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

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603645A / <i>Armored System Modernization - Adv Dev</i>
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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	-	133.300	43.026	23.235	-	23.235	23.222	23.450	23.711	23.948	0.000	293.892
<i>EV7: Combat Vehicle Prototyping</i>	-	133.300	43.026	23.235	-	23.235	23.222	23.450	23.711	23.948	0.000	293.892

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Next Generation Combat Vehicle (NGCV) Army Modernization Priority. Armored System Modernization Advanced Development provides maturation of emerging Science and Technology (S&T) and industry technologies for potential integration onto ground combat vehicles. The purpose of this Program Element's (PE) funding is to demonstrate new capabilities to meet current and future military needs and to determine integration potential across the Army portfolio of ground combat vehicles by testing and evaluating a variety of technologies.

In addition to other efforts, this funding line includes \$67.1 million to support the development of control stations that are necessary for the Army Robotic Combat Vehicle (RCV) program (CF4/CF5). The projected total cost of the RCV MTA Rapid Prototyping program is \$497.8 million (then-year dollars) RDT&E from FY 2022 to FY 2027, which includes the aforementioned \$67.1 million. The remainder of the RCV MTA Rapid Prototyping program is fully funded across the Future Years Defense Program with other funding lines (CF4/CF5)

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	135.122	43.026	23.188	-	23.188
Current President's Budget	133.300	43.026	23.235	-	23.235
Total Adjustments	-1.822	0.000	0.047	-	0.047
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.822	-			
• Adjustments to Budget Years	-	-	0.047	-	0.047

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: *EV7: Combat Vehicle Prototyping*

Congressional Add: *Program Increase - Advanced Combat Engine*

Congressional Add: *Program Increase - Abrams Modernization*

	FY 2023	FY 2024
Congressional Add: <i>Program Increase - Advanced Combat Engine</i>	13.030	-
Congressional Add: <i>Program Increase - Abrams Modernization</i>	67.200	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603645A / <i>Armored System Modernization - Adv Dev</i>
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Congressional Add Details (\$ in Millions, and Includes General Reductions)

Congressional Add: *Program Increase - Next Generation Auxiliary Power Unit*

	FY 2023	FY 2024
Congressional Add Subtotals for Project: EV7	5.000	-
Congressional Add Subtotals for Project: EV7	85.230	-
Congressional Add Totals for all Projects	85.230	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603645A / <i>Armored System Modernization - Adv Dev</i>				Project (Number/Name) EV7 / <i>Combat Vehicle Prototyping</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
<i>EV7: Combat Vehicle Prototyping</i>	-	133.300	43.026	23.235	-	23.235	23.222	23.450	23.711	23.948	0.000	293.892
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Armored System Modernization Advanced Development will continue the maturation of emerging ground combat vehicle capabilities to provide a bridge from S&T investment to application on a vehicle platform, informing requirements through User Evaluations, identification of capability gaps and reduction of integration risks. Maturing emerging technologies like those in Project Convergence will enable ground combat platforms to meet the Army's strategy of fielding key Modernization efforts.

The funding will support virtual and physical concept development, trade studies, technical and operational analyses to assess future concepts and designs. This would also include the support for survivability, lethality and other soldier defined system requirements. In addition, this funding will provide program management, expertise and a business process for the maturation and transition of emerging Science and Technology systems, system integration labs, technology demonstration efforts risk reduction, maturation, testing and assessment, and develop and integrate systems for Ground Combat Systems (GCS) platforms.

