.895

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.064	-	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.064	-	-	-	-	-	-	-	-

Justification:

There is no FY2019 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: PB 2019 Army **Date:** February 2018

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: 2472G13000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	780.189	-	1.992	1.955	0.126	2.081	-	-	103.072	159.912	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	780.189	-	1.992	1.955	0.126	2.081	-	-	103.072	159.912	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	780.189	-	1.992	1.955	0.126	2.081	-	-	103.072	159.912	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,213.358	-	-	10.289	10.500	10.302	-	-	-	-	Continuing	Continuing

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	1.992	1.955	0.126	2.081	-	-	103.072	159.912
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	1.992	1.955	0.126	2.081	-	-	103.072	159.912

Justification:

FY 2019 Base procurement dollars in the amount of \$1.955 million supports the Active Army by purchasing 169 coaxial M240's and requisite ancillary equipment and fielding support for mounted operations. Additional M240s are required to address Grow the Army requirements for Stryker vehicles and M1A2 tanks and new platform vehicles (Mobile Protected Firepower).

FY 2019 Overseas Contingency Operations (OCO) in the amount of \$0.126 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the procurement of 11 coaxial M240's and requisite ancillary equipment and fielding support for mounted operations.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 2472G13000 / 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		
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.		
AAO: 55,416		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	6.520	23.345	-	23.345	19.542	18.008	40.251	36.606	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	6.520	23.345	-	23.345	19.542	18.008	40.251	36.606	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	6.520	23.345	-	23.345	19.542	18.008	40.251	36.606	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	76.291	-	76.291	77.241	78.296	75.236	77.555	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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	6.520	22.302	-	22.302	15.668	14.134	36.377	32.732
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	1.043	-	1.043	3.874	3.874	3.874	3.874
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	6.520	23.345	-	23.345	19.542	18.008	40.251	36.606

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	P-5a	B		- / -	- / -	- / 6.520	- / 23.345	- / -	- / 23.345
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / 6.520	- / 23.345	- / -	- / 23.345

*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:
 FY2019 base procurement dollars in the amount of \$23.345 million supports the Active Army and National Guard through the procurement of 300 M3A1 Lightweight recoilless rifle/launcher weapon systems, fire control, sub caliber adapters and initial spares. 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. Funds will also provide for all other program support.

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.

AAO: 2,460

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	Item Number / Title [DODIC]: G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	6.520	23.345	-	23.345
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	6.520	23.345	-	23.345
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	6.520	23.345	-	23.345

(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)	-	-	70.108	76.291	-	76.291

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
M3A1 ^(†)	-	-	-	-	-	-	27.419	93	2.550	32.000	300	9.600	-	-	-	32.000	300	9.600
Fire Control ^(††)	-	-	-	-	-	-	25.161	93	2.340	32.000	300	9.600	-	-	-	32.000	300	9.600
Sub Caliber Apdapter ^(†)	-	-	-	-	-	-	5.914	93	0.550	6.593	300	1.978	-	-	-	6.593	300	1.978
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>5.440</i>	-	-	<i>21.178</i>	-	-	-	-	-	<i>21.178</i>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<i>5.440</i>	-	-	<i>21.178</i>	-	-	-	-	-	<i>21.178</i>
Support - Contractor Logistics Support (CLS) Cost																		
Oversight	-	-	-	-	-	-	-	-	-	-	-	0.188	-	-	-	-	-	0.188
<i>Subtotal: Support - Contractor Logistics Support (CLS) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.188</i>	-	-	-	-	-	<i>0.188</i>
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	0.530	-	-	0.626	-	-	-	-	-	0.626
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	<i>0.530</i>	-	-	<i>0.626</i>	-	-	-	-	-	<i>0.626</i>
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	-	-	-	-	-	-	-	-	-	0.691	-	-	-	-	-	0.691

LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL
WEA...
Army

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	Item Number / Title [DODIC]: G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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: Support - New Equipment Training (NET) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.691	-	-	-	-	-	0.691
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	0.550	-	-	0.662	-	-	-	-	-	0.662
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	0.550	-	-	0.662	-	-	-	-	-	0.662
Gross/Weapon System Cost	-	-	-	-	-	-	70.108	-	6.520	76.291	-	23.345	-	-	-	76.291	-	23.345

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	6.520	22.302	-	22.302
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	1.043	-	1.043
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	6.520	23.345	-	23.345

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10			P-1 Line Item Number / Title: 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM				Item Number / Title [DODIC]: G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM					

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
M3A1		2018	Saab Dynamics AB / Sweden	SS / IDIQ	ACC-NJ, Picatinny Arsenal, NJ	Apr 2018	Jul 2018	93	27.420	Y		
M3A1		2019	Saab Dynamics AB / Sweden	SS / IDIQ	ACC-NJ, Picatinny Arsenal, NJ	Dec 2018	Feb 2019	300	32.000	Y		
Fire Control		2018	Aimpoint / Sweden	SS / IDIQ	ACC-NJ, Picatinny Arsenal, NJ	Apr 2018	Jul 2018	93	25.160	Y		
Fire Control		2019	Aimpoint / Sweden	SS / IDIQ	ACC-NJ, Picatinny Arsenal, NJ	Dec 2018	Feb 2019	300	32.000	Y		
Sub Caliber Apdapter		2018	Saab Dynamics AB / Sweden	SS / IDDQ	ACC-NJ, Picatinny Arsenal, NJ	Apr 2018	Jul 2018	93	5.910	Y		
Sub Caliber Apdapter		2019	Saab Dynamics AB / Sweden	SS / IDIQ	ACC-NJ, Picatinny Arsenal, NJ	Dec 2018	Feb 2019	300	6.590	Y		

Remarks:
P-21 is not required, as all hardware items procured are COTS or COTS/NDI.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 4368G13800 / GUN AUTOMATIC 30MM M230
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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	7.434	-	7.434	19.825	9.913	-	-	-	37.172
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	7.434	-	7.434	19.825	9.913	-	-	-	37.172
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	7.434	-	7.434	19.825	9.913	-	-	-	37.172
<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>)	-	-	-	413.000	-	413.000	508.333	762.538	-	-	-	531.029

Description:

The XM914 autocannon is an upgraded and modified version of the M230 cannon currently equipped on the AH-64 Apache advanced attack helicopter. The XM914 modifies the aviation-based weapon for ground application and integration into a remote weapon station for vehicle platforms. The XM914 is a link-fed, externally-powered and electrically-primed 30mm chain gun, capable of firing two hundred rounds per minute. The weapon incorporates an anti-hangfire system and an extended barrel for enhanced muzzle velocity. The XM914 provides significant lethality improvements over legacy heavy machine guns, such as the M2 .50 caliber machine gun and the MK19 grenade machine gun, and provides the capability required for Soldiers in a combat environment to engage enemy personnel and lightly armored targets.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	7.434	-	7.434	19.825	9.913	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	7.434	-	7.434	19.825	9.913	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 4368G13800 / GUN AUTOMATIC 30MM M230
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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G13800 / GUN AUTOMATIC 30MM M230	P-5a	A		- / -	- / -	- / -	- / 7.434	- / -	- / 7.434
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 7.434	- / -	- / 7.434

*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:
 FY2019 Base procurement dollars in the amount of \$7.434 million supports the Active component of the Army by procuring eighteen XM914 30mm autocannons. The XM914 provides significant lethality improvements over legacy heavy machine guns, such as the M2 .50 caliber machine gun and the MK19 grenade machine gun, and provides the capability required for Soldiers in a combat environment to engage enemy personnel and lightly armored targets.

Funds in this line are a new start in FY2019.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 4368G13800 / GUN AUTOMATIC 30MM M230	Item Number / Title [DODIC]: G13800 / GUN AUTOMATIC 30MM M230

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	7.434	-	7.434
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	7.434	-	7.434
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	7.434	-	7.434

(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)	-	-	-	413.000	-	413.000

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
XM914 30mm Autocannon ^(†)	-	-	-	-	-	-	-	-	-	250.000	18	4.500	-	-	-	250.000	18	4.500
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
First Destination Transportation	-	-	-	-	-	-	-	-	-	-	-	0.012	-	-	-	-	-	0.012
Program Management	-	-	-	-	-	-	-	-	-	-	-	0.233	-	-	-	-	-	0.233
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.245	-	-	-	-	-	5.245
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.245	-	-	-	-	-	5.245
Package Fielding Cost																		
Recurring Cost																		
Pre-fielding coordination and storage	-	-	-	-	-	-	-	-	-	-	-	0.015	-	-	-	-	-	0.015
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.015	-	-	-	-	-	0.015
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.015	-	-	-	-	-	0.015
Logistics Cost																		
Non Recurring Cost																		
Contractor Logistics Support	-	-	-	-	-	-	-	-	-	-	-	2.174	-	-	-	-	-	2.174

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 4368G13800 / GUN AUTOMATIC 30MM M230	Item Number / Title [DODIC]: G13800 / GUN AUTOMATIC 30MM M230

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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>	-	-	-	-	-	-	-	-	-	-	-	2.174	-	-	-	-	-	2.174
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.174	-	-	-	-	-	2.174
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	413.000	-	7.434	-	-	-	413.000	-	7.434

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	7.434	-	7.434
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	7.434	-	7.434

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10			P-1 Line Item Number / Title: 4368G13800 / GUN AUTOMATIC 30MM M230				Item Number / Title [DODIC]: G13800 / GUN AUTOMATIC 30MM M230					
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
XM914 30mm Autocannon		2019	ATK / Phoenix, AZ	SS / FFP	ACC-NJ, Picatinny Arsenal, NJ	Mar 2019	Jan 2020	18	250.000			

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 5000GB2000 / Machine Gun, Cal .50 M2 Roll
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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	395.544	-	-	22.330	-	22.330	3.146	-	-	-	-	421.020
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	395.544	-	-	22.330	-	22.330	3.146	-	-	-	-	421.020
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	395.544	-	-	22.330	-	22.330	3.146	-	-	-	-	421.020
<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>)	-	-	-	11.005	-	11.005	11.000	-	-	-	-	181.866

Description:

M2A1 .50 Caliber Machine Gun is an automatic, belt-fed, recoil-operated, and air-cooled crew-served weapon. It mounts on the M205 tripod and on most vehicles, and serves as an anti-personnel and anti-aircraft weapon. It is highly effective against light armored vehicles, low-and slow-flying aircraft, and small boats. The M2A1 provides automatic weapon suppressive fire for offensive and defensive purposes. It is capable of single-shot and automatic fire. The M2A1 provides enhancements to allow the Soldier to quickly change barrels without the need to reset the headspace and timing while also reducing the visible muzzle flash.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	22.330	-	22.330	3.146	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	22.330	-	22.330	3.146	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 5000GB2000 / Machine Gun, Cal .50 M2 Roll
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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G10900 / MACHINE GUN, CAL .50 M-2 FLEX	P-5a, P-21	A		- / 395.544	- / -	- / -	- / 22.330	- / -	- / 22.330
P-40	Total Gross/Weapon System Cost				- / 395.544	- / -	- / -	- / 22.330	- / -	- / 22.330

*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 2019 Base procurement dollars in the amount of \$22.330 million supports the Active Army by purchasing 2,029 M2A1 .50 Caliber Machine Guns. The M2A1 provides automatic weapon suppressive fire for offensive and defensive purposes. It is capable of single-shot and automatic fire. The M2A1 provides enhancements to allow the Soldier to quickly change barrels without the need to reset the headspace and timing while also reducing the visible muzzle flash.

The M2A1 .50 Caliber Machine Gun is a New Start.

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.

AAO: 49,781

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		P-1 Line Item Number / Title: 5000GB2000 / Machine Gun, Cal .50 M2 Roll
		Item Number / Title [DODIC]: G10900 / MACHINE GUN, CAL .50 M-2 FLEX

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	395.544	-	-	22.330	-	22.330
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	395.544	-	-	22.330	-	22.330
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	395.544	-	-	22.330	-	22.330

(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)	-	-	-	11.005	-	11.005

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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																		
M205 Lightweight Tripod	13.910	27,556	383.290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M2A1 .50 Caliber Machine Gun ⁽¹⁾	-	-	-	-	-	-	-	-	-	10.179	2,029	20.653	-	-	-	10.179	2,029	20.653
1. Program Management Support (Non-Labor)	-	-	-	-	-	-	-	-	-	-	-	0.489	-	-	-	-	-	0.489
2. Production Engineering	-	-	3.613	-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	0.300
3. Integrated Logistics Support	-	-	2.336	-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	0.300
4. Fielding	-	-	1.964	-	-	-	-	-	-	-	-	0.250	-	-	-	-	-	0.250
5. First Destination Transportation	-	-	1.575	-	-	-	-	-	-	-	-	0.088	-	-	-	-	-	0.088
6. Engineering Studies	-	-	1.192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7. New Equipment Training	-	-	1.560	-	-	-	-	-	-	-	-	0.250	-	-	-	-	-	0.250
<i>Subtotal: Recurring Cost</i>	-	-	<i>395.544</i>	-	-	-	-	-	-	-	-	<i>22.330</i>	-	-	-	-	-	<i>22.330</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>395.544</i>	-	-	-	-	-	-	-	-	<i>22.330</i>	-	-	-	-	-	<i>22.330</i>
Gross/Weapon System Cost	-	-	395.544	-	-	-	-	-	-	11.005	-	22.330	-	-	-	11.005	-	22.330

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 5000GB2000 / Machine Gun, Cal .50 M2 Roll	Item Number / Title [DODIC]: G10900 / MACHINE GUN, CAL .50 M-2 FLEX

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	22.330	-	22.330
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	22.330	-	22.330

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10			P-1 Line Item Number / Title: 5000GB2000 / Machine Gun, Cal .50 M2 Roll				Item Number / Title [DODIC]: G10900 / MACHINE GUN, CAL .50 M-2 FLEX					
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
M2A1 .50 Caliber Machine Gun ^(†)		2019	TBD / TBD	C / IDIQ	ACC-NJ, Picatinny	May 2019	Feb 2020	2,029	10.180			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10										P-1 Line Item Number / Title: 5000GB2000 / Machine Gun, Cal .50 M2 Roll										Item Number / Title [DODIC]: G10900 / MACHINE GUN, CAL .50 M-2 FLEX									

Cost Elements (Units in Each)					Fiscal Year 2019												Fiscal Year 2020												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P

M2A1 .50 Caliber Machine Gun																													
1	2019	ARMY		2,029		0	2,029						A	-	-	-	-	-	-	-	-	400	400	400	400	400	29		0

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

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		P-1 Line Item Number / Title: 5000GB2000 / Machine Gun, Cal .50 M2 Roll
		Item Number / Title [DODIC]: G10900 / MACHINE GUN, CAL .50 M-2 FLEX

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD - TBD	50	50	400	0	0	0	0	0	0	0	0	0

Remarks:

Each Delivery Order is competed between two contractors (General Dynamics OTS, Williston, VT and US Ordnance, McCarran, NV).

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 6580G02200 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	354.306	30.742	21.452	12.470	11.842	24.312	14.913	7.680	6.717	5.959	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	354.306	30.742	21.452	12.470	11.842	24.312	14.913	7.680	6.717	5.959	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	354.306	30.742	21.452	12.470	11.842	24.312	14.913	7.680	6.717	5.959	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,762.716	98.849	126.935	135.543	101.214	116.325	124.275	118.154	279.875	248.292	Continuing	Continuing

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.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 6580G02200 / Mortar Systems

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G02202 / Mtr Wpn Sys	P-5a, P-21	A		201 / 354.306	311 / 30.742	169 / 21.452	92 / 12.470	117 / 11.842	209 / 24.312
P-40	Total Gross/Weapon System Cost				- / 354.306	- / 30.742	- / 21.452	- / 12.470	- / 11.842	- / 24.312

*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 2019 Base procurement dollars in the amount of \$12.470 million supports the procurement of 75 each M252A1 (81mm) mortar systems, and 17 each M120 (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.

