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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	60.827	102.201	48.097	0.000	48.097	17.033	0.000	0.000	0.000	0.000	228.158
EV8: Mobile Protected Firepower	-	60.827	102.201	48.097	-	48.097	17.033	-	-	-	0.000	228.158

A. Mission Description and Budget Item Justification

Infantry Brigades lack the mobile, protected firepower capability necessary to defeat enemy prepared positions, destroy enemy armored vehicles, close with the enemy through fire and maneuver, and ensure freedom of maneuver and action in close contact with the enemy. The M10 Booker (formerly, Mobile Protected Firepower (MPF)) will provide the protected, long range, precision direct-fire capability to ensure freedom of movement during offensive operations and defeat attacking enemy during defensive operations.

The Armored Systems Modernization - Engineering Development program element is directly aligned with the Next Generation Combat Vehicle (NGCV) Army Modernization Priority.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	63.131	102.201	65.249	-	65.249
Current President's Budget	60.827	102.201	48.097	-	48.097
Total Adjustments	-2.304	0.000	-17.152	-	-17.152
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.304	-			
• Adjustments to Budget Years	-	-	-17.152	-	-17.152

Change Summary Explanation

Decrease in FY 2025 due to shifting development of a portion of Booker training devices from FY 2025 to FY 2026.

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604645A / <i>Armored Systems Modernization (ASM) - Eng Dev</i>				Project (Number/Name) EV8 / <i>Mobile Protected Firepower</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EV8: <i>Mobile Protected Firepower</i>	-	60.827	102.201	48.097	-	48.097	17.033	-	-	-	0.000	228.158
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Infantry Brigades lack the mobile, protected firepower capability necessary to defeat enemy prepared positions, destroy enemy armored vehicles, close with the enemy through fire and maneuver, and ensure freedom of maneuver and action in close contact with the enemy. The M10 Booker (formerly, Mobile Protected Firepower (MPF)) will provide the protected, long range, precision direct-fire capability to ensure freedom of movement during offensive operations and defeat attacking enemy during defensive operations.

