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

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605813M / <i>Joint Light Tactical Veh (JLTV) Sys Dev & Dem</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	5.346	2.713	2.609	10.748	-	10.748	8.132	2.810	2.368	2.418	Continuing	Continuing
3209: <i>Joint Light Tactical Vehicle</i>	5.346	2.713	2.609	10.748	-	10.748	8.132	2.810	2.368	2.418	Continuing	Continuing

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 279

A. Mission Description and Budget Item Justification

Joint Light Tactical Vehicle (JLTV) supports light fleet modernization and Force Design as the next generation replacement for legacy High Mobility Multipurpose Wheeled Vehicle (HMMWV) and light tactical trailers. Funding supports the JLTV Family of Vehicles (FoV) to include the development and testing of Command, Control, Communications, Computers, & Intelligence (C4I) for integration with the JLTV. JLTV is a joint program between the U.S. Army and the U.S. Marine Corps, of which the U.S. Army is the lead service. The JLTV FoV is capable of performing multiple mission roles designed to provide protected, sustained, and networked mobility for personnel and payloads across the full Range of Military Operations. JLTV features include increased performance, protection, and payload over the current HMMWV fleet, reducing ownership costs by maximizing commonality, fuel efficiency, and reliability. The commonality of components, maintenance procedures, and training among vehicles are inherent in FoV solutions across mission variants to minimize total ownership costs. Unique service requirements have been minimized.

RDT&E funding supports modernization of the JLTV Family of Vehicles by investigating technology insertions including, but not limited to, ambulance shelter kit design analysis for the JLTV, vehicle electronics systems, and other emerging technologies and safety initiatives; engineering change orders (ECOs), and retrofits to maintain the configuration of the trucks being used to integrate various weapons platforms.

Current Command, Control, Communications, Computers and Intelligence Surveillance and Reconnaissance (C4ISR) integration activities include integration of systems such as: Marine Air Defense Integrated System (MADIS) and Remote Weapons System (RWS) Cannon, Network on the Move (NOTM), Communications Emitter Sensing and Attack Systems (CESAS II), Joint Battle Command-Platform (JBC-P), Tactical Imagery Production System Next Generation (TIPS NG), Mobile Command Vehicle (MCV), and Navy Marine Expeditionary Ship Interdiction System (NMESIS) Key Leader Vehicle.

FY 2025 budget activities for the JLTV Family of Vehicles (FoV) include initiation of JLTV ambulance shelter kit design analysis, and continuation of JLTV A2 vehicle live fire and survivability testing, system engineering/integration, engineering design analysis, and test efforts. Efforts will focus on development/enhancement efforts required for the integration of C4ISR requirements on the JLTV FoV; next generation powertrain that will consider a hybrid option; cyber scans to evaluate emerging threats and technologies; cyber security vulnerability assessments; and development/integration of associated fielded and force design solution for the JLTV system and other system technical support to develop and integrate vehicle and software enhancements that support ongoing Marine Corps Force Design modernization efforts.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	2.856	2.609	2.485	-	2.485
Current President's Budget	2.713	2.609	10.748	-	10.748
Total Adjustments	-0.143	0.000	8.263	-	8.263
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.105	0.000			
• SBIR/STTR Transfer	-0.037	0.000			
• Program Adjustments	0.000	0.000	9.221	-	9.221
• Rate/Misc Adjustments	-0.001	0.000	-0.958	-	-0.958

Change Summary Explanation

The increase from Previous President's Budget reflects the initiation of the JLTV ambulance shelter kit design analysis.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy										Date: March 2024		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605813M / <i>Joint Light Tactical Veh (JLTV) Sys Dev & Dem</i>				Project (Number/Name) 3209 / <i>Joint Light Tactical Vehicle</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
3209: <i>Joint Light Tactical Vehicle</i>	5.346	2.713	2.609	10.748	-	10.748	8.132	2.810	2.368	2.418	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 279												

A. Mission Description and Budget Item Justification

Joint Light Tactical Vehicle (JLTV) supports light fleet modernization and Force Design as the next generation replacement for legacy High Mobility Multipurpose Wheeled Vehicle (HMMWV) and light tactical trailers. Funding supports the JLTV Family of Vehicles (FoV) to include the development and testing of Command, Control, Communications, Computers, & Intelligence (C4I) for integration with the JLTV. JLTV is a joint program between the U.S. Army and the U.S. Marine Corps, of which the U.S. Army is the lead service. The JLTV FoV is capable of performing multiple mission roles designed to provide protected, sustained, and networked mobility for personnel and payloads across the full Range of Military Operations. JLTV features include increased performance, protection, and payload over the current HMMWV fleet, reducing ownership costs by maximizing commonality, fuel efficiency, and reliability. The commonality of components, maintenance procedures, and training among vehicles are inherent in FoV solutions across mission variants to minimize total ownership costs. Unique service requirements have been minimized.