FY2019 Overseas Contingency Operations (OCO) dollars in the amount of \$11.842 million supports the procurement of 22 each M224A1 (60mm) mortar systems, 26 each M252A1 (81mm) mortar systems, 28 each M120 (120mm) mortar systems, 18 each M121 (120mm) mortar systems, and 23 each M326 Mortar Stowage Kits critical Army items consumed in support of deployed units' ongoing military operations including testing, fielding, staging, and transportation. \$11.662 million OCO funding supports the procurement of critical Army items consumed in support of Operation Inherent Reserve for ISIL, and \$0.180M to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative.

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

AAO: 4,037

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Exhibit P-5, Cost Analysis: PB 2019 Army					Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10			P-1 Line Item Number / Title: 6580G02200 / Mortar Systems			Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys			
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	
Procurement Quantity (Units in Each)			201	311	169	92	117	209	
Gross/Weapon System Cost (\$ in Millions)			354.306	30.742	21.452	12.470	11.842	24.312	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			354.306	30.742	21.452	12.470	11.842	24.312	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)			354.306	30.742	21.452	12.470	11.842	24.312	
<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)			1,762.716	98.849	126.935	135.543	101.214	116.325	

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
60mm Cannon Tubes ^(†)	-	-	-	31.432	175	5.501	-	-	-	-	-	-	31.432	22	0.692	31.432	22	0.692
60mm Mortar Component	-	-	-	31.614	175	5.532	-	-	-	-	-	-	31.614	22	0.696	31.614	22	0.696
60mm Mortar System ^(†)	-	-	-	9.537	175	1.669	-	-	-	-	-	-	9.537	22	0.210	9.537	22	0.210
81mm Cannon Tubes ^(†)	-	-	-	23.968	75	1.798	23.968	66	1.582	23.968	75	1.798	23.968	26	0.623	23.968	101	2.421
81mm Mortar Component	-	-	-	1.100	75	0.083	1.100	66	0.073	1.100	75	0.083	1.100	26	0.029	1.100	101	0.111
81mm Mortar System ^(†)	-	-	-	63.402	75	4.755	63.402	66	4.185	63.402	75	4.755	63.402	26	1.648	63.402	101	6.404
120mm Cannon Tubes ^(†)	-	-	-	26.645	58	1.545	26.645	100	2.665	26.645	17	0.453	26.645	46	1.226	26.645	63	1.679
120mm Mortar Component	-	-	-	20.270	58	1.176	20.270	100	2.027	20.270	17	0.345	20.270	46	0.932	20.270	63	1.277
120mm Mortar System ^(†)	-	-	-	49.156	58	2.851	49.156	100	4.916	49.156	17	0.836	49.156	46	2.261	49.156	63	3.097
M326 Mortar Stowage Kit ^(†)	-	-	-	-	-	-	88.925	4	0.356	-	-	-	88.925	23	2.045	88.925	23	2.045
M1101 Trailers ^(†)	-	-	-	-	-	-	7.500	4	0.030	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	24.909	-	-	15.832	-	-	8.268	-	-	10.362	-	-	18.630

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10						P-1 Line Item Number / Title: 6580G02200 / Mortar Systems						Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys					

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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: Hardware Cost</i>	-	-	-	-	-	24.909	-	-	15.832	-	-	8.268	-	-	10.362	-	-	18.630
Logistics Cost																		
Recurring Cost																		
Government ILS	-	-	-	-	-	0.479	-	-	0.444	-	-	0.446	-	-	-	-	-	0.446
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.479	-	-	0.444	-	-	0.446	-	-	-	-	-	0.446
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	0.479	-	-	0.444	-	-	0.446	-	-	-	-	-	0.446
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.650	-	-	0.660	-	-	0.696	-	-	0.330	-	-	1.026
First Article Test	-	-	-	-	-	0.695	-	-	0.643	-	-	0.330	-	-	0.415	-	-	0.745
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	1.345	-	-	1.303	-	-	1.026	-	-	0.745	-	-	1.771
Support - Fielding Cost																		
Fielding	-	-	-	-	-	0.623	-	-	0.630	-	-	0.532	-	-	0.475	-	-	1.007
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	0.623	-	-	0.630	-	-	0.532	-	-	0.475	-	-	1.007
Support - Production Engineering Cost																		
Production Engineering	-	-	354.306	-	-	2.475	-	-	2.120	-	-	1.267	-	-	-	-	-	1.267
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	354.306	-	-	2.475	-	-	2.120	-	-	1.267	-	-	-	-	-	1.267
Support - Staging and Transportation Cost																		
Staging and Transportation	-	-	-	-	-	0.485	-	-	0.520	-	-	0.550	-	-	0.260	-	-	0.810
<i>Subtotal: Support - Staging and Transportation Cost</i>	-	-	-	-	-	0.485	-	-	0.520	-	-	0.550	-	-	0.260	-	-	0.810
Support - Training Cost																		
Equipment	-	-	-	-	-	0.425	-	-	0.603	-	-	0.381	-	-	-	-	-	0.381
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	0.425	-	-	0.603	-	-	0.381	-	-	-	-	-	0.381
Gross/Weapon System Cost	1,762.716	201	354.306	98.849	311	30.742	126.935	169	21.452	135.543	92	12.470	101.214	117	11.842	116.325	209	24.312

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 6580G02200 / Mortar Systems	Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
60mm Cannon Tubes		2017	Watervilet Arsenal / Watervliet, NY	MIPR	Picatinny Arsenal, NJ	Feb 2017	Oct 2017	175	31.432	Y		
60mm Cannon Tubes	✓	2019	Watervilet Arsenal / Watervliet, NY	MIPR	Picatinny Arsenal, NJ	Feb 2019	Oct 2019	22	31.432	Y		
60mm Mortar System		2017	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Jul 2019	175	9.537	Y		
60mm Mortar System	✓	2019	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Jul 2021	22	9.537	Y		
81mm Cannon Tubes		2017	Watervilet Arsenal / Watervliet, NY	MIPR	Picatinny Arsenal, NJ	Feb 2017	Oct 2017	75	23.968	Y		
81mm Cannon Tubes		2018	Watervilet Arsenal / Watervliet, NY	MIPR	Picatinny Arsenal, NJ	Feb 2018	Oct 2018	66	23.968	Y		
81mm Cannon Tubes		2019	Watervilet Arsenal / Watervliet, NY	MIPR	Picatinny Arsenal, NJ	Feb 2019	Oct 2019	101	23.968	Y		
81mm Mortar System ^(t)		2017	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Jul 2019	75	63.402	Y		
81mm Mortar System ^(t)		2018	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Jul 2020	66	63.402	Y		
81mm Mortar System ^(t)		2019	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Jul 2021	101	63.402	Y		
120mm Cannon Tubes		2017	Watervilet Arsenal / Watervliet, NY	MIPR	Picatinny Arsenal, NJ	Feb 2017	Oct 2017	58	26.645	Y		
120mm Cannon Tubes		2018	Watervilet Arsenal / Watervliet, NY	MIPR	Picatinny Arsenal, NJ	Feb 2018	Oct 2018	100	26.645	Y		
120mm Cannon Tubes		2019	Watervilet Arsenal / Watervliet, NY	MIPR	Picatinny Arsenal, NJ	Feb 2019	Oct 2019	63	26.645	Y		
120mm Mortar System		2017	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Jul 2019	58	49.156	Y		
120mm Mortar System		2018	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Jul 2020	100	49.156	Y		
120mm Mortar System		2019	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Jul 2021	63	49.156	Y		
M326 Mortar Stowage Kit		2018	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Feb 2018	Mar 2019	4	88.925	Y		
M326 Mortar Stowage Kit	✓	2019	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Feb 2019	Mar 2020	23	88.925	Y		
M1101 Trailers		2018	Sierra Army Depot / Sierra, NV	MIPR	Picatinny Arsenal, NJ	Feb 2018	Mar 2019	4	7.500	Y		

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

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 6580G02200 / Mortar Systems	Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017														Fiscal Year 2018												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
81mm Mortar System																																	
1		2017	ARMY	75	0	75																									75		
1		2018	ARMY	66	0	66																									66		
1		2019	ARMY	101	0	101																									101		

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 6580G02200 / Mortar Systems	Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													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 2 0	BAL D U E A 	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			
81mm Mortar System																																	
	1	2017	ARMY	75	75	0																							0				
	1	2018	ARMY	66	33	33	11	11	11																				0				
	1	2019	ARMY	101	0	101	-	-	-	-	-	-	-	-	-	11	11	11	11	11	11	11	11	11	11	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: PB 2019 Army									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10					P-1 Line Item Number / Title: 6580G02200 / Mortar Systems				Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	EFW Inc - Fort Worth, TX	60	100	165	15	6	28	34	3	6	28	34

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8181G01501 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	224.992	3.062	4.524	0.697	-	0.697	0.382	7.945	15.859	19.824	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	224.992	3.062	4.524	0.697	-	0.697	0.382	7.945	15.859	19.824	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	224.992	3.062	4.524	0.697	-	0.697	0.382	7.945	15.859	19.824	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>)	18.035	-	3.684	-	-	-	-	3.377	3.370	3.370	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. M320 GLMs will also be fitted with an additional system components, such as a 40mm fuze programmer, to properly enact the air burst capability present within the new 40mm Family of Ammunition (FOA).

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.062	4.524	0.697	-	0.697	0.382	7.945	15.859	19.824
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.062	4.524	0.697	-	0.697	0.382	7.945	15.859	19.824

Justification:

FY 2019 Base procurement dollars in the amount of \$.697 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 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.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 8181G01501 / 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		
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.		
AAO: 68,860		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8194G01507 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	46.236	-	46.236	58.999	21.097	12.237	25.363	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	46.236	-	46.236	58.999	21.097	12.237	25.363	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	46.236	-	46.236	58.999	21.097	12.237	25.363	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>)	-	-	-	8.926	-	8.926	8.857	8.517	8.691	8.859	Continuing	Continuing

Description:

Brigade Combat Teams (BCT) require the capability to engage threat personnel with aimed lethal and accurate fires at ranges exceeding the current squad riflemen provided today. The Army is addressing longer range threats by procuring the Squad Designated Marksman Rifle (SDMR). The SDMR is intended to provide increased accuracy at longer ranges, giving infantry squads greater firepower and flexibility by engaging targets with precision fire. The Squad Designated Marksman Rifle will be a 7.62x51mm semi-automatic rifle with suppressor, optic, and additional authorized equipment.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	28.527	-	28.527	44.868	15.952	12.237	25.363
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	17.468	-	17.468	14.131	5.023	-	-
AR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	0.241	-	0.241	-	0.122	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	46.236	-	46.236	58.999	21.097	12.237	25.363

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 8194G01507 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	P-5a	B		- / -	- / -	- / -	- / 46.236	- / -	- / 46.236
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 46.236	- / -	- / 46.236

*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 2019 Base procurement dollars in the amount of \$46.236 million supports the procurement and fielding of 5,180 Squad Designated Marksman Rifle (SDMR). The SDMR provides Infantry, Scout and Engineer squads the capability to engage enemy personnel with accurate rifle fire. SDMR is a Commercial-Off-The-Shelf (COTS)

 SDMR is a New Start in FY 2019.

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

 AAO: 8,711

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8194G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	Item Number / Title [DODIC]: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	46.236	-	46.236
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	46.236	-	46.236
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	46.236	-	46.236

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	8.926	-	8.926

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware ^(†)	-	-	-	-	-	-	-	-	-	7.763	5,180	40.214	-	-	-	7.763	5,180	40.214
Program Management	-	-	-	-	-	-	-	-	-	-	-	4.153	-	-	-	-	-	4.153
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	0.855	-	-	-	-	-	0.855
Integrated Logistics Support (ILS)	-	-	-	-	-	-	-	-	-	-	-	0.265	-	-	-	-	-	0.265
Total Package Fielding (TPF)	-	-	-	-	-	-	-	-	-	-	-	0.628	-	-	-	-	-	0.628
New Equipment Training (NET)	-	-	-	-	-	-	-	-	-	-	-	0.123	-	-	-	-	-	0.123
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	46.236	-	-	-	-	-	46.236
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	46.236	-	-	-	-	-	46.236
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	8.926	-	46.236	-	-	-	8.926	-	46.236

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	28.527	-	28.527
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	17.468	-	17.468

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8194G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	Item Number / Title [DODIC]: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.241	-	0.241
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	46.236	-	46.236

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10			P-1 Line Item Number / Title: 8194G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM				Item Number / Title [DODIC]: G01507 / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM					
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
Hardware		2019	Heckler & Koch Defense / Ashburn, VA	C / FFP	ACC-Picatinny, Picatinny, NJ	Jan 2019	Mar 2019	5,180	7.760	Y		

Remarks:
The Squad Designated Marksman Rifle (SDMR) is a COTS/NDI solution, therefore, a P21 delivery schedule is not required.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8201G13501 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	92.431	40.493	43.150	69.306	1.800	71.106	30.394	17.037	11.010	2.425	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	92.431	40.493	43.150	69.306	1.800	71.106	30.394	17.037	11.010	2.425	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	92.431	40.493	43.150	69.306	1.800	71.106	30.394	17.037	11.010	2.425	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>)	1.469	0.763	0.655	0.802	0.804	0.802	0.827	0.949	1.530	7.578	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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.429	7.499	38.375	1.800	40.175	0.589	17.037	11.010
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	22.272	19.115	10.847	-	10.847	14.112	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	15.792	16.536	20.084	-	20.084	15.693	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	40.493	43.150	69.306	1.800	71.106	30.394	17.037	11.010

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:**
 8201G13501 / Carbine

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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		- / 92.431	- / 40.493	- / 43.150	- / 69.306	- / 1.800	- / 71.106
P-40	Total Gross/Weapon System Cost				- / 92.431	- / 40.493	- / 43.150	- / 69.306	- / 1.800	- / 71.106

*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 2019 Base procurement dollars in the amount of \$69.306 million supports the procurement of 91,165 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.

FY 2019 OCO procurement dollars in the amount of \$1.800 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the procurement of 2,240 M4A1 Carbines with a backup iron sight, and adapter rail system.

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.