This program is directly aligned with the Next Generation Combat Vehicle (NGCV) Army Modernization Priority.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Product Development - LRIP Phase Logistics Products	11.330	11.104	3.459
Description: M10 Booker Low Rate Initial Production (LRIP) phase development activities for logistics products include Technical Manual (TM) and Training Support Package (TSP) updates, verification and demonstration of supportability tasks, evaluation of incidents during performance testing for supportability impacts, continued development of National/Depot Maintenance Work Requirements (NMWR/DMWR), continued execution of Level of Repair Analyses (LORA) and Source of Repair Analyses (SORA), the provisioning of spare parts, supportability analysis of operator and maintenance tasks, and management of the Integrated Logistics Support (ILS) program.			
FY 2024 Plans: FY 2024 activities include execution of the Logistics Demonstration (Log Demo) to evaluate the adequacy of the product support package, continued LORA to determine whether vehicle parts will be replaced, repaired, or discarded should they malfunction, and NMWR/DMWR development to enable depot level sustainment of the vehicle and subsystems once MPF vehicles are fielded. Additionally, Full Material Release procedures and verification of Operator, Field Maintenance, BDAR manual development will be initiated, and New Equipment Training in support of the Initial Operational Test & Evaluation (IOT&E) will be conducted.			
FY 2025 Plans: FY 2025 activities complete Material Release procedures such as the LORA, NMWR/ DMWR work instructions, verification of supportability tasks, and the Training Support Package update.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Decrease is due to completion of logistics development activities.				
<p>Title: Product Development - LRIP Phase Contractor Technical Support to Government Test</p> <p>Description: M10 Booker Low Rate Initial Production (LRIP) phase development activities for Contractor Technical Support to Test include purchase of the spare parts for LRIP phase testing, root cause analysis and the development of corrective actions on test incidents, training of vehicle operators at U.S. Government test sites, initiation of vehicle lethality, survivability, and weight reduction integration efforts, and integration of system design changes informed by user feedback. Efforts also include Systems Technical Support (STS) in the form of test configuration updates to M10 Booker vehicle subsystems and field service representatives at U.S. Government test sites to perform M10 Booker vehicle maintenance.</p> <p>FY 2024 Plans: FY 2024 activities include contractor technical support and systems technical support to PQT, Full Up System Level (FUSL) Live Fire Testing, and Corrosion testing, initiation of support to Initial Operational Test & Evaluation (IOT&E), IOT&E material management, IOT&E technical support, and continued root cause and corrective action analysis of test incidents. Activities also include initiation of survivability, lethality, mobility, and weight reduction integration efforts, battlefield and target awareness improvements, vehicle subsystem updates leveraging commonality with existing Army systems, and integration of system design changes informed by user feedback.</p> <p>FY 2025 Plans: FY 2025 activities include contractor technical support and systems technical support to the conclusion of Production Qualification Testing (PQT), FUSL, and IOT&E. FY 2025 activities also consist of the refurbishment of up to 22 M10 Booker test vehicles to a fully mission capable standard prior to fielding to Army units, continued root cause and corrective action analysis of test incidents, requirements development for survivability, lethality, mobility, and weight reduction integration efforts, requirements development of battlefield and target awareness improvements, requirements development of vehicle subsystem updates leveraging commonality with existing Army systems, and integration of system design changes informed by user feedback.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease is due to completed acquisition of long lead spare parts supporting M10 Booker IOT&E and PQT in FY 2024.</p>		8.265	18.396	18.185
<p>Title: Prototype Upgrade to LRIP Configuration</p> <p>Description: After a successful Milestone C, eight (8) prototype vehicles will be updated to the initial LRIP configuration to support LRIP phase survivability testing, logistics products development, and implementation of design changes driven by Production Qualification Testing (PQT) and Initial Operational Test and Evaluation (IOT&E). Upgrading M10 Booker prototypes to LRIP configuration will result in substantial cost avoidance compared with producing additional LRIP vehicles to support test requirements.</p>		24.278	8.483	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: Labor and material supporting final assembly, test, checkout, and acceptance of eight (8) MPF Prototypes upgraded to the initial LRIP configuration for use in survivability, performance, and reliability testing, logistics products development, and to aid implementation of design changes driven by PQT and IOT&E.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease is due to deliveries of upgraded prototypes occurring in FY 2024.</p>			
<p>Title: Government Test and Evaluation (Performance Testing)</p> <p>Description: During the Rapid Prototyping phase, the Government executed performance testing on sixteen (16) prototypes (eight per contractor) and four BH&T assets (two per contractor). FY 2021 and FY 2022 performance testing during the Rapid Prototyping phase included Ballistic Hull & Turret (BH&T) survivability testing and Pre-Production Testing (PPT), which consisted of vehicle-level lethality, Reliability, Availability, and Maintainability (RAM), and electromagnetic compatibility and interference testing. PPT also contained an initial cybersecurity evaluation.</p> <p>BH&T testing provided Force Protection and vehicle-level survivability data while PPT provided vehicle-level automotive, lethality, and RAM performance data. The results of Rapid Prototyping performance testing has informed the LRIP down select, which occurred on 24 June 2022.</p> <p>During the LRIP phase, the Government will execute performance testing on twelve (12) vehicles. Performance testing during the LRIP phase will include survivability testing and Production Qualification Testing (PQT), which consists of vehicle-level lethality, RAM, electromagnetic compatibility and interference testing, environmental performance testing, and cybersecurity testing.</p> <p>FY 2024 Plans: Activities include execution of the PQT and Full Up System Level (FUSL) Live Fire testing to inform the FY 2025 Full Rate Production (FRP) decision. PQT evaluating system reliability, transportability, and automotive performance will be assessed at the Yuma Test Center (YTC), Aberdeen Test Center (ATC), and the Cold Regions Test Center (CRTC). PQT environmental performance testing will be assessed at YTC and CRTC. PQT system safety will be evaluated at White Sands Missile Range (WSMR), YTC, ATC, and CRTC. PQT electromagnetic environmental effects (E3) testing will occur at WSMR. Fire control, lethality, and cybersecurity PQT will occur at ATC. Corrosion testing will also be completed at ATC. PQT assessing Army Interoperability Certification requirements will occur at Fort Hood, Texas. The FUSL Live Fire test will be performed at ATC and will assess ballistic resiliency and platform survivability. Additionally, ballistic survivability models and simulations will be updated with results from MPF FUSL Live Fire testing.</p> <p>FY 2025 Plans:</p>	8.091	31.847	5.995