In addition to other efforts, this funding line includes \$67.1 million to support the development of control stations that are necessary for the Army Robotic Combat Vehicle (RCV) program (CF4/CF5). The projected total cost of the RCV MTA Rapid Prototyping program is \$497.8 million (then-year dollars) RDT&E from FY 2022 to FY 2027, which includes the aforementioned \$67.1 million. The remainder of the RCV MTA Rapid Prototyping program is fully funded across the Future Years Defense Program with other funding lines (CF4/CF5)

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

	FY 2023	FY 2024	FY 2025
Title: Government Engineering & Program Management	5.416	5.762	3.000
Description: This effort will support Program Management Office (PMO) support that will cover the costs of government and direct support contractor labor, travel, training, supplies, equipment and facilities to manage the experimental prototyping projects.			
FY 2024 Plans: This funding will support Government oversight and project management of planned efforts which will cover government salaries, contractor labor, travel, training, supplies, equipment and facilities costs.			
FY 2025 Plans: This funding will support Government oversight and project management of planned efforts which will cover government salaries, contractor labor, travel, training, supplies, equipment and facilities costs.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / <i>Armored System Modernization - Adv Dev</i>	Project (Number/Name) EV7 / <i>Combat Vehicle Prototyping</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
The decrease is due to reduced project management oversight requirements.				
<p>Title: Developmental Engineering</p> <p>Description: Efforts will include the continued development and maturation of advanced technology concepts for ground combat vehicles and related support equipment.</p> <p>FY 2024 Plans: This funding will further refine Advanced Combat Powertrain (ACP) maturation, which is comprised of the Advanced Combat Engine (ACE) and the Advanced Combat Transmission (ACT), to support production by FY24. A potential transition partner for this effort is the Optionally Manned Fighting Vehicle (OMFV), but could be applied to other combat vehicle platforms. Other Developmental Engineering efforts include but are not limited to MUM-T Protected Comms, Advanced Combat Vehicle Concepts, Combat Vehicle Light-weighting, Combat Optimization for Robotic Systems, Autonomy, Integration, and Reliability (CORSAIR) (formerly named Project Origin), and other combat vehicle technology advancement efforts. These advanced development efforts will support performance analysis, trade space analysis, capabilities assessments, and hardware demonstrations to support the emerging technologies to support the Army's Modernization Strategy.</p> <p>FY 2025 Plans: This funding will further refine Advanced Combat Powertrain (ACP) maturation, which is comprised of the Advanced Combat Engine (ACE) and the Advanced Combat Transmission (ACT). A potential transition partner for this effort is the Optionally Manned Fighting Vehicle (OMFV) but could be applied to other combat vehicle platforms. Other Developmental Engineering efforts include but are not limited to MUM-T Protected Comms, Advanced Combat Vehicle Concepts, Combat Vehicle Light-weighting, Combat Optimization for Robotic Systems, Autonomy, Integration, and Reliability (CORSAIR) (formerly named Project Origin), small-scale, system-of-systems demonstration and other combat vehicle technology advancement efforts. These advanced development efforts will support performance analysis, trade space analysis, capabilities assessments, and hardware demonstrations to support the emerging technologies to support the Army's Modernization Strategy. Additionally, supports the maturation of the GCS Common Infrastructure Architecture (GCIA), Ground Vehicle Architecture Integration Laboratory (GVAIL), data architecture and the continued refinement and maturation of open architecture standards.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The decrease is due to completion of multiple projects in FY24 and other activities moving to prototype builds and test and evaluation in FY25.</p>		29.978	9.977	5.697
<p>Title: Test & Evaluation</p> <p>Description: Test and Evaluation (T&E) activities include contractor and government testing of prototype vehicles and technologies as well as user evaluations. Testing will be conducted using United States Army test facilities.</p>		6.710	12.900	14.538