RDT&E funding supports modernization of the JLTV Family of Vehicles by investigating technology insertions including, but not limited to, ambulance shelter kit design analysis for the JLTV, vehicle electronics systems, and other emerging technologies and safety initiatives; engineering change orders (ECOs), and retrofits to maintain the configuration of the trucks being used to integrate various weapons platforms.

Current Command, Control, Communications, Computers and Intelligence Surveillance and Reconnaissance (C4ISR) integration activities include integration of systems such as: Marine Air Defense Integrated System (MADIS) and Remote Weapons System (RWS) Cannon, Network on the Move (NOTM), Communications Emitter Sensing and Attack Systems (CESAS II), Joint Battle Command-Platform (JBC-P), Tactical Imagery Production System Next Generation (TIPS NG), Mobile Command Vehicle (MCV), and Navy Marine Expeditionary Ship Interdiction System (NMESIS) Key Leader Vehicle.

FY 2025 budget activities for the JLTV Family of Vehicles (FoV) include initiation of JLTV ambulance shelter kit design analysis, and continuation of JLTV A2 vehicle live fire and survivability testing, system engineering/integration, engineering design analysis, and test efforts. Efforts will focus on development/enhancement efforts required for the integration of C4ISR requirements on the JLTV FoV; next generation powertrain that will consider a hybrid option; cyber scans to evaluate emerging threats and technologies; cyber security vulnerability assessments; and development/integration of associated fielded and force design solution for the JLTV system and other system technical support to develop and integrate vehicle and software enhancements that support ongoing Marine Corps Force Design modernization efforts.

The net increase from FY 2024 to FY 2025 of \$8.139M is due to the initiation of the JLTV ambulance shelter kit design analysis and the reduction of system technical support engineering efforts and operational test and evaluation of the A2 vehicle.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605813M / <i>Joint Light Tactical Veh (JLTV) Sys Dev & Dem</i>	Project (Number/Name) 3209 / <i>Joint Light Tactical Vehicle</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>Title: Joint Light Tactical Vehicle (JLTV)</p> <p align="right">Articles:</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Perform live fire and survivability testing on A2 production test vehicle. - Continue developmental and engineering efforts including: energy efficiency upgrades such as anti-idle and initial analysis of a next generation powertrain that will consider a hybrid option; Cyber Scans to evaluate emerging threats and technologies; integration of the A2 engine; JLTV Utility Multipurpose Protected Shelter (JUMPS) to support emerging requirements such as Force Protection and Survivability improvements; enhancing performance of C4ISR system capabilities as they relate to the JLTV; developmental efforts required for the integration of future C4ISR requirements on the JLTV; and cyber security vulnerability assessments, and development/integration of associated legacy and Force Design solutions for the JLTV system and integrated capabilities and software. - Continue to improve military equipment operational availability and readiness of MAGTF resources with JLTV as the prime mover. Work consists of improving at-platform data diagnostics and collection, data transmission and storage, and development of predictive analytics. These continued efforts will further support emerging requirements for the Marine Corps Condition Based Maintenance+ (CBM+) enterprise data architecture, increase the JLTV CBM+ data efficiency and support development of engineering change proposals (ECP) to install CBM enabling technologies on the JLTV. <p>FY 2025 Base Plans:</p> <ul style="list-style-type: none"> - Continue live fire and survivability testing on A2 production test vehicle. - Continue developmental and engineering efforts including: energy efficiency upgrades such as anti-idle and initial analysis of a next generation powertrain that will consider a hybrid option; Cyber Scans to evaluate emerging threats and technologies; integration of the A2 engine; enhancing performance of C4ISR system capabilities as they relate to the JLTV; developmental efforts required for the integration of future C4ISR requirements on the JLTV; and cyber security vulnerability assessments, and development/integration of associated legacy and Force Design solutions for the JLTV system and integrated capabilities and software. - Initiate the JLTV ambulance shelter kit design analysis for future integration onto the Utility JLTV variant to replace the legacy HMMWV M997A2 4 litter shelter ambulance assigned to Logistics Combat Element (LCE) 	2.713	2.609	10.748	0.000	10.748
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Medical Battalions and Marine Expeditionary Unit (MEU) Combat Logistics Battalions (CLBs). This is required to complete light fleet modernization. FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: The net increase from FY 2024 to FY 2025 of \$8.139M is due to the initiation of the JLTV ambulance shelter kit design analysis and the reduction of system technical support engineering efforts and operational test and evaluation of the A2 vehicle.					
Accomplishments/Planned Programs Subtotals	2.713	2.609	10.748	0.000	10.748