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Activities include conclusion of PQT at YTC, ATC, WSMR, and CRTC and conclusion of Full Up System Level (FUSL) Live Fire testing to inform the FY 2025 Full Rate Production (FRP) decision. Other concluding activities include final test scoring of RAM data, PQT and FUSL final report authoring, and conclusion of Ballistics M&S activities. These activities will support the M10 Booker FRP decision.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease is due to the conclusion of test activities.</p>				
<p>Title: Government Test and Evaluation (Operational Testing)</p> <p>Description: During LRIP phase, the Government will execute a thirteen (13) vehicle Company-Level Initial Operational Test and Evaluation (IOT&E). The IOT&E is planned to begin in FY 2024 and conclude in FY 2025.</p> <p>FY 2024 Plans: Activities include site preparation, test planning, ATEC support to initiate execution of the MPF IOT&E, spare parts support to MPF, opposing force (OPFOR), tactical support, and other IOT&E participant vehicles, and test instrumentation of IOT&E participant vehicles. The IOT&E will evaluate the mission effectiveness, suitability, cybersecurity, and survivability of a unit equipped with MPF vehicles in an operational environment. The IOT&E will be conducted under realistic operational conditions using Army units executing decisive action operations in accordance with U.S. Army doctrine against a representative opposing force. Additionally, Soldier participants will undergo field maintenance and operator training in preparation for the IOT&E. The IOT&E will serve as a key data source for the Full Rate Production (FRP) decision.</p> <p>FY 2025 Plans: Activities include conduct and conclusion of the M10 Booker IOT&E at Fort Liberty and Fort Stewart, transportation of tactical support and OPFOR vehicles to and from test events, parts repair support to M10 Booker and tactical support vehicles, and authoring of the final report concerning the operational effectiveness of the M10 Booker. The IOT&E will serve as a key data source for the Full Rate Production (FRP) decision.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease is due to the conclusion of test activities.</p>		-	10.814	4.727
<p>Title: Training Aids and Devices Development</p> <p>Description: Development of aids and devices to facilitate institutional training for M10 Booker operators and maintainers. Training aids and devices development will include activities for an M10 Booker Advanced Gunnery Training System (AGTS) and an M10 Booker Family of Maintenance Trainers (FMT) which include Diagnostic Troubleshooting Trainers (DTT) and turret Hands on Trainers (HOT). M10 Booker training aids and devices will be interoperable/compatible with the Army's current live Tactical</p>		2.970	15.918	11.048

