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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 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605812A / <i>Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)</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	-	9.033	27.243	27.013	-	27.013	43.272	43.537	42.589	43.014	Continuing	Continuing
VU9: <i>Joint Light Tactical Vehicle</i>	-	9.033	27.243	27.013	-	27.013	43.272	43.537	42.589	43.014	Continuing	Continuing

A. Mission Description and Budget Item Justification

The JLTV Family of Vehicles (FoV), to include a companion trailer, is a United States Army (USA) acquisition lead, joint program with the U.S. Marine Corps (USMC). The JLTV is capable of performing multiple mission roles and designed to provide protected, sustained, networked mobility for personnel and payloads across the full range of military operations. JLTV objectives include increased protection and performance over the current fleet; and, minimizing ownership costs by maximizing commonality, fuel efficiency, reliability, and maintaining effective competition throughout the life cycle. Commonality of components, maintenance procedures, training, etc., among vehicles is expected to be inherent in FoV solutions across mission variants to minimize total ownership cost. Unique service requirements have been minimized. The JLTV Trailer (JLTV-T) is the companion trailer to the JLTV and safely carries its payload while maintaining the same mobility characteristics of the prime mover. The trailer requirement as defined in the Capability Production Document (CPD), dated 21 November 2014 was validated on 7 June 2019 by the Army and required the JLTV and JLTV-T to be fielded as a system. On November 2019, Army Futures Command validated the JLTV-T Army Procurement Objective (APO) of 18,224. The Follow-on JLTV Contract was awarded on 09 February 2023 as a single award five-year requirements contract with five one-year options.

This program element supports modernization of the JLTV FoV by investigating technology insertions including, but not limited to: predictive logistics, vetronics, Victory Architecture, autonomous operations and other emerging technologies. This program element also supports developing initial prototypes to enable refinement of Operational Requirements and early user feedback to support future sustainment and operational movement operating concepts.

The FY 2025 budget funds \$27.013M for multiple efforts including \$24.800M for the development and continuation of Hybrid Electric Vehicles (HEV) and Battery Electric Vehicles (BEV) that support Army Demand Reduction strategies to field purpose-built hybrid-drive tactical vehicles and mitigate a gap in Large-Scale Combat Operations to employ semi-independent maneuver in a Multi-Domain Operational (MDO) environment. A JLTV HEV/BEV will seek to improve and provide new capabilities such as silent mobility, extended silent watch, reduced fuel consumption, increased automotive performance, increased on-board vehicle power (Direct Current), available export power (Alternating Current), integrated charging, and potential Vehicle-To-Grid (V2G). Funding in the amount of \$1.414M also supports the development and continuation of engineering efforts including 3PMSF winter tires, force protection enhancements, suspension enhancements, signature management mitigations and other emerging technologies. The continuation of Follow-on-Contract Live Fire Evaluation testing will be funded to \$0.758M and Follow-On Test Contractor support will be funded to \$0.041M.

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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	9.376	27.243	26.959	-	26.959
Current President's Budget	9.033	27.243	27.013	-	27.013
Total Adjustments	-0.343	0.000	0.054	-	0.054
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.001	-			
• SBIR/STTR Transfer	-0.342	-			
• Adjustments to Budget Years	-	-	0.054	-	0.054

Change Summary Explanation

FY 2025 funding increase due to economic adjustment.

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605812A / Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)				Project (Number/Name) VU9 / Joint Light Tactical Vehicle			
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
VU9: Joint Light Tactical Vehicle	-	9.033	27.243	27.013	-	27.013	43.272	43.537	42.589	43.014	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

	FY 2023	FY 2024	FY 2025
Title: Evaluation and assessment of current and future Climate Change initiatives	7.500	24.311	22.458
Description: Funding is provided for the support of JLTV evaluation and assessment of current and future Demand reduction initiatives			