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / <i>Armored System Modernization - Adv Dev</i>	Project (Number/Name) EV7 / <i>Combat Vehicle Prototyping</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: T&E efforts include but are not limited to: Combat Optimization for Robotic Systems, Autonomy, Integration, and Reliability (CORSAIR) (formerly named Project Origin) soldier assessment efforts, Advanced Combat Powertrain Maturation, Combat Vehicle Light-weighting, Tank Modernization, MUM-T Protected Comms, Aided Target Recognition (AiTR), and other emerging combat vehicle technology advancements. To assist in determining future requirements while evaluating maturation level and aid in determination of bridging S&T efforts to vehicle platforms.</p> <p>FY 2025 Plans: T&E efforts include but are not limited to: Combat Optimization for Robotic Systems, Autonomy, Integration, and Reliability (CORSAIR) (formerly named Project Origin) soldier assessment efforts, Advanced Combat Powertrain Maturation, Combat Vehicle Light-weighting, Tank Modernization, MUM-T Protected Comms, Aided Target Recognition (AiTR), small-scale, system-of-system demonstrations and other emerging combat vehicle technology advancements to assist in determining future requirements while evaluating maturation level and aid in determination of bridging S&T efforts to vehicle platforms.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The increase is due to additional test activities for the Advanced Combat Vehicle Concepts efforts, and other activities.</p>				
<p>Title: Experimental Prototyping</p> <p>Description: Experimental prototyping allows for maturation of emerging S&T and industry technologies to inform requirements, identify mitigations for capability gaps and reduce technology integration and program risks for emerging technologies. The funding will support prototyping for Advanced Combat Powertrain, Advanced Combat Vehicle Concepts and Studies, Advanced Lightweight Track, Combat Optimization for Robotic Systems, Autonomy, Integration, and Reliability (CORSAIR) (formerly named Project Origin) soldier assessment efforts and Other Technology Advancements.</p> <p>FY 2024 Plans: This funding will support prototype design, builds, validation/verification, and maintenance for MUM-T Protected Comms, Combat Optimization for Robotic Systems, Autonomy, Integration, and Reliability (CORSAIR) Soldier Operational Experiment (SOE) (formerly named Project Origin), and Other Technology Advancement efforts.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The decrease is due to completion of multiple projects in FY24 and the Advanced Combat Vehicle Concepts effort, and other activities moving to test and evaluation in FY25.</p>		5.966	14.387	-
Accomplishments/Planned Programs Subtotals		48.070	43.026	23.235

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / <i>Armored System Modernization - Adv Dev</i>	Project (Number/Name) EV7 / <i>Combat Vehicle Prototyping</i>

	FY 2023	FY 2024
Congressional Add: Program Increase - Advanced Combat Engine <i>FY 2023 Accomplishments:</i> This effort improves engine subsystem designs, optimizes performance, and funds engine units for vehicle demonstration.	13.030	-
Congressional Add: Program Increase - Abrams Modernization <i>FY 2023 Accomplishments:</i> The Congressional Add reflects an increase for Abrams Modernization efforts to include, but not limited to: Unmanned Turret, Autoloader and Automated Ammunition Handling System, Hydro-Pneumatic suspension, Integration APS, and Hybrid Electric Drive.	67.200	-
Congressional Add: Program Increase - Next Generation Auxiliary Power Unit <i>FY 2023 Accomplishments:</i> The Congressional Add of \$5M reflects an increase to evaluate integration of Hydro-Pneumatic Suspension Units onto the Abrams chassis.	5.000	-
Congressional Adds Subtotals	85.230	-

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

These level of efforts provide the focused investment for the development and demonstration of technology and prototyping for future combat vehicles in the battlefield. The intent of this funding is to mature the next generation of technology which will enable demonstration of capabilities developed in the S&T portfolio to meet emerging military needs across the current Army portfolio of ground vehicles.