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Engagement Simulation (TES) systems, instrumentation systems, Common Training Instrumentation Architecture (CTIA), Live, Virtual Constructive-Integrated Architecture (LVC-IA) training enablers, and the future Synthetic Training Environment (STE).</p> <p>FY 2024 Plans: FY 2024 activities include contract awards for HOT, DTT, and AGTS development. HOT development will initiate the design of an MPF production representative turret and subsystem structure to enable the maintenance training of the MPF turret and its subsystems. DTT development will enable computer-based simulations of MPF repair tasks in a classroom setting using a three-dimensional (3D) virtual environment. AGTS development will include the build of prototype gunnery training devices which will train Soldiers on Gate-to-Live-Fire (GTLF) qualification and on the Crew Training Program which are exercises designed to train crew coordination supporting the execution of precision gunnery tasks.</p> <p>FY 2025 Plans: FY 2025 activities include continued development of the M10 Booker FMT and M10 Booker AGTS. M10 Booker FMT development will continue the requirements development and design of a Booker production representative turret and subsystem structure to enable the maintenance training of the Booker turret and its subsystems. Development of the FMT systems for the Booker turret will, to the greatest extent possible, leverage commonality with other fielded Army turret maintenance systems. M10 Booker FMT development of computer-based simulation systems teaching Booker repair tasks in a classroom setting using a three-dimensional (3D) virtual environment will conclude and allow for the procurement and fielding of these systems to Army training institutions. M10 Booker AGTS prototype build will continue, and design development will conclude to allow for the procurement of gunnery training systems to be fielded at M10 Booker unit locations and schools.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease is due to the finalization of designs for the FMT computer-based maintenance training simulation systems and the M10 Booker AGTS.</p>				
<p>Title: Government Engineering and Project Management</p> <p>Description: Government program management and system engineering support, to include salaries, travel, training, supplies, facilities, equipment, and support contractors necessary to manage development efforts during the MPF MTA Rapid Prototyping and LRIP phases.</p> <p>FY 2024 Plans: Continue engineering, logistics, product assurance and test, financial management, and operations support for MPF LRIP development activities from November 2023 through October 2024. Includes salaries, training, travel, supplies, facilities, and equipment to manage MPF test and evaluation and logistics products development efforts.</p> <p>FY 2025 Plans:</p>		5.893	5.639	4.683

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Continue engineering, logistics, product assurance and test, financial management, and operations support for M10 Booker LRIP development activities from November 2024 through October 2025. Includes salaries, training, travel, supplies, facilities, and equipment to manage M10 Booker test and evaluation and logistics products development efforts.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Decrease is due to the transition from RDTE development efforts to a production environment.			
Accomplishments/Planned Programs Subtotals	60.827	102.201	48.097

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• G80820: <i>M10 BOOKER</i>	349.720	394.635	460.637	-	460.637	502.011	487.611	490.466	500.170	Continuing	Continuing

Remarks
Standard Serial Number (SSN) G80820 resources production of the M10 Booker. FY 2022 - FY 2024 resourcing supports M10 Booker Low Rate Initial Production (LRIP). Resourcing in FY 2025 and beyond supports M10 Booker Full Rate Production (FRP).