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605812A / Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)	Project (Number/Name) VU9 / Joint Light Tactical Vehicle		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: FY2024 JLTV Climate Change budget activities will finalize the design/test or JLTV A1 Anti-Idle kits and initiate the JLTV HEV/ BEV design, development and testing for prototype solutions.</p> <p>FY 2025 Plans: Continuation of JLTV HEV/BEV design, development and testing for prototype solutions.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding from FY24 to FY25 due to completion of JLTV A1 Anti-Idle kits requirement in FY24.</p>				
<p>Title: JLTV - Hybrid Electric Vehicle (HEV) Support</p> <p>FY 2024 Plans: Support for the development of the Hybrid Electric Vehicle (HEV) program to include program management and monitoring of vendor performance.</p> <p>FY 2025 Plans: Support for the development of the Hybrid Electric Vehicle (HEV) program to include program management and monitoring of vendor performance.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding from FY24 to FY25 due to ramp up from FY24 to full onboarding in FY25.</p>		-	0.989	2.342
<p>Title: Evaluation and Assessment of current and future engineering efforts</p> <p>Description: Funding is provided for the support of JLTV evaluation and assessment of current and future engineering efforts.</p> <p>FY 2024 Plans: Development and continuation of engineering efforts that include development of acoustic mitigation, occupant safety/survivability, JLTV and JLTV-T mission sets (e.g. - Assault Kitchen) and artic enhancements.</p> <p>FY 2025 Plans: Development and continuation of engineering efforts including 3PMSF winter tires, force protection enhancements, suspension enhancements, signature management mitigations, and other emerging technologies.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding from FY24 to FY25 due to initiation of 3PMSF winter tires and suspension enhancements.</p>		1.081	0.314	1.414
<p>Title: Test Assets - Follow-on Contract (FOC)</p>		0.452	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Description: Procurement of test assets - Follow-on Contract (FOC)			
Title: Live Fire Testing - Follow-on Contract (FOC)	-	0.713	0.758
Description: Live Fire Testing - Follow-on Contract (FOC)			
FY 2024 Plans: Live Fire Testing - Follow-on Contract (FOC)			
FY 2025 Plans: Live Fire Testing - Follow-on Contract (FOC)			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding from FY24 to FY25 due to increased scope for Live Fire Testing.			
Title: Follow-on Contract (FOC) contractor support for Test Assets	-	0.916	0.041
Description: Follow-on Contract (FOC) contractor support for Test Assets.			
FY 2024 Plans: Contractor FOC support.			
FY 2025 Plans: Contractor FOC support.			
FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding from FY24 to FY25 due to completion of primary contractor support testing requirements.			
Accomplishments/Planned Programs Subtotals	9.033	27.243	27.013

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
• D15610: JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICLES	858.780	839.413	653.223	-	653.223	581.788	595.695	618.570	609.367	Continuing	Continuing
• D15615: JOINT LIGHT TACTICAL VEHICLE (JLTV)	788.894	786.946	623.117	-	623.117	569.906	582.561	607.783	589.356	Continuing	Continuing

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• D15618: JOINT LIGHT TACTICAL VEHICLE TRAILER (JLTV-T)	69.886	52.467	30.106	-	30.106	11.882	13.134	10.787	20.011	Continuing	Continuing
• D00929: JOINT LIGHT TACTICAL VEHICLE (JTLV) MOD-IN-SERVICE	8.084	8.055	27.565	-	27.565	47.483	66.875	66.938	67.609	Continuing	Continuing
• MC - 5095: JOINT LIGHT TACTICAL VEHICLE (JLTV) - USMC	436.708	232.500	340.542	-	340.542	168.526	499.510	509.460	520.169	Continuing	Continuing
• MC - 0605813M: JOINT LIGHT TACTICAL VEHICLE (JLTV) - USMC	2.713	2.609	10.748	-	10.748	8.132	2.810	2.368	2.418	Continuing	Continuing

Remarks
JLTV is a Joint Program with the United States Marine Corps (USMC)

D. Acquisition Strategy

The JLTV Family of Vehicles (FoV), to include a companion trailer, is a United States Army (USA) acquisition lead, joint program with the U.S. Marine Corps (USMC).

The JLTV Program entered the Production and Deployment Phase with the Acquisition Decision Memorandum authorization on 25 August 2015. With Milestone C approval, the Low Rate Initial Production (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 Full Rate Production (FRP) deliveries. JPO JLTV procured the Technical Data Package (TDP) with appropriate data rights to allow for possible future competition for production vehicles and spares. The Follow-on JLTV Contract was awarded to AM General LLC on 09 February 2023 as a single award five-year requirements contract with five one-year options. AM General will produce the JLTV A2 configuration which incorporates technical enhancements identified by our Soldiers and the Marines. This includes improved noise reduction, storage space, power distribution systems, corrosion protection, and fuel efficiency. JLTV is working initiatives for demand reduction and mitigation of acoustic and thermal signatures (Tactical Vehicle Electrification Kit (TVEK) - Anti Idle Engineering Change Procedure (ECP)) and Hybrid Electric Vehicle strategies for component maturation and system integration. The specific acquisition approach for these future models and variants will be refined as the technical solutions are matured.