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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 / 4				PE 0603645A / Armored System Modernization - Adv Dev				EV7 / Combat Vehicle Prototyping							
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
Experimental Prototyping	Various	Various : Various	60.067	5.966	Jun 2023	14.387	Jun 2024	-		-		-	Continuing	Continuing	Continuing
Developmental Engineering	Various	Competing / GVSC / Various : Various	76.657	29.978	Apr 2023	9.977	Jan 2024	5.697	Jan 2025	-		5.697	0.000	122.309	-
Program Increase - Advanced Combat Engine	Various	Cummins Power Generation : Various	4.000	13.030	Apr 2023	-		-		-		-	0.000	17.030	-
Program Increase - Next Generation Auxiliary Power Unit	Various	Various : Various	-	5.000	Apr 2023	-		-		-		-	0.000	5.000	-
Program Increase - Abrams Modernization	TBD	General Dynamics / GVSC : TBD	-	67.200	Jun 2023	-		-		-		-	0.000	67.200	-
Subtotal			140.724	121.174		24.364		5.697		-		5.697	Continuing	Continuing	N/A
Support (\$ 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
Program Management	Various	PM/Program Executive Office/ GVSC : Warren, MI	63.957	5.416	Jan 2023	5.762	Jan 2024	3.000	Jan 2025	-		3.000	Continuing	Continuing	Continuing
Subtotal			63.957	5.416		5.762		3.000		-		3.000	Continuing	Continuing	N/A
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
Modeling & Simulation	MIPR	Various : Various	15.769	-		-		-		-		-	Continuing	Continuing	Continuing
Test & Evaluation	Various	SAIC / GVSC / Various : Various	59.189	6.710	Jun 2023	12.900		14.538	Jun 2025	-		14.538	Continuing	Continuing	-
Subtotal			74.958	6.710		12.900		14.538		-		14.538	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / Armored System Modernization - Adv Dev	Project (Number/Name) EV7 / Combat Vehicle Prototyping

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
MET-D Phase 2 Project Finish	1																											
<small>MET-D Phase 2 Project Finish</small>																												
XM913 Weapon Improvements and TDP Development																												
<small>XM913 Weapon Improvements and TDP Development</small>																												
XM913 Environmental Testing																												
<small>XM913 Environmental Testing</small>																												
Bradley Hybrid Electric Vehicle ATC Test																												
<small>Bradley Hybrid Electric Vehicle ATC Test</small>																												
Bradley Hybrid Electric Vehicle Transition Decision																												
<small>Bradley Hybrid Electric Vehicle Transition Decision</small>																												
Advanced Combat Vehicle Concepts and Studies																												
<small>Advanced Combat Vehicle Concepts and Studies</small>																												
Advanced Lightweight Track (ALWT) Development																												
<small>Advanced Lightweight Track (ALWT) Development</small>																												
Advanced Lightweight Track (ALWT) Validation Testing																												
<small>Advanced Lightweight Track (ALWT) Validation Testing</small>																												
SPHS Lightweighting Prototype Development																												
<small>SPHS Lightweighting Prototype Development</small>																												
SPHS Lightweighting Testing																												
<small>SPHS Lightweighting Testing</small>																												
High Voltage Power Controller (HVPC) Testing																												
<small>HVPC Testing</small>																												
High Voltage Power Controller (HVPC) 2nd Source Development																												
<small>HVPC 2nd Source Development</small>																												
High Voltage Power Controller 2nd Source Prototype Build																												
<small>HVPC 2nd Source Prototype Build</small>																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / Armored System Modernization - Adv Dev	Project (Number/Name) EV7 / Combat Vehicle Prototyping

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
High Voltage Power Controller 2nd Source Test			■																									
High Voltage Power Controller 2nd Source Transition Decision								▲																				
Advanced Combat Powertrain Production Design Mechanical ...		■	■	■																								
Advanced Combat Powertrain Refinement						■	■	■	■	■	■	■																
Advanced Combat Powertrain Design Validation Plan	■	■																										
Advanced Combat Powertrain Design CAD		■	■																									
Advanced Combat Powertrain Field Test						■	■	■	■	■	■	■																
Abrams Lightweight Running Gear Casting Prototype			■	■																								
Abrams Lightweight Running Gear Lab Prototype							■	■																				
Abrams Lightweight Running Gear Vehicle Prototype Set											■	■																
MUM-T Manned Control Vehicles (MCV) Development	■	■																										
MUM-T Manned Control Vehicles (MCV) Prototypes	■	■	■																									
MUM-T Manned Control Vehicles (MCV) Test	■	■	■	■	■	■	■	■	■	■	■	■																

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / Armored System Modernization - Adv Dev	Project (Number/Name) EV7 / Combat Vehicle Prototyping