AAO: 850,000

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8201G13501 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	92.431	40.493	43.150	69.306	1.800	71.106
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	92.431	40.493	43.150	69.306	1.800	71.106
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	92.431	40.493	43.150	69.306	1.800	71.106

(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)	1.469	0.763	0.655	0.802	0.804	0.802

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 ^(†)	0.884	92,513	81.758	0.626	53,103	33.243	0.586	65,876	38.573	0.638	91,165	58.123	0.638	2,240	1.430	0.638	93,405	59.553
2. Colt's Royalty payment	-	-	1.060	-	-	0.289	-	-	0.370	-	-	0.737	-	-	0.016	-	-	0.753
6. M4A1 Technical Manuals	-	-	0.030	-	-	0.007	-	-	0.201	-	-	0.146	-	-	-	-	-	0.146
Transportation Cost	-	-	0.177	-	-	0.060	-	-	0.050	-	-	0.500	-	-	-	-	-	0.500
<i>Subtotal: Recurring Cost</i>	-	-	<i>83.048</i>	-	-	<i>33.598</i>	-	-	<i>39.224</i>	-	-	<i>59.546</i>	-	-	<i>1.445</i>	-	-	<i>60.991</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>83.048</i>	-	-	<i>33.598</i>	-	-	<i>39.224</i>	-	-	<i>59.546</i>	-	-	<i>1.445</i>	-	-	<i>60.991</i>
Package Fielding Cost																		
Recurring Cost																		
7. Total Package Fielding (TPF)	-	-	1.600	-	-	0.356	-	-	0.610	-	-	0.966	-	-	0.100	-	-	1.066
<i>Subtotal: Recurring Cost</i>	-	-	<i>1.600</i>	-	-	<i>0.356</i>	-	-	<i>0.610</i>	-	-	<i>0.966</i>	-	-	<i>0.100</i>	-	-	<i>1.066</i>
Non Recurring Cost																		
8. Integrated Logistics Support (ILS)	-	-	0.568	-	-	0.260	-	-	0.110	-	-	0.270	-	-	0.084	-	-	0.354
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.568</i>	-	-	<i>0.260</i>	-	-	<i>0.110</i>	-	-	<i>0.270</i>	-	-	<i>0.084</i>	-	-	<i>0.354</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>2.168</i>	-	-	<i>0.616</i>	-	-	<i>0.720</i>	-	-	<i>1.236</i>	-	-	<i>0.184</i>	-	-	<i>1.420</i>
Support - Program Management Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10						P-1 Line Item Number / Title: 8201G13501 / 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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
Government Management	-	-	4.850	-	-	4.166	-	-	1.769	-	-	5.855	-	-	0.101	-	-	5.956
<i>Subtotal: Support - Program Management Cost</i>	-	-	4.850	-	-	4.166	-	-	1.769	-	-	5.855	-	-	0.101	-	-	5.956
Support - System Engineering Cost																		
System Engineering	-	-	2.365	-	-	2.113	-	-	1.437	-	-	2.669	-	-	0.070	-	-	2.739
<i>Subtotal: Support - System Engineering Cost</i>	-	-	2.365	-	-	2.113	-	-	1.437	-	-	2.669	-	-	0.070	-	-	2.739
Gross/Weapon System Cost	1.469	-	92.431	0.763	-	40.493	0.655	-	43.150	0.802	-	69.306	0.804	-	1.800	0.802	-	71.106

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.429	7.499	38.375	1.800	40.175
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	22.272	19.115	10.847	-	10.847
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	15.792	16.536	20.084	-	20.084
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	40.493	43.150	69.306	1.800	71.106

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10			P-1 Line Item Number / Title: 8201G13501 / Carbine				Item Number / Title [DODIC]: G13503 / M4A1 CARBINE				

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 2016	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	May 2017	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	Jun 2017	37,869	0.630	Y		
1. M4A1 Carbine ^(†)		2017	Colt / West Hartford	C / FFP	ACC Picatinny, Picatinny, NJ	Aug 2017	Jan 2018	15,234	0.620	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	May 2018	32,938	0.630	Y		
1. M4A1 Carbine ^(†)		2019	FN Manufacturing / Columbia	C / FFP	ACC Picatinny, Picatinny, NJ	Dec 2018	May 2019	46,702	0.640	Y		
1. M4A1 Carbine ^(†)		2019	Colt / West Hartford	C / FFP	ACC Picatinny, Picatinny, NJ	Dec 2018	Apr 2019	46,703	0.640	Y		

^(†) indicates the presence of a P-21

Remarks:

FY 2015 yet to be delivered quantities: 13,733 M4A1 carbines were procured under Delivery Order 0011 FN contract (W56HZV-13-D-0030). This delivery order was awarded in November 2014. The Army placed just two delivery orders on this contract (out of a total of 19) The Army was initially 5th and then 11th in the queue with Other Service's orders in between; DO 0011 will start delivery in July of 2018 as stated on the contract.

The FY 2017 quantity of 37,869 alludes to two separate delivery orders under FN Manufacturing. 12,989 Delivery order awarded Dec 2016 and 24,880 Delivery order awarded Aug 31, 2017.

The FY 2018 and 2019 projected quantities will be competed between vendors for each delivery order.

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 **P-1 Line Item Number / Title:** 8201G13501 / Carbine **Item Number / Title [DODIC]:** G13503 / M4A1 CARBINE

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
1. M4A1 Carbine																																
	1	2014	ARMY	28.996	.000	28.996	-	-	-	-	-	-	-	-	-	-	-	1.328	1.769	2.270	2.500	2.000	2.000	2.500	1.900	1.000	1.000	1.500	1.000	8.229		
	1	2015	ARMY	17.992	.000	17.992	-	-	-	-	-	-	-	-	-	-	-	4.220	-	.039	-	-	-	-	-	-	-	-	-	-	13.733	
	2	2015	ARMY	4.839	.000	4.839	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.000	1.000	1.000	1.300	.539	.000			
	1	2016	AF (+)	36.200	.000	36.200									A -	-	-	-	-	-	-	1.500	2.000	2.000	2.000	2.000	2.000	2.000	2.000	20.700		
	1	2016	ARMY	30.510	.000	30.510									A -	-	-	-	-	-	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	Total	66.710	.000	66.710									-	-	-	-	-	-	2.500	2.800	2.800	4.300	5.000	6.000	6.000	5.310	4.000	3.900	3.400	20.700
	2	2016	AF (+)	2.707	.000	2.707									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.707	
	2	2016	ARMY	10.176	.000	10.176									A -	-	-	-	-	-	-	-	-	-	-	-	-	1.429	2.000	2.000	4.747	
	2	2016	Total	12.883	.000	12.883									-	-	-	-	-	-	-	-	-	-	-	-	-	1.429	2.000	2.000	7.454	
	1	2017	ARMY	37.869	.000	37.869																A -	-	-	-	-	2.000	2.000	1.989	2.500	29.380	
	2	2017	ARMY	15.234	.000	15.234																								A -	-	15.234
	2	2017	NAVY (+)	11.848	.000	11.848																								A -	-	11.848
	2	2017	Total	27.082	.000	27.082																								-	-	27.082
	1	2018	AF (+)	.025	.000	.025																										.000
	1	2018	ARMY	32.938	.000	32.938																										32.938
	1	2018	Total	32.963	.000	32.963																										32.938
	2	2018	ARMY	32.938	.000	32.938																										32.938
	2	2018	NAVY (+)	1.800	.000	1.800																										1.800
	2	2018	Total	34.738	.000	34.738																										34.738
	1	2019	AF (+)	.025	.000	.025																										.025
	1	2019	ARMY	46.702	.000	46.702																										46.702
	1	2019	NAVY (+)	1.800	.000	1.800																										1.800
	1	2019	Total	48.527	.000	48.527																										48.527
	2	2019	ARMY	46.703	.000	46.703																										46.703
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8201G13501 / Carbine	Item Number / Title [DODIC]: G13503 / M4A1 CARBINE
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1. M4A1 Carbine																																	
	1	2014	ARMY	28.996	20.767	8.229	1.500	1.000	1.000	1.029	1.000	1.600	1.100																	.000			
	1	2015	ARMY	17.992	4.259	13.733	-	-	-	-	-	-	-	-	.385	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.334	1.334					.000			
	2	2015	ARMY	4.839	4.839	.000																								.000			
	1	2016	AF (+)	36.200	15.500	20.700	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.700															.000			
	1	2016	ARMY	30.510	30.510	.000	-	-	-	-	-	-	-	-	-															.000			
	1	2016	Total	66.710	46.010	20.700	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000			
	2	2016	AF (+)	2.707	.000	2.707	-	-	2.000	.707																				.000			
	2	2016	ARMY	10.176	5.429	4.747	2.000	1.000	1.747	-																				.000			
	2	2016	Total	12.883	5.429	7.454	2.000	1.000	3.747	.707	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000			
	1	2017	ARMY	37.869	8.489	29.380	2.500	2.000	1.000	2.880	3.000	3.000	3.000	3.000	3.000															.000			
	2	2017	ARMY	15.234	.000	15.234	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	1.234	-													.000			
	2	2017	NAVY (+)	11.848	.000	11.848	-	-	-	1.000	1.750	1.200	1.000	1.000	2.000	1.000	1.050	1.848												.000			
	2	2017	Total	27.082	.000	27.082	-	-	-	3.000	3.750	3.200	3.000	3.000	4.000	3.000	2.284	1.848	-	-	-	-	-	-	-	-	-	-	-	.000			
	1	2018	AF (+)	.025	.025	.000			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		.000			
	1	2018	ARMY	32.938	.000	32.938			A -	-	-	-	-	-	-	-	-	2.688	2.750	2.750	2.750	2.750	3.000	3.500	3.500	3.500	3.500	2.250		.000			
	1	2018	Total	32.963	.025	32.938			-	-	-	-	-	-	-	-	-	2.688	2.750	2.750	2.750	2.750	3.000	3.500	3.500	3.500	3.500	2.250	-	-	.000		
	2	2018	ARMY	32.938	.000	32.938			A -	-	-	-	-	2.838	2.750	2.750	2.750	2.750	2.750	2.750	3.400	3.400	3.400	3.400						.000			
	2	2018	NAVY (+)	1.800	.000	1.800			A -	-	-	-	1.750	.050	-	-	-	-	-	-	-	-	-	-						.000			
	2	2018	Total	34.738	.000	34.738			-	-	-	-	1.750	2.888	2.750	2.750	2.750	2.750	2.750	2.750	3.400	3.400	3.400	3.400	-	-	-	-	-	.000			
	1	2019	AF (+)	.025	.000	.025															A -	-	-	-	.025	-	-	-		.000			
	1	2019	ARMY	46.702	.000	46.702															A -	-	-	-	-	3.798	3.798	3.798	3.798	3.798	27.712		
	1	2019	NAVY (+)	1.800	.000	1.800															A -	-	-	-	1.000	.800	-	-	-		.000		
	1	2019	Total	48.527	.000	48.527															-	-	-	-	1.000	4.598	3.823	3.798	3.798	3.798	27.712		
	2	2019	ARMY	46.703	.000	46.703															A -	-	-	-	3.798	3.798	3.798	3.798	3.798	3.798	23.915		

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 **P-1 Line Item Number / Title:** 8201G13501 / Carbine **Item Number / Title [DODIC]:** G13503 / M4A1 CARBINE

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1. M4A1 Carbine																																	
	1	2014	ARMY	28.996	28.996	.000																							.000				
	1	2015	ARMY	17.992	17.992	.000																							.000				
	2	2015	ARMY	4.839	4.839	.000																							.000				
	1	2016	AF (+)	36.200	36.200	.000																							.000				
	1	2016	ARMY	30.510	30.510	.000																							.000				
	1	2016	Total	66.710	66.710	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	2	2016	AF (+)	2.707	2.707	.000																							.000				
	2	2016	ARMY	10.176	10.176	.000																							.000				
	2	2016	Total	12.883	12.883	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2017	ARMY	37.869	37.869	.000																							.000				
	2	2017	ARMY	15.234	15.234	.000																							.000				
	2	2017	NAVY (+)	11.848	11.848	.000																							.000				
	2	2017	Total	27.082	27.082	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2018	AF (+)	.025	.025	.000																							.000				
	1	2018	ARMY	32.938	32.938	.000																							.000				
	1	2018	Total	32.963	32.963	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	2	2018	ARMY	32.938	32.938	.000																							.000				
	2	2018	NAVY (+)	1.800	1.800	.000																							.000				
	2	2018	Total	34.738	34.738	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2019	AF (+)	.025	.025	.000																							.000				
	1	2019	ARMY	46.702	18.990	27.712	3.798	3.798	3.798	3.798	3.798	3.804	1.120																.000				
	1	2019	NAVY (+)	1.800	1.800	.000																							.000				
	1	2019	Total	48.527	20.815	27.712	3.798	3.798	3.798	3.798	3.798	3.804	1.120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000					
	2	2019	ARMY	46.703	22.788	23.915	3.798	3.798	3.798	3.798	3.805	1.120																	.000				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8201G13501 / 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 2019	1-8-5 For 2019	MAX For 2019	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	5	8
2	Colt - West Hartford	1,000	3,000	6,000	6	3	8	11	6	3	4	7

Remarks:
 FY 2014 yet to be delivered quantities: 13,733 M4A1 carbines were procured under Delivery Order 0011 FN contract (W56HZV-13-D-0030). This delivery order was awarded in November 2014. The Army placed just two delivery orders on this contract (out of a total of 19) The Army was initially 5th and then 11th in the queue with Other Service's orders in between; DO 0011 will start delivery in August of 2018 as stated on the contract.

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8212G17200 / Small Arms - Fire Control
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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	7.929	-	7.929	8.497	42.334	69.595	94.774	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	7.929	-	7.929	8.497	42.334	69.595	94.774	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	7.929	-	7.929	8.497	42.334	69.595	94.774	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>)	-	-	-	53.215	-	53.215	104.901	11.432	11.458	11.573	Continuing	Continuing

Description:

Small Arms Fire Control (SAFC) will optimize fire control devices to support Next Generation Squad (S), Next Generation Crew Served (CS) and Precision (P). SAFC will increase the probability of hit and decrease time to engage across a range of small arms weapon systems, with a direct-view optic that allows for quicker and more accurate target detection and recognition. The SAFC shall utilize an open system of systems architecture comprised of modular components, to deliver current ground forces the initial increased core capability followed by increasing increments of capability/enhancements over time. Small Arms Fire Control will culminate in multiple configurations: a Small Arms Fire Control - Squad (SAFC-S), Small Arms Fire Control - Crew Served (SAFC-CS), and Small Arms Fire Control - Precision (SAFC-P). They may include technology such as variable magnification direct view (day) optics, atmospheric sensors, an overlaid digital display, weapon orientation sensor, range determination, ballistic computer, disturbed reticle, and networked lethality.

SAFC-P will provide Snipers increased lethality at extended ranges while reducing time of engagement (ToE), increase ability to detect, recognize, and identify targets at extended ranges. P-FC will improve Size, Weight and Power and Cost (SWaP-C) of the current Sniper Fire Control Systems (SFCS).

SAFC-CS will provide magnified day optics with digital display overlay, range determination, ballistic computer and a disturbed reticle for the dismounted M240L, M249 and next generation weapon systems.

SAFC-S will provide variable power direct view optics with ballistic module, atmospheric sensors, range finder, and in-scope display overlay for Army carbine/rifle weapon platforms. It is an integrated fire control system that will increase operational effectiveness by increasing Probability of Hit (P(h)) and decreasing effective engagement time for next generation weapon systems.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	7.929	-	7.929	6.681	38.314	52.268	71.788
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	1.679	4.020	17.327	22.986
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	0.137	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8212G17200 / Small Arms - Fire Control
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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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	7.929	-	7.929	8.497	42.334	69.595	94.774

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 8212G17200 / Small Arms - Fire Control

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G17203 / Precision SA-FC	P-5a	B		- / -	- / -	- / -	- / 7.929	- / -	- / 7.929
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 7.929	- / -	- / 7.929

*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:
 FY2019 Base procurement dollars in the amount of \$7.929 million supports the procurement and fielding of 191 ruggedized Technology Maturation & Risk Reduction (TMRR) versions of the long range Precision Fire Controls (P-FC). The P-FC provide Snipers with increased lethality at extended ranges while reducing time of engagement. SAFC-P is a new start in FY2019.

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.