D. Acquisition Strategy
The Mobile Protected Firepower (MPF) RFP was issued on 21 November 2017 as a full and open, best value competitive action. On 25 September 2018, the Army Acquisition Executive (AAE) approved the execution of MPF Rapid Prototyping activities under Section 804 of the 2016 National Defense Authorization Act (NDAA) (Public Law 114-92), Middle Tier Acquisition (Rapid Prototyping). The competitive selection process for MPF Rapid Prototyping contracts included the evaluation of written proposals and optional bid samples to provide additional substantiating data for Source Selection Evaluation. On 17 December 2018, two MPF Rapid Prototyping contracts were awarded, one to BAE Systems and the other to General Dynamics Land Systems (GDLS). On 24 June 2022 the MPF program obtained AAE Milestone C approval, and an LRIP phase contract was awarded to GDLS on 28 June 2022 for continued Logistics Products development, continued Contractor Technical Support to Test, and for the first production order of MPF vehicles. On 10 June 2023, the Army redesignated MPF as the M10 Booker. An M10 Booker Full Rate Production (FRP) decision is targeted for 3rd Quarter, FY 2025.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev				EV8 / Mobile Protected Firepower							
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Engineering and Project Management	MIPR	Various : Warren, MI; Picatinny, NJ	-	5.893	Nov 2022	5.639	Nov 2023	4.683	Nov 2024	-		4.683	1.565	17.780	-
Government Engineering and Project Management (Middle Tier Acquisition Rapid Prototyping Phase)	MIPR	Various : Warren, MI; Picatinny, NJ	53.654	-		-		-		-		-	0.000	53.654	-
Subtotal			53.654	5.893		5.639		4.683		-		4.683	1.565	71.434	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development - LRIP Phase - LRIP Logistics Products	C/FFP	General Dynamics Land Systems (GDLS) : Sterling Heights, MI	-	11.330	Oct 2022	11.104	Oct 2023	3.459	Oct 2024	-		3.459	0.000	25.893	46.429
Product Development - LRIP Phase - LRIP Contractor Technical Support to Government Test	C/FFP	General Dynamics Land Systems (GDLS) : Sterling Heights, MI	-	4.981	Oct 2022	9.837	Oct 2023	10.245	Oct 2024	-		10.245	2.191	27.254	71.472
System Technical Support to Government Testing	SS/CPFF	General Dynamics Land Systems (GDLS) : Sterling Heights, MI	-	3.284	Oct 2022	8.559	Oct 2023	7.940	Nov 2024	-		7.940	0.000	19.783	-
Prototype Upgrade to LRIP Configuration	C/FFP	General Dynamics Land Systems (GDLS) : Sterling Heights, MI	-	24.278	Oct 2022	8.483	Oct 2023	-		-		-	0.000	32.761	46.966
Product Development (Middle Tier Acquisition Rapid Prototyping Phase)	C/FFP	General Dynamics Land Systems (GDLS); BAE Systems : Sterling Heights, MI	802.303	-		-		-		-		-	0.000	802.303	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev	Project (Number/Name) EV8 / Mobile Protected Firepower
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			802.303	43.873		37.983		21.644		-		21.644	2.191	907.994	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Training Aids and Devices Development	C/CPFF	General Dynamics Land Systems (GDLS) : Sterling Heights, MI	3.697	2.970	Nov 2022	15.918	Nov 2023	11.048	Jan 2025	-		11.048	13.277	46.910	-
Support Costs (Middle Tier Acquisition Rapid Prototyping Phase)	RO	Various : Warren, MI; Picatinny, NJ	29.771	-		-		-		-		-	0.000	29.771	-
Subtotal			33.468	2.970		15.918		11.048		-		11.048	13.277	76.681	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Production Qualification Testing (PQT) at Aberdeen Test Center (ATC) & Army Interoperability Testing	PO	Aberdeen Test Center (ATC); Central Technical Support Facility (CTSF) : Aberdeen, MD; Fort Hood, TX	-	1.705	Jan 2023	8.424	Nov 2023	0.651	Nov 2024	-		0.651	0.000	10.780	-
PQT at Yuma Test Center (YTC)	PO	Yuma Test Center (YTC) : Yuma, AZ	-	0.129	Jan 2023	5.666	Feb 2024	0.549	Nov 2024	-		0.549	0.000	6.344	-
PQT at White Sand Missile Range (WSMR)	PO	White Sands Missile Range (WSMR) : White Sands Missile Range, NM	-	0.096	Jan 2023	1.928	Apr 2024	0.228	Nov 2024	-		0.228	0.000	2.252	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev				EV8 / Mobile Protected Firepower							
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PQT at Cold Regions Test Center (CRTC)	PO	Cold Regions Test Center : Fort Greely, AK	-	-		3.009	Sep 2024	0.768	Nov 2024	-		0.768	0.000	3.777	-
Survivability, Lethality, and Full Up System Level (FUSL) Live Fire Testing	PO	Aberdeen Test Center (ATC) : Aberdeen, MD	-	5.956	Jan 2023	10.709	Dec 2023	3.574	Nov 2024	-		3.574	0.000	20.239	-
Data Analysis and Evaluation Support	Various	Combat Capability Development Command - Data Analysis Center (CCDC-DAC), Army Evaluation Center (AEC), Combined Arms Support Command (CASCOM) : Various	-	0.205	Oct 2022	2.111	Nov 2023	0.225	Nov 2024	-		0.225	0.000	2.541	-
Initial Operational Test & Evaluation (IOT&E)	PO	Operational Test Center (OTC) : Fort Hood, TX	-	-		10.814	Jun 2024	4.727	Nov 2024	-		4.727	0.000	15.541	-
Test and Evaluation (Middle Tier Acquisition Rapid Prototyping Phase)	PO	Aberdeen Test Center (ATC); Yuma Test Center (YTC) : Aberdeen, MD; Yuma, AZ	36.712	-		-		-		-		-	0.000	36.712	-
Subtotal			36.712	8.091		42.661		10.722		-		10.722	0.000	98.186	N/A
Project Cost Totals			926.137	60.827		102.201		48.097		-		48.097	17.033	1,154.295	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev	Project (Number/Name) EV8 / Mobile Protected Firepower