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
MUM-T- Protected Comms (PCM) C5ISR Modular Open Suite of...																												
MUM-T - Protected Comms (PCM) CMOSS Prototypes Build																												
MUM-T - Protected Comms (PCM) CMOSS Prototypes Test																												
Stryker Energy Attenuating (EA) Seat Hardware Evaluation																												
Stryker Energy Attenuating (EA) Seat Transition Decision																												
AMERCA-M Prototype Build																												
AMERCA-M Design																												
AMERCA-M Build Complete																												
AMERCA-M Dynamometer Testing																												
AMERCA-M Test Site T&E																												
Tank Modernization Test																												
Soft Kill System Advancements - Countermeasure Development																												
Soft Kill System Advancements - CountermeasureTechniqu...																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / Armored System Modernization - Adv Dev	Project (Number/Name) EV7 / Combat Vehicle Prototyping

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
Soft Kill System Advancements - Countermeasure Transiti...	2																											
Optionally Manned Tank (OMT) Development/Design/Modeling																												
Optionally Manned Tank (OMT) Build																												
Optionally Manned Tank (OMT) Soldier Touch Point																												
Optionally Manned Tank (OMT) Experiment																												
AiTR Phase III 3GF Test & Evaluation																												
Data Architecture Library																												
Data Architecture Model																												
CORSAIR Soldier Experiments																												
Congressional ADD Abrams Modernization																												
Congressional ADD Auxiliary Power Unit																												
Vehicle Excursion 4 – PIF Prototype Design																												
Vehicle Excursion 4 – PIF Prototype Build																												

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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
Vehicle Excursion 4 – Operationally-relevant Soldier Tou...																												
Vehicle Excursion 4 – Government-owned Level II TDP																												

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

Events	Start		End	
	Quarter	Year	Quarter	Year
MET-D Phase 2 Build	1	2021	2	2021
MET-D Phase 2 Testing	4	2021	3	2022
MET-D Phase 2 Soldier Operational Evaluation (SOE)	4	2022	4	2022
MET-D Phase 2 Project Finish	1	2023	1	2023
XM913 Weapon Improvements and TDP Development	1	2021	3	2023
XM913 Subscale Muzzle Brake Erosion Test (30mm)	2	2022	3	2022
XM913 Environmental Testing	1	2023	3	2023
Bradley Hybrid Electric Vehicle (BHEV) Development	3	2020	3	2022
Bradley Hybrid Electric Vehicle Prototype Build/Integration	4	2021	4	2022
Bradley Hybrid Electric Vehicle ATC Test	4	2022	2	2023
Bradley Hybrid Electric Vehicle Transition Decision	2	2023	2	2023
Advanced Combat Vehicle Concepts and Studies	2	2021	3	2023
Advanced Lightweight Track (ALwT) Development	4	2021	1	2023
Advanced Lightweight Track (ALwT) Validation Testing	2	2023	4	2023
SPHS Lightweighting Prototype Development	2	2022	2	2023
SPHS Lightweighting Testing	3	2022	3	2023
High Voltage Power Controller (HVPC) Prototype	2	2021	3	2022
High Voltage Power Controller (HVPC) Testing	3	2022	3	2023
High Voltage Power Controller (HVPC) 2nd Source Development	1	2023	4	2023
High Voltage Power Controller 2nd Source Prototype Build	2	2023	3	2023
High Voltage Power Controller 2nd Source Test	3	2023	4	2023
High Voltage Power Controller 2nd Source Transition Decision	4	2024	4	2024