AAO: 4,497

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		P-1 Line Item Number / Title: 8212G17200 / Small Arms - Fire Control
		Item Number / Title [DODIC]: G17203 / Precision SA-FC

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	7.929	-	7.929
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	7.929	-	7.929
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	7.929	-	7.929

(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)	-	-	-	53.215	-	53.215

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Precision Ruggedized Systems ^(†)	-	-	-	-	-	-	-	-	-	38.874	191	7.425	-	-	-	38.874	191	7.425
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	7.425	-	-	-	-	-	7.425
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	7.425	-	-	-	-	-	7.425
Logistics Cost																		
Recurring Cost																		
Integrated Logistical Support (ILS)	-	-	-	-	-	-	-	-	-	-	-	0.115	-	-	-	-	-	0.115
Total Package Fielding (TPF)	-	-	-	-	-	-	-	-	-	-	-	0.049	-	-	-	-	-	0.049
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.164	-	-	-	-	-	0.164
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.164	-	-	-	-	-	0.164
Support - Data Cost																		
Technical Publications	-	-	-	-	-	-	-	-	-	-	-	0.112	-	-	-	-	-	0.112
Management Data	-	-	-	-	-	-	-	-	-	-	-	0.013	-	-	-	-	-	0.013
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.125	-	-	-	-	-	0.125
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	-	-	-	-	-	-	-	-	-	0.115	-	-	-	-	-	0.115
<i>Subtotal: Support - New Equipment Training (NET) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.115	-	-	-	-	-	0.115

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10						P-1 Line Item Number / Title: 8212G17200 / Small Arms - Fire Control						Item Number / Title [DODIC]: G17203 / Precision SA-FC					
ID Code (A=Service Ready, B=Not Service Ready) : B												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	53.215	-	7.929	-	-	-	53.215	-	7.929

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	7.929	-	7.929
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	7.929	-	7.929

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8212G17200 / Small Arms - Fire Control	Item Number / Title [DODIC]: G17203 / Precision SA-FC
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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
Precision Ruggedized Systems		2019	TBD / TBD	MIPR	ACC-NJ, Picatinny Arsenal, NJ	Jan 2019	Mar 2019	191	38.870			

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8310G04700 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,240.551	25.164	0.750	35.968	3.378	39.346	19.825	24.560	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,240.551	25.164	0.750	35.968	3.378	39.346	19.825	24.560	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,240.551	25.164	0.750	35.968	3.378	39.346	19.825	24.560	-	-	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>)	-	-	-	1,240.276	1,126.000	1,229.563	535.811	501.224	-	-	Continuing	Continuing

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 (to include 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.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	25.164	0.750	35.968	3.378	39.346	19.825	24.560	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	25.164	0.750	35.968	3.378	39.346	19.825	24.560	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 8310G04700 / Common Remotely Operated Weapons Station

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G04700 / Common Remotely Operated Weapons Station	P-5a, P-21	A		- / 2,240.551	- / 25.164	- / 0.750	- / 35.968	- / 3.378	- / 39.346
P-40	Total Gross/Weapon System Cost				- / 2,240.551	- / 25.164	- / 0.750	- / 35.968	- / 3.378	- / 39.346

*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 2019 Base procurement dollars in the amount of \$35.968 million supports the Active Army by procuring initial production of 29 modified Remote Weapon Stations that integrates a medium-caliber (30mm) auto cannon for multiple applications, to include counter-Unmanned Aerial Systems (UAS) mission. Funds also procure initial production of 103 Stinger integration kits that integrates the Stinger surface-to-air missile into the CROWS system.

FY 2019 Overseas Contingency Operations (OCO) procurement dollars in the amount of \$3.378 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the Active Army by procuring initial production of 3 modified Remote Weapon Stations that integrates a medium-caliber (30mm) auto cannon for multiple applications, to include counter-Unmanned Aerial Systems (UAS) mission. Funds also procure initial production of 9 Stinger integration kits that integrates the Stinger surface-to-air missile into the CROWS system, fixed site kits and standoff extension kits to support operational requirements.

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.

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.

AAO: 6,284

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army											Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10					P-1 Line Item Number / Title: 8310G04700 / Common Remotely Operated Weapons Station						Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station							
ID Code (A=Service Ready, B=Not Service Ready) : A											MDAP/MAIS Code:							
Resource Summary				Prior Years		FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO		FY 2019 Total	
Procurement Quantity (Units in Each)				-		-			-			-			-		-	
Gross/Weapon System Cost (\$ in Millions)				2,240.551		25.164			0.750			35.968			3.378		39.346	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				2,240.551		25.164			0.750			35.968			3.378		39.346	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Total Obligation Authority (\$ in Millions)				2,240.551		25.164			0.750			35.968			3.378		39.346	
<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)				-		-			-			1,240.276			1,126.000		1,229.563	

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CROWS system ^(†)	-	-	1,732.137	-	-	-	-	-	-	750.000	29	21.750	750.000	3	2.250	750.000	32	24.000
Stinger Integration Kit ^(†)	-	-	-	-	-	-	-	-	-	125.709	103	12.948	125.333	9	1.128	125.679	112	14.076
CROWS Post-Production Conversions	33.349	545	18.175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platform Integration Kits ^(†)	85.184	630	53.666	2.679	140	0.375	-	-	-	-	-	-	-	-	-	-	-	-
Appended Trainers ^(†)	72.475	80	5.798	10.006	640	6.404	-	-	-	-	-	-	-	-	-	-	-	-
Diagnostic Kits	261.250	20	5.225	45.938	32	1.470	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Support	-	-	108.979	-	-	4.270	-	-	-	-	-	1.235	-	-	-	-	-	1.235
Program Management Support	-	-	24.519	-	-	3.955	-	-	0.250	-	-	0.025	-	-	-	-	-	0.025
Integrated Logistics Support	-	-	48.149	-	-	0.252	-	-	-	-	-	-	-	-	-	-	-	-
Total Package Fielding	-	-	74.342	-	-	3.204	-	-	0.500	-	-	-	-	-	-	-	-	-
Contractor Field Service Representatives	-	-	24.896	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
First Destination Transportation	-	-	4.004	-	-	0.075	-	-	-	-	-	0.010	-	-	-	-	-	0.010

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8310G04700 / Common Remotely Operated Weapons Station	Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
Spares/Repair Parts	-	-	101.014	-	-	2.703	-	-	-	-	-	-	-	-	-	-	-	-
New Equipment Training	-	-	39.647	-	-	2.456	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2,240.551	-	-	25.164	-	-	0.750	-	-	35.968	-	-	3.378	-	-	39.346
<i>Subtotal: Flyaway Cost</i>	-	-	2,240.551	-	-	25.164	-	-	0.750	-	-	35.968	-	-	3.378	-	-	39.346
Gross/Weapon System Cost	-	-	2,240.551	-	-	25.164	-	-	0.750	1,240.276	-	35.968	1,126.000	-	3.378	1,229.563	-	39.346

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	25.164	0.750	35.968	3.378	39.346
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	25.164	0.750	35.968	3.378	39.346

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8310G04700 / Common Remotely Operated Weapons Station	Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CROWS system ^(†)		2019	TBD / TBD	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Dec 2018	Nov 2019	32	750.000	N		
Stinger Integration Kit ^(†)		2019	TBD / TBD	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Feb 2019	Aug 2019	112	125.680	N		
Platform Integration Kits		2017	Choctaw Manufacturing Defense / Antlers, OK	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Mar 2017	Sep 2017	140	2.680	Y		
Appended Trainers		2017	Kongsberg Protech Systems USA / Johnstown, PA	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Mar 2017	Oct 2017	640	10.010	Y		

^(†) indicates the presence of a P-21

Remarks:
N/A

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2019 Army																									Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10										P-1 Line Item Number / Title: 8310G04700 / Common Remotely Operated Weapons Station										Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station											
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017										Fiscal Year 2018										B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G	S E P
CROWS system																															
	1	2019	ARMY	32	0	32																					32				
Stinger Integration Kit																															
	2	2019	ARMY	112	0	112	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	112

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Exhibit P-21, Production Schedule: PB 2019 Army																							Date: February 2018										
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10										P-1 Line Item Number / Title: 8310G04700 / Common Remotely Operated Weapons Station										Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station													
Cost Elements (Units in Each)						Fiscal Year 2019													Fiscal Year 2020													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
CROWS system																																	
	1	2019	ARMY	32	0	32			A	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	2		0				
Stinger Integration Kit																																	
	2	2019	ARMY	112	0	112													20	20	20	20	20	12					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: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		P-1 Line Item Number / Title: 8310G04700 / Common Remotely Operated Weapons Station
		Item Number / Title [DODIC]: G04700 / Common Remotely Operated Weapons Station

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	5	20	50	0	3	11	14	0	3	11	14
2	TBD - TBD	5	20	50	0	3	11	14	0	3	11	14

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8635G15325 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.240	2.000	8.326	48.251	-	48.251	22.216	-	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.240	2.000	8.326	48.251	-	48.251	22.216	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.240	2.000	8.326	48.251	-	48.251	22.216	-	-	-	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>)	-	0.339	0.661	0.260	-	0.260	0.247	-	-	-	Continuing	Continuing

Description:

Currently the M9 Pistol is utilized as the Department of Defense's personal defense weapon. The new M17 and M18 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.000	4.330	39.087	-	39.087	11.811	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.330	6.048	-	6.048	7.068	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.666	3.116	-	3.116	3.337	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.000	8.326	48.251	-	48.251	22.216	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 8635G15325 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	G15325 / Handgun	P-5a	B		- / 0.240	- / 2.000	- / 8.326	- / 48.251	- / -	- / 48.251
P-40	Total Gross/Weapon System Cost				- / 0.240	- / 2.000	- / 8.326	- / 48.251	- / -	- / 48.251

*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:
 FY2019 Base procurement dollars in the amount of \$48.251 million supports the procurement and fielding of 185,552 Modular Handgun Weapon Systems (MHS) consisting of the Full, Compact and General Officer (GO) variants, MHS floats, magazines, pouches, blank and marking round conversion kits, suppressor kits and other accessories to include, but are not limited to white lights and aiming lasers. 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. The MHS is a Commercial Off the Shelf/Non-Developmental Item (COTS/NDI).

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.

AAO: 238,215

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		P-1 Line Item Number / Title: 8635G15325 / Handgun
		Item Number / Title [DODIC]: G15325 / Handgun

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.240	2.000	8.326	48.251	-	48.251
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.240	2.000	8.326	48.251	-	48.251
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.240	2.000	8.326	48.251	-	48.251

(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)	-	0.339	0.661	0.260	-	0.260

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
M17 & M18 Modular Handgun System ^(†)	-	-	-	0.176	7,643	1.345	0.288	22,705	6.535	0.171	176,800	30.231	-	-	-	0.171	176,800	30.231
Float Procurement	-	-	-	-	-	-	-	-	-	0.174	8,552	1.488	-	-	-	0.174	8,552	1.488
GO Pistol	-	-	-	0.275	451	0.124	-	-	-	0.275	200	0.055	-	-	-	0.275	200	0.055
Accessories	-	-	-	-	-	-	-	-	-	-	-	4.412	-	-	-	-	-	4.412
Associated Items of Equipment	-	-	-	-	-	-	-	-	-	-	-	2.035	-	-	-	-	-	2.035
Engineering Change Proposals (ECPs) & TDP	-	-	-	-	-	-	-	-	-	-	-	0.187	-	-	-	-	-	0.187
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.469	-	-	6.539	-	-	38.410	-	-	-	-	-	38.410
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	1.469	-	-	6.539	-	-	38.410	-	-	-	-	-	38.410
Package Fielding Cost																		
Recurring Cost																		
Total Package Fielding	-	-	-	-	-	0.150	-	-	0.324	-	-	1.700	-	-	-	-	-	1.700
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.150	-	-	0.324	-	-	1.700	-	-	-	-	-	1.700
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	0.150	-	-	0.324	-	-	1.700	-	-	-	-	-	1.700
Logistics Cost																		
Recurring Cost																		
Integrated Logistics Support (ILS)	-	-	-	-	-	-	-	-	0.242	-	-	0.281	-	-	-	-	-	0.281

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8635G15325 / Handgun	Item Number / Title [DODIC]: G15325 / Handgun

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.242	-	-	0.281	-	-	-	-	-	0.281
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	0.242	-	-	0.281	-	-	-	-	-	0.281
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.015	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	0.015	-	-	-	-	-	-	-	-	-	-	-	-
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	0.075	-	-	0.047	-	-	0.113	-	-	-	-	-	0.113
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	0.075	-	-	0.047	-	-	0.113	-	-	-	-	-	0.113
Support - Program Management Cost																		
Government Management	-	-	0.240	-	-	0.011	-	-	0.552	-	-	3.747	-	-	-	-	-	3.747
<i>Subtotal: Support - Program Management Cost</i>	-	-	0.240	-	-	0.011	-	-	0.552	-	-	3.747	-	-	-	-	-	3.747
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	0.349	-	-	3.634	-	-	-	-	-	3.634
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	0.349	-	-	3.634	-	-	-	-	-	3.634
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	-	-	-	0.085	-	-	-	-	-	0.085
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.085	-	-	-	-	-	0.085
Support - Training Cost																		
Equipment	-	-	-	-	-	0.280	-	-	0.277	-	-	0.281	-	-	-	-	-	0.281
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	0.280	-	-	0.277	-	-	0.281	-	-	-	-	-	0.281
Gross/Weapon System Cost	-	-	0.240	0.339	-	2.000	0.661	-	8.326	0.260	-	48.251	-	-	-	0.260	-	48.251

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.000	4.330	39.087	-	39.087
ANG	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8635G15325 / Handgun	Item Number / Title [DODIC]: G15325 / Handgun
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Secondary Distribution						
	Total Obligation Authority	-	3.330	6.048	-	6.048
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.666	3.116	-	3.116
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.000	8.326	48.251	-	48.251

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8635G15325 / Handgun	Item Number / Title [DODIC]: G15325 / Handgun
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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
M17 & M18 Modular Handgun System		2017	SIG SAUER, INC / NEWINGTON, NH	Option / FFP	ACC-NJ, Picatinny Arsenal, NJ	Jun 2017	Aug 2017	7,643	0.180	Y		
M17 & M18 Modular Handgun System		2018	SIG SAUER, INC / NEWINGTON, NH	Option / FFP	ACC-NJ, Picatinny Arsenal, NJ	Mar 2018	Jun 2018	22,705	0.290	Y		
M17 & M18 Modular Handgun System		2019	SIG SAUER, INC / NEWINGTON, NH	Option / FFP	ACC-NJ, Picatinny Arsenal, NJ	Dec 2018	Feb 2019	176,800	0.170	Y		

Remarks:
The Modular Handgun System is a COTS/NDI solution, therefore, a P21 delivery schedule is not required.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 3000GB3000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	36.854	4.959	2.000	1.684	-	1.684	1.718	6.708	11.700	14.417	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	36.854	4.959	2.000	1.684	-	1.684	1.718	6.708	11.700	14.417	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	36.854	4.959	2.000	1.684	-	1.684	1.718	6.708	11.700	14.417	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>)	-	-	4.124	12.292	-	12.292	13.115	6.082	6.338	6.509	Continuing	Continuing

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	4.959	2.000	1.684	-	1.684	1.718	6.708	11.700	14.417
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	4.959	2.000	1.684	-	1.684	1.718	6.708	11.700	14.417

Justification:

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 3000GB3000 / 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 2019 Base procurement dollars in the amount of \$1.684 million supports the Active Army by procuring 289 MK-19 Grenade Machine Gun MOD 5 Kits and 200 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) provides the Soldier increased accuracy and identification.</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: PB 2019 Army **Date:** February 2018

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: 3005GZ1700 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	84.896	33.600	3.985	3.086	-	3.086	2.477	11.408	16.758	17.947	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	84.896	33.600	3.985	3.086	-	3.086	2.477	11.408	16.758	17.947	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	84.896	33.600	3.985	3.086	-	3.086	2.477	11.408	16.758	17.947	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>)	-	-	166.042	-	-	-	-	-	-	-	Continuing	Continuing

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 has 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 completed in 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.953	2.985	1.778	-	1.778	1.197	5.303	9.271
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	15.647	1.000	1.308	-	1.308	1.280	6.105	7.487
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	33.600	3.985	3.086	-	3.086	2.477	11.408	16.758