A split procurement will occur between the existing Oshkosh Contract and AM General based on the approved acquisition strategy through FY24.

Program achieved a successful FRP decision in May 2019. The FRP Acquisition Decision Memorandum was signed in June 2019.

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<p>The trailer requirement as defined in the Capability Production Document (CPD), dated 21 November 2014 was validated on 7 June 2019 by the Army and required the JLTV-T to be fielded to units receiving JLTV trucks with a documented trailer requirement. In November 2019, Army Futures Command validated the JLTV-T Army Procurement Objective (APO) of 18,224. In June 2020, the 1st JLTV Trailer Production Contract was awarded to Oshkosh for 1,410 Army JLTV-Ts.</p> <p>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. Engineering initiatives will directly support the Army Demand Reduction Strategy and the operational needs of the Soldier. The anticipated outcome of these initiatives is fully validated Engineering Change Proposals (ECPs) that can be applied to the current and future JLTV fleet.</p>		

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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 0605812A / Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)	Project (Number/Name) VU9 / Joint Light Tactical Vehicle
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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
Evaluation and assessment of current and future Demand Reduction initiatives	Various	Various : Various	0.993	7.500	Dec 2022	24.311	Oct 2023	22.458	Oct 2024	-		22.458	Continuing	Continuing	-
Evaluation and Assessment of current and future engineering efforts	MIPR	Various : Various	17.572	1.081	Feb 2023	0.314	Jan 2024	1.414	Jan 2025	-		1.414	Continuing	Continuing	Continuing
Test Assets - Follow-on Contract (FOC)	SS/FFP	AM General LLC : TBD	-	0.452	Feb 2023	-		-		-		-	0.000	0.452	-
Follow-on Contract (FOC) support for Test Assets	SS/FFP	AM General LLC : TBD	-	-		0.916	Nov 2023	0.041	Jan 2025	-		0.041	0.000	0.957	-
Subtotal			18.565	9.033		25.541		23.913		-		23.913	Continuing	Continuing	N/A

Remarks
FY 2025 plans include the development and continuation of Hybrid Electric Vehicles (HEV) and Battery Electric vehicles (BEV); the development and continuation of engineering efforts including 3PMSF winter tires, force protection enhancements, suspension enhancements, signature management mitigations and other emerging technologies; and Follow-On Test Contractor support.

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
JLTV - HEV	Various	Ground Vehicle Systems Center (GVSC) : Warren, MI	-	-		0.989		2.342	Oct 2024	-		2.342	Continuing	Continuing	-
Subtotal			-	-		0.989		2.342		-		2.342	Continuing	Continuing	N/A

Remarks
FY 2025 plans include support for the development of the Hybrid Electric Vehicle (HEV) program to include program management and monitoring of vendor performance.

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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 0605812A / Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)	Project (Number/Name) VU9 / Joint Light Tactical Vehicle
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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 Testing - Follow-on Contract (FOC)	MIPR	Various Government Test Sites : Various	-	-		0.713	Jun 2024	0.758	Jan 2025	-		0.758	0.000	1.471	-
Subtotal			-	-		0.713		0.758		-		0.758	0.000	1.471	N/A

Remarks
FY 2025 plans include the completion of Follow-on-Contract Live Fire testing.

	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	18.565	9.033	27.243	27.013	-	27.013	Continuing	Continuing	N/A

Remarks

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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
Evaluation and Assessment	[Redacted]																											
JLTV Utility Multipurpose Protected Shelter (JUMPS)	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
Anti-Idle	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
JLTV Electrification Analysis	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
JLTV Hybrid Electric Vehicle (HEV) & Battery Electric Ve...	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
Survivability	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
Acoustic Mitigation	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
3PMSF Winter Tires	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
JLTV Suspension enhancements	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
Competitive Follow-On Contract Award	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
Follow-on Contract Live Fire and Survivability Testing	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			

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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
Evaluation and Assessment	3	2018	4	2037
JLTV Utility Multipurpose Protected Shelter (JUMPS)	4	2021	4	2023
Anti-Idle	3	2022	4	2024
JLTV Electrification Analysis	2	2021	4	2024
JLTV Hybrid Electric Vehicle (HEV) & Battery Electric Vehicle (BEV)	3	2024	3	2030
Survivability	2	2023	4	2026
Acoustic Mitigation	2	2023	2	2025
3PMSF Winter Tires	2	2025	2	2027
JLTV Suspension enhancements	2	2025	2	2027
Competitive Follow-On Contract Award	2	2023	2	2023
Follow-on Contract Live Fire and Survivability Testing	4	2024	2	2025