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

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604611A / JAVELIN
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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	-	15.899	7.827	10.405	-	10.405	10.085	10.192	10.306	10.409	0.000	75.123
499: <i>Javelin (AAWS-M)</i>	-	15.899	7.827	10.405	-	10.405	10.085	10.192	10.306	10.409	0.000	75.123

**A. Mission Description and Budget Item Justification**

The Javelin Advanced Anti-Tank Weapon System-Medium (AAWS-M) is a man-portable, fire-and-forget, medium-range missile with enhanced situational awareness and precision direct-fire effects to defeat armored vehicles, fortifications, and soft targets in a range of military operations. Javelin has a high kill rate against a variety of targets at extended ranges under day/night, battlefield obscurants, adverse weather and multiple counter-measure conditions. The system's soft launch feature permits firing from a fighting position or an enclosure. Javelin uses a modular design to allow the system to evolve to meet changing threats and requirements via both software and hardware upgrades. The system consists of a reusable Command Launch Unit (CLU) with a built-in-test (BIT), and a modular missile encased in a disposable launch tube assembly. The system also includes training devices for tactical training and classroom training. Javelin's fire-and-forget technology allows the gunner to fire and immediately take cover, to move to another fighting position, or to reload. The Javelin provides enhanced lethality through the use of a tandem multi-purpose warhead which will defeat all known armor threats. It is effective against both stationary and moving targets. This system also provides defensive capability against attacking/hovering helicopters. The CLU can also be used as a stand-alone surveillance and target acquisition asset. Javelin can be adapted for use on a variety of platforms and remote weapon stations using the Javelin Vehicle Platform Adapter Kit (JVPAK). The Javelin weapon system is an Army-led, Acquisition Category (ACAT) IC Major Defense Acquisition Program (MDAP) that has joint interest with United States forces and international partners. Research, Development, Test & Evaluation (RDT&E) funding provides for system improvements in accordance with the Javelin Capabilities Production Document objectives and user priorities for future development.

FY 2025 dollars in the amount of \$10.405 million will continue Javelin system improvements to address emerging threats, improve engagement timeline, and increase lethality.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	16.186	7.827	10.384	-	10.384
Current President's Budget	15.899	7.827	10.405	-	10.405
Total Adjustments	-0.287	0.000	0.021	-	0.021
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.287	-			
• Adjustments to Budget Years	-	-	0.021	-	0.021

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**Appropriation/Budget Activity**  
 2040: *Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)*

**R-1 Program Element (Number/Name)**  
 PE 0604611A / JAVELIN

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

**Project:** 499: *Javelin (AAWS-M)*

Congressional Add: *Program Increase - Army Requested Transfer from MiP Line 11*

Congressional Add Subtotals for Project: 499

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	8.316	-
Congressional Add Subtotals for Project: 499	8.316	-
Congressional Add Totals for all Projects	8.316	-

**Change Summary Explanation**

Increase due for minor economic adjustment increase.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604611A / JAVELIN				<b>Project (Number/Name)</b> 499 / Javelin (AAWS-M)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
499: Javelin (AAWS-M)	-	15.899	7.827	10.405	-	10.405	10.085	10.192	10.306	10.409	0.000	75.123
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Javelin Advanced Anti-Tank Weapon System-Medium (AAWS-M) is a man-portable, fire-and-forget, medium-range missile with enhanced situational awareness and precision direct-fire effects to defeat armored vehicles, fortifications, and soft targets in a range of military operations. Javelin has a high kill rate against a variety of targets at extended ranges under day/night, battlefield obscurants, adverse weather and multiple counter-measure conditions. The system's soft launch feature permits firing from a fighting position or an enclosure. Javelin uses a modular design to allow the system to evolve to meet changing threats and requirements via both software and hardware upgrades. The system consists of a reusable Command Launch Unit (CLU) with a built-in-test (BIT), and a modular missile encased in a disposable launch tube assembly. The system also includes training devices for tactical training and classroom training. Javelin's fire-and-forget technology allows the gunner to fire and immediately take cover, to move to another fighting position, or to reload. The Javelin provides enhanced lethality through the use of a tandem multi-purpose warhead which will defeat all known armor threats. It is effective against both stationary and moving targets. This system also provides defensive capability against attacking/hovering helicopters. The CLU can also be used as a stand-alone surveillance and target acquisition asset. Javelin can be adapted for use on a variety of platforms and remote weapon stations using the Javelin Vehicle Platform Adapter Kit (JVPAK). The Javelin weapon system is an Army-led, Acquisition Category (ACAT) IC Major Defense Acquisition Program (MDAP) that has joint interest with United States forces and international partners. Research, Development, Test & Evaluation (RDT&E) funding provides for system improvements in accordance with the Javelin Capabilities Production Document objectives and user priorities for future development.