Justification:

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 3005GZ1700 / 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 2019 Base procurement dollars in the amount of \$3.086 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-R), Chief of Section Display (CSD-R) 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. Other modifications included in the retrofit activities include chrome cannon tubes. The chrome tubes increase system durability and mitigate residue issues when firing the Modular Artillery Charge System (MACS).</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: PB 2019 Army **Date:** February 2018

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: 3010GB3007 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	854.853	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	854.853	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	854.853	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673	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>)	6.985	0.314	0.309	0.329	-	0.329	0.777	-	-	-	Continuing	Continuing

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) decreases 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 Carbine configuration to include the M4A1 heavy barrel assembly and full auto trigger mechanism and adding new ambidextrous fire control selector assembly.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	
Army	Quantity	-	-	-	-	-	-	-	-	
	Total Obligation Authority	20.536	23.085	15.647	-	15.647	6.081	10.791	10.785	
ANG	Quantity	-	-	-	-	-	-	-	-	
	Total Obligation Authority	5.551	6.502	14.336	-	14.336	10.689	-	-	
AR	Quantity	-	-	-	-	-	-	-	-	
	Total Obligation Authority	1.665	1.728	1.592	-	1.592	0.891	-	-	
Total:	Quantity	-	-	-	-	-	-	-	-	
Secondary Distribution	Total Obligation Authority	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 3010GB3007 / M4 Carbine 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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)		A		- / 854.853	- / 27.752	- / 31.315	- / 31.575	- / -	- / 31.575
P-40	Total Gross/Weapon System Cost				- / 854.853	- / 27.752	- / 31.315	- / 31.575	- / -	- / 31.575

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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)		A		- / 17.661	- / 10.791	- / 10.785	- / 10.673	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 17.661	- / 10.791	- / 10.785	- / 10.673	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 2019 Base procurement dollars in the amount of \$31.575 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 configuration to include the M4A1 heavy barrel assembly and full auto trigger mechanism and adding new ambidextrous fire control selector assembly. FY2019 funding covers labor for the M4 PIP system support modification work order team (MWO) to include the M4 PIP Staging Facility located in Anniston, Alabama, the M4 PIP Installation travel teams, and Tank Automotive Command (TACOM) MWO Support Team. The IWCK has been reconfigured to increase the utility to the Soldier and drive down unit cost. The Individual Kit contains the tools to clean 5.56mm weapon systems, while the Team Kit contain tools to clean 5.56mm, 7.62mm, 9mm, and .45 caliber weapons systems.

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

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3010GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP

ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	854.853	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	854.853	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	854.853	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	6.985	0.314	0.309	0.329	-	0.329	0.777	-	-	-	Continuing	Continuing

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) decreases 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 Carbine configuration to include the M4A1 heavy barrel assembly and full auto trigger mechanism and adding new ambidextrous fire control selector assembly.

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.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.536	23.085	15.647	-	15.647	6.081	10.791	10.785	10.673
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.551	6.502	14.336	-	14.336	10.689	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.665	1.728	1.592	-	1.592	0.891	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: 3010GB3007 / M4 Carbine Mods						Modification Number / Title: GB3007 / M4 PIP			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: M4/M4A1 CARBINE				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 4: Combat Optics/Small Arms Fire Control Squad													
B Kits													
Recurring													
Combat Optics	459,113 / 380.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	459,113 / 380.289	
Program Management (Non- Labor)	- / 11.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 11.550	
Test	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.400	
Integrated Logistical Support	- / 2.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.990	
Total Package Fielding	- / 2.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.100	
New Equipment Training	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.100	
Subtotal: Recurring	459,113 / 397.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	459,113 / 397.429	
Subtotal: Combat Optics/Small Arms Fire Control Squad	459,113 / 397.429	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	459,113 / 397.429	
Modification Item 2 of 4: Close Quarters Battle Kit													
B Kits													
Recurring													
Close Quarters Battle Kit	149,182 / 302.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	149,182 / 302.600	
Improved Weapons Cleaning Kit (Indv)	240,811 / 19.911	50,000 / 5.270	64,788 / 6.251	42,395 / 4.649	- / -	42,395 / 4.649	4,845 / 0.542	47,646 / 5.527	46,230 / 5.379	46,900 / 5.487	Continuing	Continuing	
Improved Weapons Cleaning Kit (Team)	13,251 / 1.348	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	13,251 / 1.348	
Improved Magazines	119,760 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	119,760 / 1.000	
Enhanced Performance Magazines	- / -	30,250 / 0.364	166,666 / 2.000	278,000 / 3.336	- / -	278,000 / 3.336	25,000 / 0.300	123,794 / 1.485	127,415 / 1.529	131,250 / 1.575	- / 0.000	882,375 / 10.589	
Program Management (Non- Labor)	- / 0.927	- / 0.963	- / 0.190	- / 0.100	- / -	- / 0.100	- / 0.150	- / 0.155	- / 0.164	- / 0.178	- / 0.000	- / 2.827	
Engineering Support	- / 13.788	- / 0.366	- / 0.317	- / 0.400	- / -	- / 0.400	- / 0.325	- / 0.330	- / 0.335	- / 0.340	- / 0.000	- / 16.201	
Integrated Logistic Support	- / 14.740	- / 0.020	- / 0.025	- / 0.020	- / -	- / 0.020	- / 0.020	- / 0.030	- / 0.035	- / 0.040	- / 0.000	- / 14.930	
Total Package Fielding	- / 2.944	- / 0.100	- / 0.105	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.055	- / 0.060	- / 0.065	- / 0.000	- / 3.429	
Subtotal: Recurring	523,004 / 347.258	80,250 / 7.083	231,454 / 8.888	320,395 / 8.555	- / -	320,395 / 8.555	29,845 / 1.387	171,440 / 7.582	173,645 / 7.502	178,150 / 7.685	Continuing	Continuing	
Subtotal: Close Quarters Battle Kit	523,004 / 347.258	80,250 / 7.083	231,454 / 8.888	320,395 / 8.555	- / -	320,395 / 8.555	29,845 / 1.387	171,440 / 7.582	173,645 / 7.502	178,150 / 7.685	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army											Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: 3010GB3007 / M4 Carbine Mods							Modification Number / Title: GB3007 / M4 PIP		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: M4/M4A1 CARBINE				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Modification Item 3 of 4: M4 Product Improvement Program (PIP) Phase I													
B Kits													
Recurring													
Hardware M4 PIP Phase 1 (kit equivalent)	483,000 / 73.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	483,000 / 73.802	
Hardware PIP Parts (bench stocks,others)	- / 7.732	- / 3.438	- / 3.461	- / 3.540	- / -	- / 3.540	- / 2.837	- / -	- / -	- / -	- / 0.000	- / 21.008	
System Support MWO Team/TACOM	- / 5.244	- / 1.318	- / 1.065	- / 1.266	- / -	- / 1.266	- / 1.289	- / -	- / -	- / -	- / 0.000	- / 10.182	
Program Management (Non-Labor)	- / 2.576	- / 0.320	- / 0.825	- / 0.830	- / -	- / 0.830	- / 0.835	- / -	- / -	- / -	- / 0.000	- / 15.386	
Engineering Support	- / 2.903	- / 0.420	- / 0.479	- / 0.550	- / -	- / 0.550	- / 0.500	- / -	- / -	- / -	- / 0.000	- / 14.852	
Integrated Logistics Support	- / 1.866	- / -	- / 0.045	- / 0.048	- / -	- / 0.048	- / 0.055	- / -	- / -	- / -	- / 0.000	- / 12.014	
Transportation Costs	- / 1.420	- / 0.500	- / 0.550	- / 0.515	- / -	- / 0.515	- / 0.520	- / -	- / -	- / -	- / 0.000	- / 13.505	
Inspect and Repair USAR 8th ARMY	- / 0.178	- / 0.154	- / 0.168	- / 0.171	- / -	- / 0.171	- / 0.168	- / -	- / -	- / -	- / 0.000	- / 0.839	
Subtotal: Recurring	483,000 / 95.721	- / 6.150	- / 6.593	- / 6.920	- / -	- / 6.920	- / 6.204	- / -	- / -	- / -	- / -	483,000 / 121.588	
Subtotal: M4 Product Improvement Program (PIP) Phase I	483,000 / 95.721	- / 6.150	- / 6.593	- / 6.920	- / -	- / 6.920	- / 6.204	- / -	- / -	- / -	- / -	483,000 / 121.588	
Modification Item 4 of 4: Extended Forward Rail Systems MWO Kits													
A Kits													
Recurring													
Extended Rail System MWO Kit (Hardware)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,021 / 1.521	1,994 / 1.500	1,707 / 1.285	- / 0.000	5,722 / 4.306	
Program Management	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 0.550	- / 0.570	- / 0.000	- / 1.620	
Engineering Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 0.350	- / 0.360	- / 0.000	- / 1.010	
Intergrated Logistic Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.080	- / 0.085	- / 0.090	- / 0.000	- / 0.255	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,021 / 2.401	1,994 / 2.485	1,707 / 2.305	- / -	5,722 / 7.191	
Subtotal: Extended Forward Rail Systems MWO Kits	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	2,021 / 2.401	1,994 / 2.485	1,707 / 2.305	- / -	5,722 / 7.191	
Subtotal: Procurement, All Modification Items	1,465,117 / 840.408	80,250 / 13.233	231,454 / 15.481	320,395 / 15.475	- / -	320,395 / 15.475	29,845 / 7.591	173,461 / 9.983	175,639 / 9.987	179,857 / 9.990	Continuing	Continuing	
Installation													
Modification Item 3 of 4: M4 Product Improvement Program (PIP) Phase I	122,378 / 14.445	91,048 / 14.519	101,450 / 15.834	96,000 / 16.100	- / -	96,000 / 16.100	59,490 / 10.070	- / -	- / -	- / -	- / -	470,366 / 70.968	
Modification Item 4 of 4: Extended Forward Rail Systems MWO Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,021 / 0.808	1,994 / 0.798	1,707 / 0.683	- / -	5,722 / 2.289	

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Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3010GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Models of Systems Affected: M4/M4A1 CARBINE **Modification Type:** Increase Performance **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
<i>Subtotal: Installation</i>	122,378 / 14.445	91,048 / 14.519	101,450 / 15.834	96,000 / 16.100	0 / 0.000	96,000 / 16.100	59,490 / 10.070	2,021 / 0.808	1,994 / 0.798	1,707 / 0.683	- / -	476,088 / 73.257
Total												
Total Cost (Procurement + Support + Installation)	854.853	27.752	31.315	31.575	-	31.575	17.661	10.791	10.785	10.673	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3010GB3007 / M4 Carbine Mods			Modification Number / Title: GB3007 / M4 PIP	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 4: 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Soldiers						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3010GB3007 / M4 Carbine Mods			Modification Number / Title: GB3007 / M4 PIP	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Modification Item 2 of 4: Close Quarters Battle Kit							
Manufacturer Information							
Manufacturer Name: DLA Tailoring Logistic Support(various vendors)				Manufacturer Location: Philadelphia, PA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023
Delivery Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Installation Information							
Method of Implementation (Organic): Installed by Soldiers					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3010GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 3 of 4: 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019			
Delivery Dates	Dec 2016	Dec 2017	Dec 2018	Dec 2019			

Installation Information

Method of Implementation: Installed by TACOM

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	122,378 / 14.445	91,048 / 14.519	101,450 / 15.834	96,000 / 16.100	- / -	96,000 / 16.100	59,490 / 10.070	- / -	- / -	- / -	- / -	470,366 / 70.968
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	122,378 / 14.445	91,048 / 14.519	101,450 / 15.834	96,000 / 16.100	0 / 0.000	96,000 / 16.100	59,490 / 10.070	- / -	- / -	- / -	- / -	470,366 / 70.968

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	122,378	22,762	22,762	22,762	22,762	25,362	25,362	25,362	25,362	24,000	24,000	24,000	24,000	14,873	14,873	14,873	14,872	-	-	-	-	-	-	-	-	-	-	-	-	-	-	470,366
Out	122,378	22,762	22,762	22,762	22,762	25,362	25,362	25,362	25,362	24,000	24,000	24,000	24,000	14,873	14,873	14,872	14,872	-	-	-	-	-	-	-	-	-	-	-	-	-	-	470,366

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3010GB3007 / M4 Carbine Mods	Modification Number / Title: GB3007 / M4 PIP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 4 of 4: Extended Forward Rail Systems MWO Kits

Manufacturer Information

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

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Jan 2021	Jan 2022	Jan 2023
Delivery Dates					Mar 2021	Mar 2022	Mar 2023

Installation Information

Method of Implementation: Installed by Tacom

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,021 / 0.808	1,994 / 0.798	1,707 / 0.683	- / -	5,722 / 2.289
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	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	- / -	2,021 / 0.808	1,994 / 0.798	1,707 / 0.683	- / -	5,722 / 2.289

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	505	505	505	506	500	500	500	494	1,707	5,722
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	505	505	505	506	500	500	500	494	1,707	5,722

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 3015GB4000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Cost (\$ in Millions)</i>	300.712	48.582	47.414	21.600	4.920	26.520	12.490	10.116	3.973	0.849	Continuing	Continuing
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P-1) (\$ in Millions)</i>	300.712	48.582	47.414	21.600	4.920	26.520	12.490	10.116	3.973	0.849	Continuing	Continuing
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	300.712	48.582	47.414	21.600	4.920	26.520	12.490	10.116	3.973	0.849	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
<i>Initial Spares (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Flyaway Unit Cost (\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Unit Cost (\$ in Thousands)</i>	16.013	4.218	6.433	6.923	5.899	6.707	7.743	-	14.039	3.000	Continuing	Continuing

Description:

The M2A1 Quick Change Barrel (QCB) Kit provides enhancements for the .50 Caliber M2 Heavy Barrel Machine Gun to allow the Soldier to quickly change barrels without the need to reset the headspace and timing while also reducing 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.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 3015GB4000 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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)		A		- / 300.712	- / 48.582	- / 47.414	- / 21.600	- / 4.920	- / 26.520
P-40	Total Gross/Weapon System Cost				- / 300.712	- / 48.582	- / 47.414	- / 21.600	- / 4.920	- / 26.520

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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)		A		- / 12.490	- / 10.116	- / 3.973	- / 0.849	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 12.490	- / 10.116	- / 3.973	- / 0.849	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 2019 Base procurement dollars in the amount of \$21.600 million supports the Active Army and National Guard by purchasing 1,517 MK93 Improvement Kits and 3,120 Mounted Machine Gun Optics. Continues the installation of 1,071 Quick Change Barrel Kits to convert the M2 Machine Gun to a M2A1 Machine Gun.

The FY 2019 Overseas Contingency Operations (OCO) procurement dollars in the amount of \$4.920 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the procurement of 539 M205 Tripods. 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-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3015GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	300.712	48.582	47.414	21.600	4.920	26.520	12.490	10.116	3.973	0.849	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	300.712	48.582	47.414	21.600	4.920	26.520	12.490	10.116	3.973	0.849	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	300.712	48.582	47.414	21.600	4.920	26.520	12.490	10.116	3.973	0.849	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	16.013	4.218	6.433	6.923	5.899	6.707	7.743	-	14.039	3.000	Continuing	Continuing

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.