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / Armored System Modernization - Adv Dev	Project (Number/Name) EV7 / Combat Vehicle Prototyping
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Events	Start		End	
	Quarter	Year	Quarter	Year
Advanced Combat Powertrain Production Design Mechanical Verification	1	2021	1	2024
Advanced Combat Powertrain Refinement	1	2024	1	2026
Advanced Combat Powertrain Design Refinement Build	2	2022	4	2022
Advanced Combat Powertrain Field Test Support and FACAR Review	3	2022	4	2022
Advanced Combat Powertrain Design Validation Plan	4	2022	2	2023
Advanced Combat Powertrain Design CAD	2	2023	3	2023
Advanced Combat Powertrain Field Test	1	2024	1	2026
Abrams Lightweight Running Gear Casting Prototype	4	2023	2	2024
Abrams Lightweight Running Gear Lab Prototype	3	2024	1	2025
Abrams Lightweight Running Gear Vehicle Prototype Set	1	2025	4	2025
MUM-T Manned Control Vehicles (MCV) Development	2	2022	3	2023
MUM-T Manned Control Vehicles (MCV) Prototypes	3	2022	4	2023
MUM-T Manned Control Vehicles (MCV) Test	4	2022	2	2025
MUM-T- Protected Comms (PCM) C5ISR Modular Open Suite of Standards (CMOSS) Dev	3	2023	2	2024
MUM-T - Protected Comms (PCM) CMOSS Prototypes Build	1	2024	1	2025
MUM-T - Protected Comms (PCM) CMOSS Prototypes Test	1	2025	3	2026
Stryker Energy Attenuating (EA) Seat Development	3	2022	4	2022
Stryker Energy Attenuating (EA) Seat Hardware Evaluation	4	2022	3	2023
Stryker Energy Attenuating (EA) Seat Transition Decision	1	2024	1	2024
AMERCA-M Prototype Build	4	2022	1	2023
AMERCA-M Design	3	2022	1	2023
AMERCA-M Track and Suspension CDR	3	2022	3	2022
AMERCA-M Powertrain CDR	3	2022	3	2022
AMERCA-M Build Complete	4	2023	4	2023
AMERCA-M Dynamometer Testing	1	2023	2	2023

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603645A / Armored System Modernization - Adv Dev	Project (Number/Name) EV7 / Combat Vehicle Prototyping
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Events	Start		End	
	Quarter	Year	Quarter	Year
AMERCA-M Test Site T&E	3	2023	4	2023
Tank Modernization Design	1	2021	2	2022
Tank Modernization Build	2	2022	4	2022
Tank Modernization Test	1	2023	2	2025
Soft Kill System Advancements - Countermeasure Development	4	2022	1	2023
Soft Kill System Advancements - Countermeasure Prototype Build	4	2021	2	2022
Soft Kill System Advancements - Couermeasure Test	3	2022	3	2022
Soft Kill System Advancements - CountermeasureTechniques Test	3	2022	1	2023
Soft Kill System Advancements - Countermeasure Transition Decision	1	2023	1	2023
Optionally Manned Tank (OMT) Development/Design/Modeling	4	2021	3	2023
Optionally Manned Tank (OMT) Build	2	2022	2	2023
Optionally Manned Tank (OMT) Soldier Touch Point	2	2023	2	2023
Optionally Manned Tank (OMT) Experiment	3	2023	3	2023
AiTR Phase II SW & Algorithm Improvements	4	2020	2	2021
AiTR Phase II Test	1	2021	2	2022
AiTR Phase II Data Collection	2	2022	2	2022
AiTR Phase II Algorithm Improvement	2	2022	2	2022
AiTR Phase II Test 2	3	2022	4	2022
AiTR Phase III 3GF Test & Evaluation	1	2023	2	2024
Data Architecture Library	3	2022	1	2023
Data Architecture Model	4	2022	1	2023
CORSAIR Soldier Experiments	3	2022	4	2024
Congressional ADD Abrams Modernization	3	2023	4	2024
Congressional ADD Auxiliary Power Unit	3	2023	4	2024
Vehicle Excursion 4 - PIF Prototype Design	1	2025	2	2025

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Events	Start		End	
	Quarter	Year	Quarter	Year
Vehicle Excursion 4 - PIF Prototype Build	2	2025	3	2025
Vehicle Excursion 4 - Operationally-relevant Soldier Touch Point	3	2025	4	2025
Vehicle Excursion 4 - Government-owned Level II TDP	4	2025	2	2026