FY 2025 dollars in the amount of \$10.405 million will continue Javelin system improvements to address emerging threats, improve engagement timeline, and increase lethality.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Javelin System Improvements	7.471	7.712	10.288
<p><b>Description:</b> Javelin Weapon System Research and Development funding line completes development of a new Lightweight Command Launch Unit (LWCLU), conducts countermeasure and threat mitigation as well as develops critical software/hardware upgrades for the Javelin Missile System. It provides improved capability to the warfighter by doubling the target identification range and increasing system engagement range up to 4km, while reducing soldier burden. LWCLU and Missile Software improvements, like Auto-Gate/Fast-Launch, will address emerging threats, improve engagement timeline, and increase lethality.</p> <p><b>FY 2024 Plans:</b> Complete LWCLU Qualification Testing. Begin software improvements, including Auto-Gate/Fast-Launch, to improve the Javelin Weapons System engagement time and increase lethality against emerging threats and potential adversary countermeasures.</p> <p><b>FY 2025 Plans:</b></p>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604611A / JAVELIN	<b>Project (Number/Name)</b> 499 / Javelin (AAWS-M)

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Continue software improvements and begin hardware improvements to improve the Javelin Weapon System engagement time and increase lethality against emerging threats and potential adversary countermeasures. <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The increase in funding from FY 2024 to FY 2025 is to begin hardware improvements to improve the Javelin Weapon System engagement time.			
<b>Title:</b> Integration and Countermeasure/Threat management <b>Description:</b> Integration and Countermeasure/Threat management allows for technical assessments, concept studies, documentation, prototypes, demonstrations and risk mitigation efforts to address emerging threats and to maintain modernized overmatch capability for U.S. and Allied Nations ground forces. <b>FY 2024 Plans:</b> Continue to perform technical assessments, concept studies, prepare documentation, develop prototypes and perform risk reduction efforts to address emerging threats as well as peer and near peer adversary Javelin countermeasures. <b>FY 2025 Plans:</b> Continue to perform technical assessments, concept studies, prepare documentation, develop prototypes and perform risk reduction efforts to address emerging threats as well as peer and near peer adversary Javelin countermeasures. <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Minor increase due to economic assumptions.	0.112	0.115	0.117
<b>Accomplishments/Planned Programs Subtotals</b>	7.583	7.827	10.405

	<b>FY 2023</b>	<b>FY 2024</b>
<b>Congressional Add:</b> Program Increase - Army Requested Transfer from MiP Line 11	8.316	-
<b>FY 2023 Accomplishments:</b> Congressional Interest Item funding provided for Army Requested Transfer from MiP Line 11.		
<b>Congressional Adds Subtotals</b>	8.316	-

<b>C. Other Program Funding Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• H06102: JAVELIN (AAWS-M)	811.396	132.564	165.313	-	165.313	307.499	315.476	322.918	330.958	0.000	2,386.124
• H06103: Javelin Lightweight Command Launch Unit (CLU)	63.122	66.945	160.807	-	160.807	164.448	163.351	167.240	170.520	0.000	956.433

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604611A / JAVELIN	<b>Project (Number/Name)</b> 499 / Javelin (AAWS-M)
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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>
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**Remarks**

**D. Acquisition Strategy**

Current Acquisition Strategy addresses software and hardware technology upgrades to the Javelin system. The Javelin Lightweight Command Launch Unit (LWCLU) addresses the Close Combat Missile System-Medium (CCMS-M) Capability Production Document requirement for a low soldier burden dismounted anti-tank missile system. System upgrades will address emerging threats, improve engagement timeline and increase lethality. Development effort utilizes prime contractor, Javelin Joint Venture (Raytheon, Tucson, AZ, and Lockheed Martin, Orlando, FL). The Javelin Joint Venture has invested Independent Research and Development in the LWCLU. Future LWCLU and Missile system upgrades will continue to address emerging threats and ensure modernized overmatch capability for U.S and allied ground forces. LWCLU is currently in Low-Rate Initial Production (LRIP) with Full-Rate Production (FRP) scheduled in FY 2024. Pre-Planned Product Improvements will be cut into future production as Engineering Change Proposals (ECPs) to the existing LWCLU and missile configurations. These improvements will include technology refresh efforts as necessary, and capability enhancements as prioritized by the requirements developer.