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Full Rate Production (FRP) Decision									4 FRP Decision																				
Material Release (MR)									5 Material Release																				
First Unit Equipped (FUE)									6 FUE																				
TM Development Update																													
Logistics Demonstration (Log Demo)																													
TM Verification																													
Level of Repair Analysis (LORA)																													
Source of Repair Analysis (SORA)																													
Training Support Package (TSP) Update																													
National/Depot Maintenance Work Instruction (NMWR/DMWR)/B																													
Spares Provisioning																													
Prototype Vehicle Updates to LRIP Configurations (Qty 8)																													
Corrosion Testing																													

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
CDE/SL/AFES Testing	[Redacted]																											
	CDE/SL/AFES Testing																											
Training Devices Requirements Refinement Performance Spe...	[Redacted]																											
	Train Devices Req and Perf Spec Development																											
Vehicle Data Interface Development for Training Devices	[Redacted]																											
	Vehicle Data Interface Development for Training Devices																											
M10 Booker Gunnery Training System (GTS) Development and...	[Redacted]				[Redacted]																							
	[Redacted]				M10 Booker GTS Development & Prototype Build																							
Family of Maintenance Trainers (FMT) Development	[Redacted]				[Redacted]				[Redacted]																			
	[Redacted]				FMT Development																							
LRIP Option #1 Deliveries	[Redacted]				[Redacted]																							
	[Redacted]				LRIP Option #1 Deliveries																							
Production Qualification Testing (PQT) at Aberdeen Test ...	[Redacted]				[Redacted]																							
	[Redacted]				PQT at ATC																							
Production Qualification Testing (PQT) at Yuma Test Cent...	[Redacted]				[Redacted]																							
	[Redacted]				PQT at YTC																							
Production Qualification Testing (PQT) at White Sands Mi...	[Redacted]				[Redacted]																							
	[Redacted]				PQT at WSMR																							
Production Qualification Testing (PQT) at Cold Regions T...	[Redacted]				[Redacted]																							
	[Redacted]				PQT at CRTC																							
Full Up System Level (FUSL) Live Fire Testing at Aberdee...	[Redacted]				[Redacted]																							
	[Redacted]				FUSL LFT at ATC																							
Army Interoperability Testing	[Redacted]				[Redacted]																							
	[Redacted]				Army Interoperability Testing																							
Initial Operational Test and Evaluation (IOT&E)	[Redacted]				[Redacted]																							
	[Redacted]				IOT&E																							

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev	Project (Number/Name) EV8 / Mobile Protected Firepower	

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029											
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
Test Vehicle Refurbishment													Test Vehicle Refurbishment																							
LRIP Option #2 Award													1 LRIP Option #2 Award																							
LRIP Option #2 Deliveries																					LRIP Option #2 Deliveries															
LRIP Option #3 Award																	2 LRIP Option #3 Award																			
LRIP Option #3 Deliveries																									LRIP Option #3 Deliveries											
FRP Lot #1 Award																					3 FRP Lot #1 Award															
FRP Lot #1 Deliveries																													FRP Lot #1 Deliveries							

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev	Project (Number/Name) EV8 / Mobile Protected Firepower