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPA/D15603: <i>JLTV (Army)</i>	664.071	839.413	741.817	-	741.817	724.128	733.902	776.345	785.820	14,276.380	24,843.648
• RDT&E/VU9: 0605812A - <i>JLTV (Army)</i>	9.376	27.243	26.959	-	26.959	43.187	43.452	42.506	42.931	77.561	809.649
• PMC/5095: <i>JLTV (MC)</i>	436.708	232.501	340.542	-	340.542	168.526	499.510	509.460	520.169	987.528	5,962.827

Remarks

D. Acquisition Strategy

Joint Light Tactical Vehicle (JLTV) is a Joint Program Office (JPO) with the U.S. Army and U.S. Marine Corps as the two main components. The U.S. Army is the JLTV service lead. The JLTV Program entered the Production and Deployment Phase with the Acquisition Decision Memorandum authorization on 25 August 2015. With Milestone C approval, the LRIP fixed price contract was awarded to Oshkosh Defense LLC on 25 August 2015.

This contract consisted of a three-year LRIP period with options for five additional years of FRP deliveries. JPO JLTV procured the Technical Data Package (TDP) with appropriate data rights to allow for future competition for production vehicles and spares. The last option to exercise was on 30 November 2023.

The follow-on production contract was competitively awarded to AM General LLC on 09 Feb 2023 as a single award five-year requirements contract with five one-year options. Split procurements occurred through FY 2024 between the Oshkosh Defense LLC contract and the AM General LLC contract based on the approved acquisition strategy. In accordance with the JPO acquisition strategy, realized cost savings will be applied within the program to procure additional vehicles.

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The approved Full Rate Production (FRP) joint cost position validated the requirement for continuing RDT&E for system enhancements.

The JLTV program will continually monitor emerging technologies and capabilities through its partnerships with U.S. Army and Marine Corps science and technology organizations as well as through industry market research and partnerships. The JLTV program will look for opportunities to implement increased capabilities throughout the systems' life cycle.

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

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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			
Condition Based Maintenance	C/CPFF	Pennsylvania State University : State College, PA	1.375	0.083	Dec 2023	0.090	Dec 2023	0.000		-		0.000	0.000	1.548	-
Ambulance Shelter Kit Development	C/FFP	TBD : TBD	0.000	0.000		0.000		9.483	Feb 2025	-		9.483	Continuing	Continuing	Continuing
Subtotal			1.375	0.083		0.090		9.483		-		9.483	Continuing	Continuing	N/A

Remarks
Initiate the JLTV ambulance shelter kit design analysis for future integration onto the Utility JLTV variant to replace the legacy HMMWV M997A2 4 litter shelter ambulance assigned to LCE Medical Battalions and MEU Combat Logistics Battalions (CLBs). This is required to complete light fleet modernization.

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			
System Technical Support	C/CPFF	Oshkosh Defense : Oshkosh, WI	3.128	0.288	Mar 2024	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
System Technical Support	C/FFP	AM General LLC : South Bend, IN	0.000	0.000	Apr 2023	0.924	Aug 2024	0.505	May 2025	-		0.505	Continuing	Continuing	Continuing
Subtotal			3.128	0.288		0.924		0.505		-		0.505	Continuing	Continuing	N/A

Remarks
Continue engineering efforts to support the development of engineering change proposals that ensure and enhance the operability, reliability, availability, maintainability and safety of the JLTV fleet.

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			
Live Fire Test & Evaluation (LFT&E)	C/FFP	AM General LLC : South Bend, IN	0.000	0.824	Jan 2024	0.000		0.000		-		0.000	0.000	0.824	-

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

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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			
Live Fire Test & Evaluation (LFT&E)	MIPR	Aberdeen Test Center : Aberdeen Proving Ground, MD	0.000	0.000		0.719	Jun 2024	0.760	Oct 2024	-		0.760	0.000	1.479	-
Operational Test & Evaluation (OT&E)	MIPR	Ground Vehicle Systems Center : Warren, MI	0.843	1.518	Apr 2023	0.876	Jun 2024	0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			0.843	2.342		1.595		0.760		-		0.760	Continuing	Continuing	N/A

Remarks
Continue live fire and survivability testing on the A2 vehicle.