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: 3015GB4000 / M2 50 Cal Machine Gun MODS					Modification Number / Title: GB4000 / M2 Mods			
ID Code (A=Service Ready, B=Not Service Ready) : A							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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 4: M2A1 Quick Change Barrel Kit													
B Kits													
Recurring													
Hardware Quick Change Barrel Kits	3,800 / 198.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Engineering Support	- / 7.919	- / 1.150	- / 1.150	- / 0.855	- / -	- / 0.855	- / 0.750	- / 0.896	- / 0.346	- / -	- / 0.000	- / 13.066	
Program Management Support (Non-Labor)	- / 2.376	- / 0.570	- / 0.828	- / 0.675	- / -	- / 0.675	- / 0.626	- / 0.697	- / 0.639	- / 0.299	- / 0.000	- / 6.710	
Integrated Logistics Support	- / 1.280	- / 0.330	- / 0.330	- / 0.330	- / -	- / 0.330	- / 0.300	- / 0.330	- / 0.150	- / -	- / 0.000	- / 3.050	
Fielding	- / 1.400	- / 0.300	- / 0.300	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.300	- / -	- / 0.000	- / 4.100	
New Equipment Training	- / 1.470	- / 0.300	- / 0.400	- / 0.700	- / -	- / 0.700	- / 0.700	- / 0.700	- / 0.300	- / 0.275	- / 0.000	- / 4.845	
First Destination Transportation	- / 1.741	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.275	- / 0.000	- / 2.516	
Engineering Studies	- / 2.137	- / 1.378	- / 1.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 5.385	
Testing	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.800	
Anniston Packaging	- / 2.122	- / 1.226	- / 2.453	- / 0.447	- / -	- / 0.447	- / -	- / -	- / -	- / -	- / 0.000	- / 6.248	
Subtotal: Recurring	3,800 / 219.330	- / 5.354	- / 7.431	- / 3.707	- / -	- / 3.707	- / 3.076	- / 3.323	- / 1.735	- / 0.849	Continuing	Continuing	
Subtotal: M2A1 Quick Change Barrel Kit	3,800 / 219.330	- / 5.354	- / 7.431	- / 3.707	- / -	- / 3.707	- / 3.076	- / 3.323	- / 1.735	- / 0.849	Continuing	Continuing	
Modification Item 2 of 4: Tripods													
B Kits													
Recurring													
M3 Tripods	1,305 / 8.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1,305 / 8.500	
M205 Tripod	7,292 / 50.174	10,072 / 18.637	1,173 / 6.055	0 / 0.000	539 / 3.982	539 / 3.982	- / -	- / -	- / -	- / -	- / 0.000	19,076 / 78.848	
Engineering Support	- / 2.331	- / 3.700	- / 0.850	- / 0.000	- / 0.200	- / 0.200	- / 0.700	- / -	- / -	- / -	- / 0.000	- / 7.781	
Program Management Support (Non-Labor)	- / 6.115	- / 3.262	- / 4.459	- / 0.000	- / 0.738	- / 0.738	- / 1.405	- / -	- / -	- / -	- / 0.000	- / 15.979	
Integrated Logistics Support	- / 0.600	- / 0.275	- / 0.150	- / -	- / -	- / -	- / 0.140	- / -	- / -	- / -	- / 0.000	- / 1.165	
New Equipment Training	- / 0.667	- / 0.325	- / 0.425	- / -	- / -	- / -	- / 0.500	- / 0.150	- / -	- / -	- / 0.000	- / 2.067	
Fielding	- / 0.565	- / 0.275	- / 0.400	- / -	- / -	- / -	- / 0.600	- / 0.100	- / -	- / -	- / 0.000	- / 1.940	
Engineering Study	- / 0.575	- / 0.693	- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.968	
M205 Tripod - Rock Island Arsenal (RIA)	- / -	350 / 3.493	117 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	467 / 6.493	
Engineering Change Proposal	- / -	- / 1.750	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.150	
Testing (First Article)	- / 1.780	- / -	- / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.530	
First Destination Transportation	- / 0.499	- / 0.209	- / 0.050	- / -	- / -	- / -	- / 0.025	- / -	- / -	- / -	- / 0.000	- / 0.783	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: 3015GB4000 / M2 50 Cal Machine Gun MODS					Modification Number / Title: GB4000 / M2 Mods			
ID Code (A=Service Ready, B=Not Service Ready) : A							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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Prototype Integration Facility	- / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.225	
<i>Subtotal: Recurring</i>	8,597 / 72.031	10,422 / 32.619	1,290 / 17.239	- / -	539 / 4.920	539 / 4.920	- / 3.370	- / 0.250	- / -	- / -	- / -	20,848 / 130.429	
<i>Subtotal: Tripods</i>	8,597 / 72.031	10,422 / 32.619	1,290 / 17.239	- / 0.000	539 / 4.920	539 / 4.920	- / 3.370	- / 0.250	- / -	- / -	- / -	20,848 / 130.429	
Modification Item 3 of 4: MK93 Improvements													
B Kits													
Recurring													
MK93 Improvements	- / -	3,445 / 5.482	4,681 / 8.340	1,517 / 5.666	- / -	1,517 / 5.666	244 / 2.295	650 / 2.598	90 / 0.369	- / -	- / 0.000	10,627 / 24.750	
Engineering Support	- / 0.710	- / 1.000	- / 0.550	- / 0.400	- / -	- / 0.400	- / 0.226	- / 0.435	- / 0.305	- / -	- / 0.000	- / 3.626	
Program Management Support (Non-Labor)	- / 2.244	- / 0.977	- / 1.851	- / 1.911	- / -	- / 1.911	- / 0.927	- / 0.860	- / 0.496	- / -	- / 0.000	- / 9.266	
Integrated Logistics Support	- / -	- / 0.100	- / 0.125	- / 0.175	- / -	- / 0.175	- / 0.150	- / 0.175	- / 0.150	- / -	- / 0.000	- / 0.875	
Material Work Order (ANAD)	- / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.650	
Material Work Order (TACOM)	- / -	- / 0.400	- / 0.625	- / 0.625	- / -	- / 0.625	- / 0.325	- / 0.450	- / 0.075	- / -	- / 0.000	- / 2.500	
Testing (First Article)	- / -	- / 0.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.350	
Testing	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.500	
Engineering Studies	- / 1.525	- / 1.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.975	
First Destination Transportation	- / -	- / -	- / 0.020	- / 0.020	- / -	- / 0.020	- / 0.010	- / 0.025	- / 0.005	- / -	- / 0.000	- / 0.080	
<i>Subtotal: Recurring</i>	- / 5.629	3,445 / 9.759	4,681 / 11.511	1,517 / 8.797	- / -	1,517 / 8.797	244 / 3.933	650 / 4.543	90 / 1.400	- / -	- / -	10,627 / 45.572	
<i>Subtotal: MK93 Improvements</i>	- / 5.629	3,445 / 9.759	4,681 / 11.511	1,517 / 8.797	- / -	1,517 / 8.797	244 / 3.933	650 / 4.543	90 / 1.400	- / -	- / -	10,627 / 45.572	
Modification Item 4 of 4: Mounted Machine Gun Optic													
B Kits													
Recurring													
Mounted MG Optic	- / -	- / -	1,400 / 8.436	3,120 / 5.441	- / -	3,120 / 5.441	785 / 1.325	729 / 1.064	203 / 0.042	- / -	Continuing	Continuing	
Engineering Support	- / -	- / -	- / 0.404	- / 0.825	- / -	- / 0.825	- / 0.375	- / 0.325	- / 0.142	- / -	- / 0.000	- / 2.071	
Program Management Support (Non-Labor)	- / -	- / -	- / 1.038	- / 1.362	- / -	- / 1.362	- / 0.211	- / 0.211	- / 0.329	- / -	- / 0.000	- / 3.151	
Integrated Logistics Support	- / -	- / -	- / 0.080	- / 0.350	- / -	- / 0.350	- / 0.100	- / 0.200	- / 0.100	- / -	- / 0.000	- / 0.830	
Fielding	- / -	- / -	- / 0.300	- / 0.350	- / -	- / 0.350	- / 0.050	- / 0.100	- / 0.100	- / -	- / 0.000	- / 0.900	
New Equipment Training	- / -	- / -	- / 0.125	- / 0.375	- / -	- / 0.375	- / 0.050	- / 0.100	- / 0.125	- / -	- / 0.000	- / 0.775	
<i>Subtotal: Recurring</i>	- / -	- / -	1,400 / 10.383	3,120 / 8.703	- / -	3,120 / 8.703	785 / 2.111	729 / 2.000	203 / 0.838	- / -	Continuing	Continuing	
<i>Subtotal: Mounted Machine Gun Optic</i>	- / -	- / -	1,400 / 10.383	3,120 / 8.703	- / -	3,120 / 8.703	785 / 2.111	729 / 2.000	203 / 0.838	- / -	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	12,397 / 296.990	13,867 / 47.732	7,371 / 46.564	4,637 / 21.207	539 / 4.920	5,176 / 26.127	1,029 / 12.490	1,379 / 10.116	293 / 3.973	- / 0.849	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3015GB4000 / 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) : A **MDAP/MAIS Code:**

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

Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Installation												
<i>Modification Item 1 of 4:</i> M2A1 Quick Change Barrel Kit	19,925 / 3.722	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	- / -	1,071 / 0.393	- / -	- / -	- / -	- / -	- / -	31,796 / 5.815
<i>Subtotal: Installation</i>	19,925 / 3.722	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	0 / 0.000	1,071 / 0.393	- / -	- / -	- / -	- / -	- / -	31,796 / 5.815
Total												
Total Cost (Procurement + Support + Installation)	300.712	48.582	47.414	21.600	4.920	26.520	12.490	10.116	3.973	0.849	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3015GB4000 / M2 50 Cal Machine Gun MODS	Modification Number / Title: GB4000 / M2 Mods

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

Administrative Leadtime (in Months): 5 Production Leadtime (in Months): 8

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Feb 2017	Feb 2018	Feb 2019				
Delivery Dates	Oct 2017	Oct 2018	Oct 2019				

Installation Information

Method of Implementation: Overhaul/conversion

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	19,925 / 3.722	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	- / -	1,071 / 0.393	- / -	- / -	- / -	- / -	- / -	31,796 / 5.815
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	19,925 / 3.722	5,400 / 0.850	5,400 / 0.850	1,071 / 0.393	0 / 0.000	1,071 / 0.393	- / -	- / -	- / -	- / -	- / -	31,796 / 5.815

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	19,925	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31,796
Out	19,925	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31,796

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3015GB4000 / M2 50 Cal Machine Gun MODS			Modification Number / Title: GB4000 / M2 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017	Mar 2018	Mar 2019				
Delivery Dates	Dec 2017	Dec 2018	Dec 2019				
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3015GB4000 / M2 50 Cal Machine Gun MODS			Modification Number / Title: GB4000 / M2 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jul 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	
Delivery Dates	Mar 2018	Dec 2018	Dec 2019	Dec 2020	Dec 2021	Dec 2022	
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3015GB4000 / M2 50 Cal Machine Gun MODS			Modification Number / Title: GB4000 / M2 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	
Delivery Dates		Jan 2019	Jan 2020	Jan 2021	Jan 2022	Jan 2023	
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 3020GZ1290 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	215.431	1.179	3.339	3.924	-	3.924	4.487	3.414	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	215.431	1.179	3.339	3.924	-	3.924	4.487	3.414	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	215.431	1.179	3.339	3.924	-	3.924	4.487	3.414	-	-	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 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.179	3.339	3.924	-	3.924	4.487	3.414	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.179	3.339	3.924	-	3.924	4.487	3.414	-

Justification:

FY 2019 Base procurement dollars in the amount of \$3.924 million supports the Active Army by purchasing Collapsible Buttstocks and M197 Modification Work Order (MWO) Kits (drop-in mount cradle) for the M249 SAW Machine Gun weapon system. Continues support on Short Barrels, Short Barrel Blank Firing Adapters (BFA), M192 Lightweight Ground Mount improvements (MWO Kits), and Feedbox Support

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 3020GZ1290 / 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: PB 2019 Army **Date:** February 2018

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: 3030GZ1300 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	164.817	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	164.817	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	164.817	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390	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>)	-	-	-	-	1.750	1,736.750	8.525	7.397	6.296	2.827	Continuing	Continuing

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 3030GZ1300 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	GZ1300 / M240 Series System Improvements (Increase Performance)		A		- / 164.817	- / 1.784	- / 4.577	- / 6.940	- / 0.007	- / 6.947
P-40	Total Gross/Weapon System Cost				- / 164.817	- / 1.784	- / 4.577	- / 6.940	- / 0.007	- / 6.947

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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	GZ1300 / M240 Series System Improvements (Increase Performance)		A		- / 10.315	- / 6.635	- / 5.358	- / 3.390	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 10.315	- / 6.635	- / 5.358	- / 3.390	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 2019 Base procurement dollars in the amount of \$6.940 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 and M192 MWO Kit which delivers a system improvement to this lightweight tripod. Production of the items allow for fielding to approximately 22 Infantry Brigade Combat Teams (IBCT). Funding also continues support on the Improved Buffer, Improved Barrel, and M197 Modification Work Order (MWO) Kit (drop-in mount cradle). M240L reduces the Soldier's combat load while allowing easier handling and movement of the weapon.

FY 2019 Overseas Contingency Operations (OCO) in the amount of \$0.007 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the Active Army by purchasing system enhancements for the M240B/L Medium Machine Gun Weapon System

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

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3030GZ1300 / M240 Medium Machine Gun MODS	Modification Number / Title: GZ1300 / M240 Series System Improvements

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	164.817	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	164.817	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	164.817	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	1.750	1,736.750	8.525	7.397	6.296	2.827	Continuing	Continuing

Description:

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

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: 3030GZ1300 / M240 Medium Machine Gun MODS					Modification Number / Title: GZ1300 / M240 Series System Improvements			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: M240 Medium Machine Gun				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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													
<i>Modification Item 1 of 1:</i> M240 Series System Improvements													
B Kits													
Recurring													
Bipods	4,700 / 16.413	856 / 0.566	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	5,556 / 16.979	
Collapsible Buttstock	6,890 / 14.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	6,890 / 14.724	
Ti Adjustable Bipods	1,277 / 0.453	- / -	800 / 0.507	2,200 / 1.429	- / -	2,200 / 1.429	3,200 / 2.130	838 / 0.572	- / -	- / -	- / 0.000	8,315 / 5.091	
Improved Buffer	34,196 / 19.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	34,196 / 19.200	
Improved Barrel	4,400 / 13.520	- / -	2,000 / 1.876	2,600 / 2.488	- / -	2,600 / 2.488	2,900 / 2.830	2,000 / 1.991	2,000 / 2.011	- / -	- / 0.000	15,900 / 24.716	
M197 MWO Kit Drop-in Mount Cradle	230 / 10.150	879 / 0.609	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1,109 / 10.759	
M192 Modification Work Order Kit	- / -	- / -	- / -	384 / 0.581	- / -	384 / 0.581	- / -	- / -	- / -	- / -	- / 0.000	384 / 0.581	
Engineering Support	- / 30.998	- / 0.234	- / 0.994	- / 0.802	- / 0.007	- / 0.809	- / 1.256	- / 0.891	- / 0.502	- / 0.170	- / 0.000	- / 35.854	
Program Management Support	- / 31.031	- / 0.120	- / 0.555	- / 0.876	- / -	- / 0.876	- / 1.042	- / 0.672	- / 0.424	- / 0.482	- / 0.000	- / 35.202	
Integrated Logistical Support	- / 15.799	- / 0.130	- / 0.220	- / 0.314	- / -	- / 0.314	- / 0.312	- / 0.295	- / 0.140	- / 0.121	- / 0.000	- / 17.331	
Fielding	- / 12.529	- / 0.125	- / 0.425	- / 0.450	- / -	- / 0.450	- / 0.450	- / 0.492	- / 0.460	- / 0.300	- / 0.000	- / 15.231	
Mounted MG Optic (MMO)	- / -	- / -	- / -	- / -	- / -	- / -	1,210 / 2.295	897 / 1.722	851 / 1.821	1,199 / 2.317	Continuing	Continuing	
<i>Subtotal: Recurring</i>	51,693 / 164.817	1,735 / 1.784	2,800 / 4.577	5,184 / 6.940	- / 0.007	5,184 / 6.947	7,310 / 10.315	3,735 / 6.635	2,851 / 5.358	1,199 / 3.390	Continuing	Continuing	
<i>Subtotal: M240 Series System Improvements</i>	51,693 / 164.817	1,735 / 1.784	2,800 / 4.577	5,184 / 6.940	- / 0.007	5,184 / 6.947	7,310 / 10.315	3,735 / 6.635	2,851 / 5.358	1,199 / 3.390	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	51,693 / 164.817	1,735 / 1.784	2,800 / 4.577	5,184 / 6.940	- / 0.007	5,184 / 6.947	7,310 / 10.315	3,735 / 6.635	2,851 / 5.358	1,199 / 3.390	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	164.817	1.784	4.577	6.940	0.007	6.947	10.315	6.635	5.358	3.390	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3030GZ1300 / M240 Medium Machine Gun MODS			Modification Number / Title: GZ1300 / M240 Series System Improvements	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: M240 Series System Improvements							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 3181GZ1500 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39.585	1.963	1.488	2.747	-	2.747	0.958	1.932	1.890	1.926	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	39.585	1.963	1.488	2.747	-	2.747	0.958	1.932	1.890	1.926	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	39.585	1.963	1.488	2.747	-	2.747	0.958	1.932	1.890	1.926	Continuing	Continuing

