

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2020 Army **Date:** March 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	369.323	13.478	5.704	6.269	-	6.269	2.011	-	-	-	-	396.785
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	369.323	13.478	5.704	6.269	-	6.269	2.011	-	-	-	-	396.785
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	369.323	13.478	5.704	6.269	-	6.269	2.011	-	-	-	-	396.785

(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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.008	2.912	3.212	-	3.212	1.120	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.470	2.792	3.057	-	3.057	0.891	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.478	5.704	6.269	-	6.269	2.011	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2020 Army **Date:** March 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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		- / 369.323	- / 13.478	- / 5.704	- / 6.269	- / -	- / 6.269
P-40	Total Gross/Weapon System Cost				- / 369.323	- / 13.478	- / 5.704	- / 6.269	- / -	- / 6.269

Exhibits Schedule					FY 2021	FY 2022	FY 2023	FY 2024	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		- / 2.011	- / -	- / -	- / -	- / -	- / 396.785
P-40	Total Gross/Weapon System Cost				- / 2.011	- / -	- / -	- / -	- / -	- / 396.785

*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 2020 Base procurement dollars in the amount of \$6.269 million supports:

- Retrofit and installation of previously purchased hardware and software modifications. Retrofit teams will update the hardware on the recoil system and firing platform to the new configurations which enhances the durability of the howitzer and addresses deficiencies in the legacy systems. Retrofit teams will also update the Digital Fire Control System (DFCS) software to the latest version which allows for more accurate and timely on-platform diagnostics. The new hardware and software will lead to higher levels of readiness.
- Modification to DFCS software will include the Resiliency and Software Assurance Modification (RSAM) which is an update to the Global Positioning System (GPS) to provide a more robust capability to receive accurate signal and guard against spoofing. Modification to DFCS hardware will include replacement radio integration hardware (brackets and mounts). The radio currently in use in the DFCS is approaching obsolescence due to an inability to support new encrypted wave form. The replacement radio will ensure continued ability to interface with the Fire Direction Center and receive accurate fire missions.
- Program management supports: Lifecycle management, coordination & synchronization of field artillery solutions, technical oversight of projects, and business management functions.

"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 2020 Army		Date: March 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	369.323	13.478	5.704	6.269	-	6.269	2.011	-	-	-	-	396.785
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	369.323	13.478	5.704	6.269	-	6.269	2.011	-	-	-	-	396.785
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	369.323	13.478	5.704	6.269	-	6.269	2.011	-	-	-	-	396.785

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

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

Description:

Modifications to M119A2 Howitzer.

Mod 1 (Digitization): Procurement of the Digital Fire Control System 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, Titanium Firing Platform, Digital Fire Control System components, 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.008	2.912	3.212	-	3.212	1.120	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.470	2.792	3.057	-	3.057	0.891	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2020 Army	Date: March 2019
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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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
Secondary Distribution	Total Obligation Authority	13.478	5.704	6.269	-	6.269	2.011	-	-	-