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604611A / JAVELIN	<b>Project (Number/Name)</b> 499 / Javelin (AAWS-M)
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<b>Management Services (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
System Engineering/ Program Management, Govt	Various	Multiple : Redstone Arsenal, AL	6.324	0.054	Mar 2023	0.769	Feb 2024	0.785	Feb 2025	-		0.785	0.000	7.932	-
<b>Subtotal</b>			6.324	0.054		0.769		0.785		-		0.785	0.000	7.932	N/A

<b>Product Development (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Javelin System Improvements	Various	Multiple : Various Locations	56.760	-		6.943	Mar 2024	9.503	Mar 2025	-		9.503	0.000	73.206	-
Integration and Counter Measure/Threat management	MIPR	Multiple : Various Locations	0.255	0.112	Mar 2023	0.115	Mar 2024	0.117	Mar 2025	-		0.117	0.000	0.599	-
<b>Subtotal</b>			57.015	0.112		7.058		9.620		-		9.620	0.000	73.805	N/A

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Lightweight CLU Qualification	SS/CPFF	JJV/Raytheon/ Lockheed Martin : Orlando, FL/Tucson, AZ	9.454	9.561	Feb 2023	-		-		-		-	0.000	19.015	-
Lightweight CLU Qualification	MIPR	Redstone Test Center : Redstone Arsenal, AL	1.137	1.955	May 2024	-		-		-		-	0.000	3.092	-
Lightweight CLU Airborne Compatibility Qualification Test	MIPR	Yuma Proving Grounds : Yuma, AZ	-	0.122	Apr 2023	-		-		-		-	0.000	0.122	-
Lightweight CLU Operational Testing	MIPR	Multiple : Various Locations	1.146	4.095	Apr 2023	-		-		-		-	0.000	5.241	-
<b>Subtotal</b>			11.737	15.733		-		-		-		-	0.000	27.470	N/A

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604611A / JAVELIN	<b>Project (Number/Name)</b> 499 / Javelin (AAWS-M)
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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			

**Remarks**  
 FY 2024 - Due to failures found in system qualification, additional qualification testing (Delta Qual) will be required in FY 2024. FY 2024 testing will be conducted using residual FY 2023 funds.

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	75.076	15.899	7.827	10.405	-	10.405	0.000	109.207	N/A

**Remarks**

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604611A / JAVELIN	<b>Project (Number/Name)</b> 499 / Javelin (AAWS-M)
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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
<b>Lightweight Command Launch Unit (LWCLU)</b>																												
LWCLU Qualification Testing																												
LWCLU Airborne Compatibility Qualification Test			▲ 1																									
LWCLU Operational Testing																												
<b>Javelin System Improvements</b>																												
Auto-Gate/Fast-Launch																												
Formal Qualification Test (FQT)																									▲ 2			
Flight Test																									▲ 3			
ECP Cut-in 1																									▲ 4			
LWCLU HIPPI CCA Modernization																												
LWCLU HIPPI CCA Qualification Test																											▲ 5	
ECP Cut-in 2																									▲ 5			
Integration and Counter Measure/Threat management																												

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604611A / JAVELIN	<b>Project (Number/Name)</b> 499 / Javelin (AAWS-M)
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Lightweight Command Launch Unit (LWCLU)	3	2021	1	2024
LWCLU Qualification Testing	3	2021	1	2024
LWCLU Airborne Compatibility Qualification Test	4	2023	4	2023
LWCLU Operational Testing	1	2023	4	2023
Javelin System Improvements	1	2020	4	2028
Auto-Gate/Fast-Launch	2	2024	4	2029
Formal Qualification Test (FQT)	4	2028	4	2028
Flight Test	3	2029	3	2029
ECP Cut-in 1	4	2029	4	2029
LWCLU HIPPI CCA Modernization	1	2025	4	2029
LWCLU HIPPI CCA Qualification Test	2	2029	3	2029
ECP Cut-in 2	4	2029	4	2029
Integration and Counter Measure/Threat management	4	2022	4	2029