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

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

Description:

Program to 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.963	1.488	2.747	-	2.747	0.958	1.932	1.890	1.926
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.963	1.488	2.747	-	2.747	0.958	1.932	1.890	1.926

Justification:

FY 2019 Base procurement dollars in the amount of \$2.747 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, and M107 LRSR Modifications. These studies, modifications, and

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 3181GZ1500 / 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>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: PB 2019 Army **Date:** February 2018

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: 3640GC0401 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	331.630	37.243	12.678	5.704	-	5.704	6.559	2.087	-	-	-	395.901
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	331.630	37.243	12.678	5.704	-	5.704	6.559	2.087	-	-	-	395.901
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	331.630	37.243	12.678	5.704	-	5.704	6.559	2.087	-	-	-	395.901

(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 M119A3 modifications budget supports the application of modernization system enhancements and includes the integration of digital fire control components previously type classified on other weapons. Other modifications to the howitzer include items such as: Recoil System Capability Package, to enhance survivability and durability by replacing the Buffer and Recuperator and modifying the suspension; Titanium firing platforms for enhanced durability; Fire Control Computer (FCC) covers to protect the FCC from damage; FCC thumb stick/mouse to allow FCC to remain mission capable with damaged touch screen; Resiliency and Software Assurance Modification to ensure robust Global Positioning System (GPS) capability; Software upgrade to accurately account for the effects of Blast Over Pressure; and radio modification which provides for the integration of a new Army software defined radio into the digital fire control system of the M119A3 howitzer. Funding in this program also supports the installation and retrofit of modification kits, training devices products and program management and technical support to the M119A3 Howitzer.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.186	3.608	2.912	-	2.912	3.502	1.196	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	18.057	9.070	2.792	-	2.792	3.057	0.891	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	37.243	12.678	5.704	-	5.704	6.559	2.087	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 3640GC0401 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	GC0401 / M119 Modifications (Increase Performance)		A		- / 331.630	- / 37.243	- / 12.678	- / 5.704	- / -	- / 5.704
P-40	Total Gross/Weapon System Cost				- / 331.630	- / 37.243	- / 12.678	- / 5.704	- / -	- / 5.704

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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	GC0401 / M119 Modifications (Increase Performance)		A		- / 6.559	- / 2.087	- / -	- / -	- / -	- / 395.901
P-40	Total Gross/Weapon System Cost				- / 6.559	- / 2.087	- / -	- / -	- / -	- / 395.901

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

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

Justification:

FY 2019 Base procurement dollars in the amount of \$5.704 million supports activities that include: Retrofit activities of previously purchased Recoil System Capability Package. Recoil System Capability enhances the durability of the howitzer and addresses deficiencies in the legacy recoil system. Resiliency and Software Assurance Modification (RSAM) to the M119A3 Digital Fire control System. The RSAM is a software modification which provides a more robust capability to receive Global Positioning System (GPS) signal to enhance survivability. Replacement radio integration hardware, (brackets and mounts) for the Digital Fire Control System. The radio currently in use on the howitzer is approaching obsolescence. The replacement radio will ensure continued ability to interface with the Fire Direction Center and receive accurate fire missions. Program lifecycle management, coordination, synchronization, technical oversight, business functions for the M119 howitzer.

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

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	331.630	37.243	12.678	5.704	-	5.704	6.559	2.087	-	-	-	395.901
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	331.630	37.243	12.678	5.704	-	5.704	6.559	2.087	-	-	-	395.901
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	331.630	37.243	12.678	5.704	-	5.704	6.559	2.087	-	-	-	395.901

(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:

Modifications to M119A2 Howitzer.

Mod 1 (Digitization): Procurement of the Digital Fire Control System contracted separately for each major component, with various contract award dates. Application occurs in Battalion sets of 17 each over two-month periods.

Mod 2 (Recoil Capability Package): New recoil system which enhances the survivability of the M119. The recoil system upgrade consists of the recoil buffer, recuperator, and suspension modification.

Mod 3 (TADSS): Training Aids, Devices, Simulators and Simulations (TADSS) for use in training artillerymen and maintainers in fielded units as well as in classroom instruction at school houses.

Mod 4 (Power System): Procure new power supply for the M119A3 Digital Fire Control System. The modification increased system electrical power to meet system operating requirements for low temperature environments.

Mod 5 (Durability): Procurement of: 502 each lightweight more durable titanium firing platforms, 502 each Fire Control Computer (FCC) covers to protect FCC from damage and, 250 each FCC thumb sticks/mouse to allow FCCs with damaged touch screens to remain mission capable. Prior years optimized the design of the spades on the M119 howitzer to increase durability and decrease weight.

Mod 6 (Retrofit and Composite Fielding Activities): Retrofit current howitzer fleet with upgraded recoil capability package, Digital Fire Control System, Resiliency and Software Assurance Modification, Blast Over Pressure software upgrade and Software Defined Radio. Fielding of the Digital Fire Control System will complete in FY18, while other retrofit activities will continue through FY21.

Mod 7 (Program Management): Program management support to the M119A3 Howitzer: lifecycle management, coordination & synchronization of field artillery solutions, technical oversight of projects, and business management functions.

Mod 8 (Software, Cyber Security) Resiliency Software Assurance Modification (RSAM): Qualify the Resiliency and Software Assurance Modification to ensure a robust GPS capability on the M119 howitzer.

Apply software upgrade to the GPS GB-GRAM receiver on the M119 fleet via a Modification Work Order. Upgrade software on the FCC to more accurately account for Blast Over Pressure effects on M119 crew and send a warning when safety limits approach.

Mod 9 (Digital Fire Control Tech Refresh) Procures integration hardware, such as cables and mounting brackets for software defined radio into digital fire control of M119 platform.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	19.186	3.608	2.912	-	2.912	3.502	1.196	-	-
ANG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	18.057	9.070	2.792	-	2.792	3.057	0.891	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	37.243	12.678	5.704	-	5.704	6.559	2.087	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications						Modification Number / Title: GC0401 / M119 Modifications		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: M119A2/A3 Howitzer				Modification Type: Increase Performance				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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: Digitization												
A Kits												
Recurring												
Integration Prod/Init Spares	502 / 133.497	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	502 / 133.497
Logistics & Fielding	- / 16.883	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 16.883
Program Management	- / 11.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 11.409
System Engineering	- / 19.576	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 19.576
Engineering Change Orders (ECO)	- / 15.723	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 15.723
Subtotal: Recurring	502 / 197.088	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 197.088
Subtotal: Digitization	502 / 197.088	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	502 / 197.088
Modification Item 2 of 9: Recoil Capability Package												
A Kits												
Recurring												
Recoil System Upgrade	502 / 47.579	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	502 / 47.579
Subtotal: Recurring	502 / 47.579	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 47.579
Subtotal: Recoil Capability Package	502 / 47.579	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	502 / 47.579
Modification Item 3 of 9: Training Devices (TADSS)												
A Kits												
Non-Recurring												
Training Devices	- / 5.747	- / 3.845	- / 3.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 13.470
Subtotal: Non-Recurring	- / 5.747	- / 3.845	- / 3.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.470
Subtotal: Training Devices (TADSS)	- / 5.747	- / 3.845	- / 3.878	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 13.470
Modification Item 4 of 9: Power System Management												
A Kits												
Non-Recurring												
Power System Mods	502 / 6.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	502 / 6.815
Subtotal: Non-Recurring	502 / 6.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 6.815
Subtotal: Power System Management	502 / 6.815	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	502 / 6.815
Modification Item 5 of 9: Durability Modification												
A Kits												

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications					Modification Number / Title: GC0401 / M119 Modifications			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: M119A2/A3 Howitzer				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Recurring													
Spades	- / 2.335	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.335	
Subtotal: Recurring	- / 2.335	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.335	
Non-Recurring													
Fire Control Computer Thumbsticks	- / -	250 / 1.658	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	250 / 1.658	
Titanium Firing Platforms	- / -	502 / 24.769	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	502 / 24.769	
Fire Control Computer Cover	- / -	502 / 1.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	502 / 1.443	
Subtotal: Non-Recurring	- / -	1,254 / 27.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,254 / 27.870	
Subtotal: Durability Modification	- / 2.335	1,254 / 27.870	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	1,254 / 30.205	
Modification Item 6 of 9: Retrofit and Composite Fielding Activities													
A Kits													
Recurring													
Retrofit and Composite Fielding Activiti	- / 172.066	- / 2.200	- / 8.800	- / 2.171	- / -	- / 2.171	- / 1.684	- / 0.822	- / -	- / -	- / 0.000	- / 87.743	
Subtotal: Recurring	- / 172.066	- / 2.200	- / 8.800	- / 2.171	- / -	- / 2.171	- / 1.684	- / 0.822	- / -	- / -	- / -	- / 87.743	
Subtotal: Retrofit and Composite Fielding Activities	- / 172.066	- / 2.200	- / 8.800	- / 2.171	- / -	- / 2.171	- / 1.684	- / 0.822	- / -	- / -	- / -	- / 87.743	
Modification Item 7 of 9: Program Management													
A Kits													
Recurring													
Program Management	- / -	- / -	- / -	- / 1.003	- / -	- / 1.003	- / 1.122	- / 1.265	- / -	- / -	- / 0.000	- / 3.390	
Subtotal: Recurring	- / -	- / -	- / -	- / 1.003	- / -	- / 1.003	- / 1.122	- / 1.265	- / -	- / -	- / -	- / 3.390	
Subtotal: Program Management	- / -	- / -	- / -	- / 1.003	- / -	- / 1.003	- / 1.122	- / 1.265	- / -	- / -	- / -	- / 3.390	
Modification Item 8 of 9: Software, Cyber Security													
A Kits													
Non-Recurring													
Blast Over Pressure Mitigation Software	- / -	- / 3.328	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.328	
RSAM	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.683	- / -	- / -	- / -	- / 0.000	- / 0.683	
Subtotal: Non-Recurring	- / -	- / 3.328	- / -	- / -	- / -	- / -	- / 0.683	- / -	- / -	- / -	- / -	- / 4.011	
Subtotal: Software, Cyber Security	- / -	- / 3.328	- / -	- / 0.000	- / -	- / 0.000	- / 0.683	- / -	- / -	- / -	- / -	- / 4.011	
Modification Item 9 of 9: Digital Fire Control Tech Refresh													
A Kits													

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications						Modification Number / Title: GC0401 / M119 Modifications		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: M119A2/A3 Howitzer				Modification Type: Increase Performance				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Non-Recurring												
Software Defined Radio	- / -	- / -	- / -	- / 2.530	- / -	- / 2.530	43 / 3.070	- / -	- / -	- / -	- / 0.000	43 / 5.600
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / -	- / 2.530	- / -	- / 2.530	43 / 3.070	- / -	- / -	- / -	- / -	43 / 5.600
<i>Subtotal: Digital Fire Control Tech Refresh</i>	- / -	- / -	- / -	- / 2.530	- / -	- / 2.530	43 / 3.070	- / -	- / -	- / -	- / -	43 / 5.600
<i>Subtotal: Procurement, All Modification Items</i>	1,506 / 331.630	1,254 / 37.243	- / 12.678	- / 5.704	- / -	- / 5.704	43 / 6.559	- / 2.087	- / -	- / -	- / -	2,803 / 395.901
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	331.630	37.243	12.678	5.704	-	5.704	6.559	2.087	-	-	-	395.901

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 9: Digitization							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 11			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Modification Item 2 of 9: Recoil Capability Package							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 3 of 9: Training Devices (TADSS)							
Manufacturer Information							
Manufacturer Name: Organic				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 1			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jun 2016	Jun 2017					
Delivery Dates	Jul 2016	Jul 2017					
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Modification Item 4 of 9: Power System Management							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 5 of 9: Durability Modification							
Manufacturer Information							
Manufacturer Name: Howmet Corporation				Manufacturer Location: Hampton, VA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 14			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017						
Delivery Dates	Mar 2018						
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 6 of 9: Retrofit and Composite Fielding Activities							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: Various			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 2			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021		
Delivery Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021		
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 7 of 9: Program Management							
Manufacturer Information							
Manufacturer Name: NA				Manufacturer Location: NA			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Oct 2018	Oct 2019	Oct 2020		
Delivery Dates			Oct 2018	Oct 2019	Oct 2020		
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 8 of 9: Software, Cyber Security							
Manufacturer Information							
Manufacturer Name: NA				Manufacturer Location: NA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017			Mar 2020			
Delivery Dates	Mar 2017			Mar 2020			
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications			Modification Number / Title: GC0401 / M119 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 9 of 9: Digital Fire Control Tech Refresh							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Nov 2018	Nov 2019			
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 7054G02100 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	121.482	12.118	3.998	3.965	-	3.965	-	-	-	-	-	141.563
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	121.482	12.118	3.998	3.965	-	3.965	-	-	-	-	-	141.563
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	121.482	12.118	3.998	3.965	-	3.965	-	-	-	-	-	141.563

(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>)	65.524	17.238	15.992	15.672	-	15.672	-	-	-	-	-	46.262

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, 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:

FY 2019 Base procurement dollars in the amount of \$3.965 million supports the procurement of 253 improved Handle and Firing Mechanisms (H&FM) for use with the M224A1 lightweight 60mm mortar, 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: PB 2019 Army **Date:** February 2018

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: 9280GC0925 / Modifications 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: 0604601A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	203.103	3.157	2.219	5.577	-	5.577	5.089	3.386	3.158	3.150	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	203.103	3.157	2.219	5.577	-	5.577	5.089	3.386	3.158	3.150	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	203.103	3.157	2.219	5.577	-	5.577	5.089	3.386	3.158	3.150	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>)	592.137	-	-	-	-	-	-	-	-	-	Continuing	Continuing

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. 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 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. 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.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:** 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	GC0925 / Modifications Less Than \$5.0M (Increase performance)		A		- / 203.103	- / 3.157	- / 2.219	- / 5.577	- / -	- / 5.577
P-40	Total Gross/Weapon System Cost				- / 203.103	- / 3.157	- / 2.219	- / 5.577	- / -	- / 5.577

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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	GC0925 / Modifications Less Than \$5.0M (Increase performance)		A		- / 5.089	- / 3.386	- / 3.158	- / 3.150	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 5.089	- / 3.386	- / 3.158	- / 3.150	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 2019 Base procurement dollars in the amount of \$5.577 million supports the Active Army by procuring 4,595 M192 MWO Kits to modify fielded systems. 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. Funding also supports the M197 MWO Kit that 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.