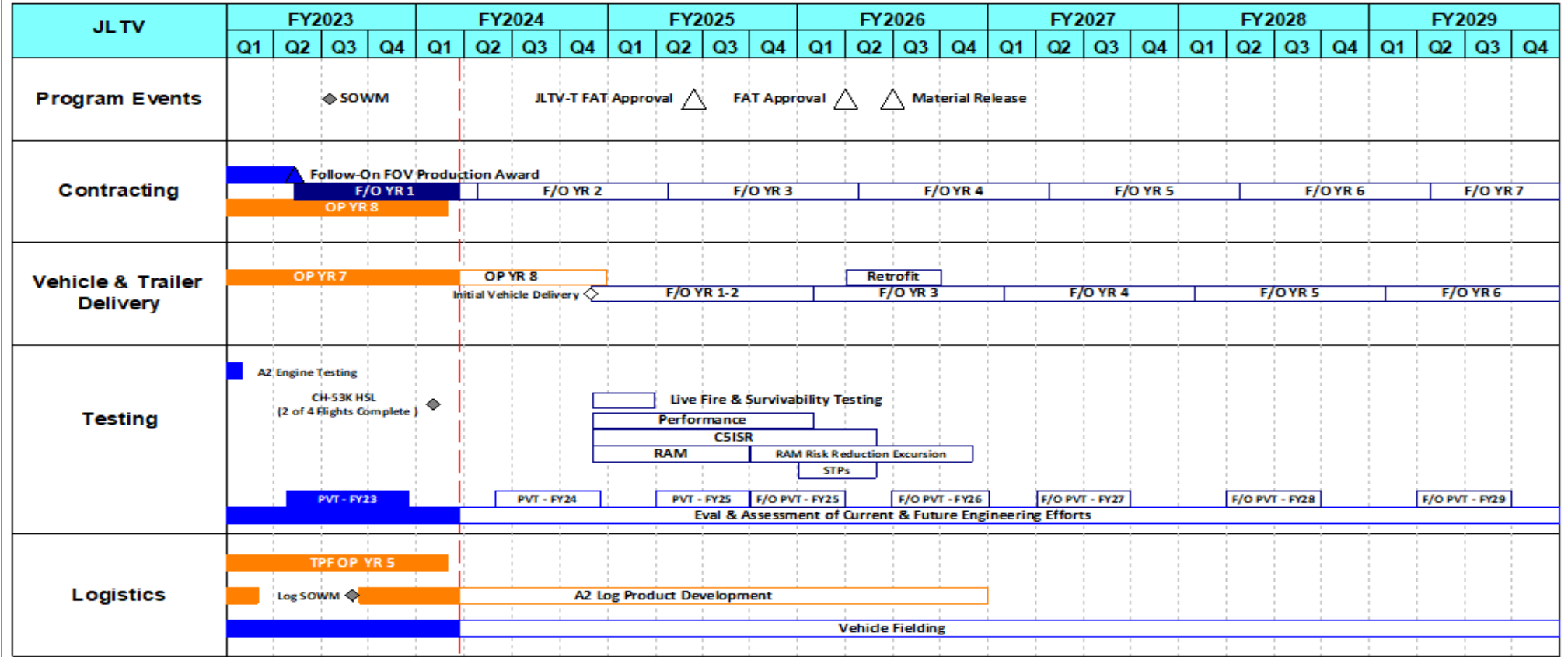
	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		5.346	2.713	2.609	10.748	-	Continuing	Continuing	N/A

Remarks
The net increase from FY 2024 to FY 2025 of \$8.139M is due to the initiation of the JLTV ambulance shelter kit design analysis and the reduction of system technical support engineering efforts and operational test and evaluation of the A2 vehicle.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy Date: March 2024

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605813M / Joint Light Tactical Veh (JLTV) Sys Dev & Dem	Project (Number/Name) 3209 / Joint Light Tactical Vehicle
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Contractor
 Government
 F/O Government
 Program Milestone
 Events

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605813M / <i>Joint Light Tactical Veh (JLTV) Sys Dev & Dem</i>	Project (Number/Name) 3209 / <i>Joint Light Tactical Vehicle</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3209				
JLTV A2 Follow-on Production Contract Award	2	2023	2	2023
JLTV A2 Initial Vehicle Delivery	4	2024	4	2024
JLTV A2 Live Fire & Survivability Testing	4	2024	1	2025
JLTV-T (Trailer) First Article Test Approval	2	2025	2	2025
JLTV A2 Performance Verification Testing	4	2025	1	2026
JLTV A2 First Article Test Approval	1	2026	1	2026