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Section 804 MTA Rapid Prototyping Designation	4	2018	4	2018
Milestone C (MS C)	3	2022	3	2022
Full Rate Production (FRP) Decision	3	2025	3	2025
Material Release (MR)	4	2025	4	2025
First Unit Equipped (FUE)	4	2025	4	2025
Request for Proposal (RFP) Release	1	2018	1	2018
Risk Reduction of Large Caliber Weapon System	3	2017	3	2022
Middle Tier Acquisition (MTA) Source Selection Evaluation Board (SSEB)	2	2018	1	2019
Rapid Prototyping Contract Awards	1	2019	1	2019
Mobile Protected Firepower (MPF) Rapid Prototyping Phase	1	2019	3	2022
Design Maturity Review (DMR)	3	2019	3	2019
Ballistic Hull & Turret (BH&T) Deliveries (4 BH&Ts)	1	2021	2	2021
BH&T Test Readiness Review (TRR)	1	2021	1	2021
BH&T Test	2	2021	4	2021
Prototype Deliveries (24 Prototypes)	3	2020	2	2022
Pre-Production Test (PPT)	4	2020	2	2022
Soldier Vehicle Assessment (SVA) Readiness Review (RR)	1	2021	1	2021
SVA	2	2021	4	2021
Limited User Training (LUT)	4	2021	1	2022
Training Support Package (TSP) Development	2	2019	3	2022
Maintenance Task Analysis (MTA) and Level Of Repair Analysis (LORA)	2	2019	3	2022
Technical Manual (TM) Development	2	2019	3	2022

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604645A / <i>Armored Systems Modernization (ASM) - Eng Dev</i>	Project (Number/Name) EV8 / <i>Mobile Protected Firepower</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
TM Validation	3	2021	3	2022
TM Development Update	1	2023	4	2024
Logistics Demonstration (Log Demo)	3	2024	4	2024
TM Verification	4	2024	4	2025
Level of Repair Analysis (LORA)	3	2022	2	2025
Source of Repair Analysis (SORA)	3	2022	3	2023
Training Support Package (TSP) Update	3	2022	3	2025
Nationa/Depot Maintenance Work Instruction (NMWR/DMWR)/Battle Damage Assessment and Repair (BDAR) Development	3	2022	3	2025
Spares Provisioning	3	2022	4	2023
Prototype Vehicle Updates to LRIP Configurations (Qty 8)	3	2022	2	2024
Corrosion Testing	2	2023	2	2024
CDE/SL/AFES Testing	4	2022	4	2023
Supportability Assessment (SA)	1	2022	1	2022
Training Devices Requirements Refinement Performance Spec Development	2	2019	4	2023
Vehicle Data Interface Development for Training Devices	3	2023	3	2024
M10 Booker Gunnery Training System (GTS) Development and Prototype Build	2	2024	1	2026
Family of Maintenance Trainers (FMT) Development	1	2024	4	2026
Low Rate Initial Production (LRIP) Option #1 Award	3	2022	3	2022
LRIP Option #1 Deliveries	2	2024	1	2025
Production Qualification Testing (PQT) at Aberdeen Test Center (ATC)	2	2024	2	2025
Production Qualification Testing (PQT) at Yuma Test Center (YTC)	3	2024	2	2025
Production Qualification Testing (PQT) at White Sands Missile Range (WSMR)	4	2024	2	2025
Production Qualification Testing (PQT) at Cold Regions Test Center (CRTC)	1	2025	2	2025
Full Up System Level (FUSL) Live Fire Testing at Aberdeen Test Center (ATC)	2	2024	2	2025
Army Interoperability Testing	1	2025	1	2025

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev	Project (Number/Name) EV8 / Mobile Protected Firepower
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Events	Start		End	
	Quarter	Year	Quarter	Year
Initial Operational Test and Evaluation (IOT&E)	3	2024	2	2025
Test Vehicle Refurbishment	3	2025	3	2026
LRIP Option #2 Award	3	2023	3	2023
LRIP Option #2 Deliveries	1	2025	1	2026
LRIP Option #3 Award	3	2024	3	2024
LRIP Option #3 Deliveries	1	2026	4	2026
FRP Lot #1 Award	2	2025	2	2025
FRP Lot #1 Deliveries	4	2026	1	2028