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

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)	Modification Number / Title: GC0925 / Modifications Less Than \$5.0M

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	203.103	3.157	2.219	5.577	-	5.577	5.089	3.386	3.158	3.150	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	203.103	3.157	2.219	5.577	-	5.577	5.089	3.386	3.158	3.150	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	203.103	3.157	2.219	5.577	-	5.577	5.089	3.386	3.158	3.150	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	592.137	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Description:

This program procures modification of small arms with a cost less than \$5.000 million to include the procurement of accessory components of snipers, optics, mounting systems, bipods, and tripods. 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. It will address identified shortcomings in the design and provide increased height of the pintle as well as improved performance of the traversing and elevation mechanism.

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)					Modification Number / Title: GC0925 / Modifications Less Than \$5.0M			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: Small Arms Weapons			Modification Type: Increase performance				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 8: M150 Rifle Combat Optic (RCO)													
B Kits													
Recurring													
M150 Rifle Combat Optic (RCO)	36,223 / 11.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	36,223 / 11.670	
Engineering Support	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.400	
Testing	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.200	
Integrated Logistical Support	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.300	
Fielding	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.300	
Subtotal: Recurring	36,223 / 12.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36,223 / 12.870	
Subtotal: M150 Rifle Combat Optic (RCO)	36,223 / 12.870	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	36,223 / 12.870	
Modification Item 2 of 8: Sniper Components and Accessories													
B Kits													
Recurring													
Sniper Components and Accessories	1,226 / 0.561	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1,226 / 0.561	
Engineering Support	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.100	
Testing	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.100	
Integrated Logistical Support	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.100	
Fielding	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.100	
Subtotal: Recurring	1,226 / 0.961	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,226 / 0.961	
Subtotal: Sniper Components and Accessories	1,226 / 0.961	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	1,226 / 0.961	
Modification Item 3 of 8: M145 Machine Gun Optic													
B Kits													
Recurring													
M145 Machine Gun Optic	37,349 / 23.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	37,349 / 23.900	
Support Equipment	- / 3.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.200	
Integrated Logistical Support	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.300	
Fielding	- / 0.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.417	
Subtotal: Recurring	37,349 / 27.817	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37,349 / 27.817	
Subtotal: M145 Machine Gun Optic	37,349 / 27.817	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	37,349 / 27.817	

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20					P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)					Modification Number / Title: GC0925 / Modifications Less Than \$5.0M			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: Small Arms Weapons			Modification Type: Increase performance				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Modification Item 4 of 8: Closed Mods													
A Kits													
Recurring													
Closed Mods	1 / 152.781	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 152.781
Subtotal: Recurring	1 / 152.781	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 152.781
Subtotal: Closed Mods	1 / 152.781	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	1 / 152.781
Modification Item 5 of 8: Tripods													
B Kits													
Recurring													
Tripods	1,821 / 4.223	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1,821 / 4.223
Engineering Support	- / 1.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.256
Subtotal: Recurring	1,821 / 5.479	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,821 / 5.479
Subtotal: Tripods	1,821 / 5.479	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	1,821 / 5.479
Modification Item 6 of 8: M197 MWO Kits													
B Kits													
Recurring													
M197 MWO Kits	1,270 / 1.252	1,028 / 0.983	467 / 0.318	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	2,765 / 2.553
Engineering Support	- / 0.185	- / 0.239	- / 0.126	- / 0.185	- / -	- / 0.185	- / 0.210	- / 0.250	- / -	- / -	- / 0.000	- / 1.195	
Program Management	- / 0.185	- / 0.254	- / 0.206	- / 0.178	- / -	- / 0.178	- / 0.211	- / 0.208	- / -	- / -	- / 0.000	- / 1.242	
Integrated Logistical Support	- / 0.030	- / 0.030	- / 0.050	- / 0.075	- / -	- / 0.075	- / 0.075	- / 0.060	- / -	- / -	- / 0.000	- / 0.320	
Modification Work Order Support	- / 0.285	- / 0.300	- / 0.250	- / 0.325	- / -	- / 0.325	- / 0.350	- / 0.300	- / -	- / -	- / 0.000	- / 1.810	
Testing (First Article)	- / 0.020	- / 0.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.090	
First Destination	- / -	- / -	- / 0.015	- / 0.015	- / -	- / 0.015	- / 0.015	- / 0.010	- / -	- / -	- / 0.000	- / 0.055	
ARDEC PIF	- / -	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.150	
Subtotal: Recurring	1,270 / 1.957	1,028 / 2.026	467 / 0.965	- / 0.778	- / -	- / 0.778	- / 0.861	- / 0.828	- / -	- / -	- / -	2,765 / 7.415	
Subtotal: M197 MWO Kits	1,270 / 1.957	1,028 / 2.026	467 / 0.965	- / 0.778	- / -	- / 0.778	- / 0.861	- / 0.828	- / -	- / -	- / -	2,765 / 7.415	
Modification Item 7 of 8: M192 MWO Kits													
B Kits													
Recurring													
M192 MWO Kits	- / -	295 / 0.448	603 / 0.509	4,595 / 2.884	- / -	4,595 / 2.884	2,844 / 1.839	1,096 / 0.730	1,316 / 0.903	1,379 / 0.980	Continuing	Continuing	
Engineering Support	- / 0.065	- / -	- / 0.135	- / 0.225	- / -	- / 0.225	- / 0.250	- / 0.250	- / 0.250	- / 0.250	- / 0.000	- / 1.425	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army											Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20				P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)							Modification Number / Title: GC0925 / Modifications Less Than \$5.0M		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: Small Arms Weapons				Modification Type: Increase performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Program Management Support	- / 0.242	- / 0.261	- / 0.280	- / 0.785	- / -	- / 0.785	- / 0.670	- / 0.537	- / 0.499	- / 0.529	- / 0.000	- / 3.803	
Engineering Study	- / -	- / 0.392	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.392	
Integrated Logistical Support	- / -	- / -	- / -	- / 0.050	- / -	- / 0.050	- / 0.060	- / 0.060	- / 0.060	- / 0.075	- / 0.000	- / 0.305	
Modification Work Order Support	- / -	- / -	- / 0.300	- / 0.425	- / -	- / 0.425	- / 0.450	- / 0.450	- / 0.450	- / 0.450	- / 0.000	- / 2.525	
Design Improvements	- / 0.499	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.499	
ARDEC PIF	- / 0.145	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.250	- / 0.200	- / 0.250	- / 0.150	- / 0.000	- / 1.195	
Aberdeen Test Center	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.150	
User Guides	- / 0.107	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.075	- / 0.175	- / 0.075	- / 0.075	- / 0.000	- / 0.707	
First Destination Transportation	- / 0.030	- / 0.030	- / 0.015	- / 0.030	- / -	- / 0.030	- / 0.060	- / 0.006	- / 0.060	- / 0.030	- / 0.000	- / 0.261	
Subtotal: Recurring	- / 1.238	295 / 1.131	603 / 1.239	4,595 / 4.799	- / -	4,595 / 4.799	2,844 / 3.654	1,096 / 2.408	1,316 / 2.547	1,379 / 2.539	Continuing	Continuing	
Subtotal: M192 MWO Kits	- / 1.238	295 / 1.131	603 / 1.239	4,595 / 4.799	- / -	4,595 / 4.799	2,844 / 3.654	1,096 / 2.408	1,316 / 2.547	1,379 / 2.539	Continuing	Continuing	
Modification Item 8 of 8: M205 Tripod MWO													
B Kits													
Recurring													
M205 Tripod MWO	- / -	- / -	- / -	- / -	- / -	- / -	205 / 0.216	- / -	378 / 0.183	366 / 0.183	- / 0.000	949 / 0.582	
Engineering Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.041	- / 0.035	- / 0.036	- / 0.085	- / 0.000	- / 0.197	
Program Management	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.052	- / 0.034	- / 0.056	- / 0.136	- / 0.000	- / 0.278	
Integrated Logistical Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.030	- / -	- / 0.075	- / 0.075	- / 0.000	- / 0.180	
Modification Work Order Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	- / 0.040	- / 0.050	- / 0.125	- / 0.000	- / 0.265	
First Destination Transportation	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.010	- / -	- / 0.007	- / 0.007	- / 0.000	- / 0.024	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	205 / 0.399	- / 0.109	378 / 0.407	366 / 0.611	- / -	949 / 1.526	
Subtotal: M205 Tripod MWO	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	205 / 0.399	- / 0.109	378 / 0.407	366 / 0.611	- / -	949 / 1.526	
Subtotal: Procurement, All Modification Items	77,890 / 203.103	1,323 / 3.157	1,070 / 2.204	4,595 / 5.577	- / -	4,595 / 5.577	3,049 / 4.914	1,096 / 3.345	1,694 / 2.954	1,745 / 3.150	Continuing	Continuing	
Installation													
Modification Item 7 of 8: M192 MWO Kits	- / -	- / -	- / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.015	
Modification Item 8 of 8: M205 Tripod MWO	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.175	- / 0.041	- / 0.204	- / -	- / -	- / 0.420	
Subtotal: Installation	0 / 0.000	0 / 0.000	0 / 0.015	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.175	0 / 0.041	0 / 0.204	- / -	- / -	0 / 0.435	
Total													
Total Cost (Procurement + Support + Installation)	203.103	3.157	2.219	5.577	-	5.577	5.089	3.386	3.158	3.150	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)			Modification Number / Title: GC0925 / Modifications Less Than \$5.0M	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 8: M150 Rifle Combat Optic (RCO)							
Manufacturer Information							
Manufacturer Name: TRIJICON, Inc				Manufacturer Location: Wixom, MI			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 4			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)			Modification Number / Title: GC0925 / Modifications Less Than \$5.0M	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 2 of 8: Sniper Components and Accessories							
Manufacturer Information							
Manufacturer Name: LEUPOLD & STEVENS, INC.				Manufacturer Location: Beaverton, OR			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 4			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)			Modification Number / Title: GC0925 / Modifications Less Than \$5.0M	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 3 of 8: M145 Machine Gun Optic							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)			Modification Number / Title: GC0925 / Modifications Less Than \$5.0M	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 4 of 8: Closed Mods							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)			Modification Number / Title: GC0925 / Modifications Less Than \$5.0M	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 5 of 8: Tripods							
Manufacturer Information							
Manufacturer Name: Capco, Inc.				Manufacturer Location: Grand Junction, CO			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20			P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)			Modification Number / Title: GC0925 / Modifications Less Than \$5.0M	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 6 of 8: M197 MWO Kits							
Manufacturer Information							
Manufacturer Name: Imperial Tool & Machine / Savit Corp.				Manufacturer Location: Columbia, NJ / Rockaway, NJ			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Aug 2017	Mar 2018					
Delivery Dates	Apr 2018	Nov 2018					
Installation Information							
Method of Implementation (Organic): Installed by Troops					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)	Modification Number / Title: GC0925 / Modifications Less Than \$5.0M

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 7 of 8: M192 MWO Kits

Manufacturer Information

Manufacturer Name: Capco, Inc.	Manufacturer Location: Grand Junction, CO
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jul 2017	Mar 2018	May 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Delivery Dates	Feb 2018	Dec 2018	Dec 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023

Installation Information

Method of Implementation: Installed by Troops

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	0 / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.015
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.015	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	0 / 0.015

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 9280GC0925 / Modifications Less Than \$5.0m (WOCV-WTCV)	Modification Number / Title: GC0925 / Modifications Less Than \$5.0M

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 8 of 8: M205 Tripod MWO

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Installed bt Troops

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.170	0 / 0.034	0 / 0.144	- / -	- / -	0 / 0.348
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.050	- / -	- / -	0 / 0.050
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.005	0 / 0.007	0 / 0.010	- / -	- / -	0 / 0.022
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	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	0 / 0.175	0 / 0.041	0 / 0.204	- / -	- / -	0 / 0.420

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	205
Out	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	205

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 1862GL3200 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	130.984	2.331	5.075	3.174	1.397	4.571	1.337	2.777	2.880	2.988	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	130.984	2.331	5.075	3.174	1.397	4.571	1.337	2.777	2.880	2.988	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	130.984	2.331	5.075	3.174	1.397	4.571	1.337	2.777	2.880	2.988	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>)	-	-	-	0.740	0.543	0.666	-	-	-	-	Continuing	Continuing

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 and 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 Non-Standard weapons to support the Regionally Aligned Forces (RAF) as well as world class Olympic Grade marksmanship weapons and accessories to support the Army Marksmanship Unit (AMU) and Army National Guard to include Biathlon Teams to maintain and procure the specialized target rifles, pistols and accessories: Air Rifles, 22 caliber Pistols and Rifles, Shooting glasses and scopes, Free Pistols, Shot Guns and bolt action rifles.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.331	5.075	3.174	1.397	4.571	1.337	2.777	2.880	2.988
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.331	5.075	3.174	1.397	4.571	1.337	2.777	2.880	2.988

Justification:

FY 2019 Base procurement dollars in the amount of \$3.174 million supports the Active Army by providing funding for M150 and M68 optics. The base funding also supports the Army Marksmanship Unit (AMU) and National Guard Biathlon Teams. 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. Base 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. Starting in FY2019 the Army will procure Biathlon Rifles for the Army National Guard Biathlon Teams.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 1862GL3200 / Items Less Than \$5.0m (WOCV-WTCV)
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>The FY2019 Overseas Contingency Operations (OCO) dollars in the amount of \$1.397 million supports COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Funding will support the procurement of M150 and M68 optics.</p> <p>New Starts : Biathlon Rifles will be procured for the Army National Guard Biathlon Teams. Regionally Aligned Forces (RAF) weapons will also be procured as Non-Standard Weapons.</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: PB 2019 Army **Date:** February 2018

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: 3270GC0050 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	327.483	-	0.992	3.284	-	3.284	3.346	3.440	3.534	3.600	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	327.483	-	0.992	3.284	-	3.284	3.346	3.440	3.534	3.600	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	327.483	-	0.992	3.284	-	3.284	3.346	3.440	3.534	3.600	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.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.992	3.284	-	3.284	3.346	3.440	3.534
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.992	3.284	-	3.284	3.346	3.440	3.534

Justification:

FY 2019 Base procurement dollars in the amount of \$3.284M 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. At WSTC, provides badly needed upgrades to Directed Energy, High Power Electromagnetic Pulse and Lightning effects test simulators to provide a realistic threat

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 3270GC0050 / Production Base Support (WOCV-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		
<p>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. At YTC, provides funding for the Material Analysis Laboratory to upgrade analytical laboratory analyzers, laboratory equipment, computing equipment, and software. This will permit the laboratory to retain the capabilities required to support testing of advanced tactical vehicles and weapon systems.</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: PB 2019 Army **Date:** February 2018

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: 4010GC0076 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	111.698	3.155	1.573	1.640	-	1.640	1.673	1.706	1.738	1.738	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	111.698	3.155	1.573	1.640	-	1.640	1.673	1.706	1.738	1.738	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	111.698	3.155	1.573	1.640	-	1.640	1.673	1.706	1.738	1.738	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 in the Fiscal Year 1990 National Defense Authorization Act. 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 loadbearing 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.155	1.573	1.640	-	1.640	1.673	1.706	1.738	1.738
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.155	1.573	1.640	-	1.640	1.673	1.706	1.738	1.738

Justification:

FY2019 Base procurement dollars in the amount of \$1.640 million support the procurement of approved COTS, GOTS and NDI 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."