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Exhibit P-3a, Individual Modification: PB 2020 Army										Date: March 2019			
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	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	- / 9.592	- / 3.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 13.470
Subtotal: Non-Recurring	- / 9.592	- / 3.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.470
Subtotal: Training Devices (TADSS)	- / 9.592	- / 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 2020 Army											Date: March 2019	
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	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												
Spades	- / 2.335	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.335
Fire Control Computer Thumbsticks	- / 1.658	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.658
Titanium Firing Platforms	502 / 24.769	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	502 / 24.769
Fire Control Computer Cover	- / 1.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.443
Subtotal: Non-Recurring	502 / 30.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 30.205
Subtotal: Durability Modification												
	502 / 30.205	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	502 / 30.205
Modification Item 6 of 9: Retrofit and Composite Fielding Activities												
A Kits												
Recurring												
Retrofit and Composite Fielding Activiti	- / 174.266	- / 9.600	- / 2.171	- / 1.684	- / -	- / 1.684	- / 0.822	- / -	- / -	- / -	- / 0.000	- / 88.543
Subtotal: Recurring	- / 174.266	- / 9.600	- / 2.171	- / 1.684	- / -	- / 1.684	- / 0.822	- / -	- / -	- / -	- / -	- / 88.543
Subtotal: Retrofit and Composite Fielding Activities	- / 174.266	- / 9.600	- / 2.171	- / 1.684	- / -	- / 1.684	- / 0.822	- / -	- / -	- / -	- / -	- / 88.543
Modification Item 7 of 9: Program Management												
A Kits												
Recurring												
Program Management	- / -	- / -	- / 1.003	- / 1.122	- / -	- / 1.122	- / 1.189	- / -	- / -	- / -	- / 0.000	- / 3.314
Subtotal: Recurring	- / -	- / -	- / 1.003	- / 1.122	- / -	- / 1.122	- / 1.189	- / -	- / -	- / -	- / -	- / 3.314
Subtotal: Program Management	- / -	- / -	- / 1.003	- / 1.122	- / -	- / 1.122	- / 1.189	- / -	- / -	- / -	- / -	- / 3.314
Modification Item 8 of 9: Software, Cyber Security												
A Kits												
Non-Recurring												
Blast Over Pressure Mitigation Software	- / 13.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 13.778
RSAM	- / -	- / -	- / -	- / 0.683	- / -	- / 0.683	- / -	- / -	- / -	- / -	- / 0.000	- / 0.683
Subtotal: Non-Recurring	- / 13.778	- / -	- / -	- / 0.683	- / -	- / 0.683	- / -	- / -	- / -	- / -	- / -	- / 14.461
Subtotal: Software, Cyber Security	- / 13.778	- / -	- / -	- / 0.683	- / -	- / 0.683	- / -	- / -	- / -	- / -	- / -	- / 14.461
Modification Item 9 of 9: Digital Fire Control Tech Refresh												
A Kits												
Non-Recurring												
Software Defined Radio	- / -	- / -	- / 2.530	- / 2.780	- / -	- / 2.780	- / -	- / -	- / -	- / -	- / 0.000	- / 15.310

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Exhibit P-3a, Individual Modification: PB 2020 Army **Date:** March 2019

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:**

Models of Systems Affected: M119A2/A3 Howitzer **Modification Type:** Increase Performance **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	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: Non-Recurring</i>	- / -	- / -	- / 2.530	- / 2.780	- / -	- / 2.780	- / -	- / -	- / -	- / -	- / -	- / 5.310
<i>Subtotal: Digital Fire Control Tech Refresh</i>	- / -	- / -	- / 2.530	- / 2.780	- / -	- / 2.780	- / -	- / -	- / -	- / -	- / -	- / 5.310
<i>Subtotal: Procurement, All Modification Items</i>	2,008 / 369.323	- / 13.478	- / 5.704	- / 6.269	- / -	- / 6.269	- / 2.011	- / -	- / -	- / -	- / -	2,008 / 396.785
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	369.323	13.478	5.704	6.269	-	6.269	2.011	-	-	-	-	396.785

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Exhibit P-3a, Individual Modification: PB 2020 Army						Date: March 2019	
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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2020 Army					Date: March 2019		
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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2020 Army					Date: March 2019		
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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Contract Dates	Jun 2017						
Delivery Dates	Jul 2017						
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2020 Army					Date: March 2019		
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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2020 Army						Date: March 2019	
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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2020 Army					Date: March 2019		
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: Loyal Source Government Services				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 2			
Dates	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Contract Dates	Jan 2018	Jan 2019	Jan 2020	Jan 2021			
Delivery Dates	Mar 2018	Mar 2019	Mar 2020	Mar 2021			
Installation Information							
Method of Implementation (Organic): Contractor and Organic					Installation Quantity: 502		

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Exhibit P-3a, Individual Modification: PB 2020 Army					Date: March 2019		
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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
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 2020 Army					Date: March 2019		
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): 5				Production Leadtime (in Months):			
Dates	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Contract Dates			Mar 2020				
Delivery Dates			Mar 2020				
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2020 Army						Date: March 2019	
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): 1				Production Leadtime (in Months): 1			
Dates	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Contract Dates		Nov 2018	Nov 2019				
Delivery Dates		Dec 2018	Dec 2019				
Installation Information							
Method of Implementation (Organic): Organic						Installation Quantity: 0	