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**Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	<b>R-1 Program Element (Number/Name)</b> PE 0605450A / Joint Air-to-Ground Missile (JAGM)
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	2.467	2.366	3.014	0.000	3.014	3.024	0.000	0.000	0.000	Continuing	Continuing
JAG6: Joint Air-To-Ground Missile (JAGM)	-	2.467	2.366	3.014	-	3.014	3.024	-	-	-	Continuing	Continuing

**Program MDAP/MAIS Code:** 355

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

The Joint Air-to-Ground Missile (JAGM) program is an Army-led, Acquisition Category (ACAT) 1C Major Defense Acquisition Program (MDAP) with joint interest with the Navy, Marine Corps, and Air Force. JAGM is the next generation, multi-mode, air-to-ground munition replacing legacy HELLFIRE (HF) and HF Longbow munitions. JAGM will be used for destruction of high-value land and maritime targets, moving or stationary, and is capable of being fired from any platform currently firing HF from a US Army-issued M299 launcher. JAGM utilizes a HF back-end (propulsion, warhead and control system) with a new-design, Millimeter Wave (MMW) and Semi-Active Laser (SAL), multi-mode guidance section. The multi-mode capability provides fire-and-forget and precision-point targeting as well as unique, blended modes of each, for improved capability over legacy munitions.

FY 2024 dollars in the amount of \$3.014 million will continue the objective platform review, analysis, and threat management.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	2.134	2.366	3.078	-	3.078
Current President's Budget	2.467	2.366	3.014	-	3.014
Total Adjustments	0.333	0.000	-0.064	-	-0.064
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.333	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.064	-	-0.064

**Change Summary Explanation**

Decreased funding to support higher Army priorities.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605450A / Joint Air-to-Ground Missile (JAGM)				<b>Project (Number/Name)</b> JA6 / Joint Air-To-Ground Missile (JAGM)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
JA6: Joint Air-To-Ground Missile (JAGM)	-	2.467	2.366	3.014	-	3.014	3.024	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Joint Air-to-Ground Missile (JAGM) program is an Army-led, Acquisition Category (ACAT) IC Major Defense Acquisition Program (MDAP) with joint interest with the United States (U.S.) Air Force, U.S. Marine Corps (USMC), and U.S. Navy. The JAGM is the next generation of aviation-launched, fire and forget missiles to replace the HELLFIRE Laser and Longbow radar missiles. JAGM will be used by joint service aircraft for destruction of high value stationary, moving, and relocatable land and maritime targets from standoff range in day, night, adverse weather, and obscured battlefield conditions.

FY 2024 dollars in the amount of \$3.014 million will continue the objective platform review, analysis, and threat management.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Full Rate Production (FRP) Decision Preparation	0.284	-	-
<b>Description:</b> The Air-to-Ground Missile Systems (AGMS) Product Office and Other Government Agencies (OGAs) will confirm that JAGM is producible, as well as operable, safe, and logistically supportable.			
<b>Title:</b> Integration and Counter Measure/Threat Management	0.416	2.280	3.014
<b>Description:</b> The Air-to-Ground Missile Systems (AGMS) Product Office and Other Government Agencies (OGAs) will continue objective platform review, analysis, and threat management. The AGMS Product Office and OGAs will perform technical assessments, concept studies, prepare documentation, and perform demonstrations and risk reduction efforts.			
<b>FY 2023 Plans:</b> The AGMS Product Office and OGAs will perform technical assessments, concept studies, prepare documentation, and perform risk reduction efforts to address emerging threats.			
<b>FY 2024 Plans:</b> The AGMS Product Office will continue to address design and development of Congressional mandates to include extended range motor and third sensor. AGMS teams will support development of technical documentation to include master test plans, specifications, diagrams, drawings, test reports, and requirements documentation. AGMS will also support long lead test procurement, risk reduction assessments, and all required design verification testing.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605450A / Joint Air-to-Ground Missile (JAGM)	<b>Project (Number/Name)</b> JA6 / Joint Air-To-Ground Missile (JAGM)

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Increase due to requirements for efforts to perform activities for integration and counter measure/threat management.			
<b>Title:</b> Captive Air Training Missile (CATM) Development <b>Description:</b> The CATM is used for captive flight training and for qualification of aircrews to employ tactical missiles in combat. The Air-to-Ground Missile Systems (AGMS) Product Office will develop an inert missile configuration that will meet training needs.	0.486	-	-
<b>Title:</b> Captive Air Training Missile (CATM) Testing <b>Description:</b> The Air-to-Ground Missile Systems (AGMS) Product Office and Other Government Agencies (OGAs) will continue development testing and qualification of the JAGM CATM; achieve air worthiness on threshold platforms.	1.281	-	-
<b>Title:</b> FY2023 SBIR/STTR Transfer <b>Description:</b> Funding transferred in accordance with Title 15 USC § 638.	-	0.086	-
<b>FY 2023 Plans:</b> Funding transferred in accordance with Title 15 USC § 638. <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding transferred in accordance with Title 15 USC § 638.			
<b>Accomplishments/Planned Programs Subtotals</b>	2.467	2.366	3.014

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• C70302: Joint Air-to-Ground MSLS (JAGM)	147.177	216.030	303.409	-	303.409	162.490	191.751	175.659	181.500	5,021.811	6,399.827
• NAVY - 0605450M: Navy JAGM Missile RDT&E	0.357	0.392	0.000	-	0.000	0.383	0.392	-	-	Continuing	Continuing
• NAVY - 0206138M: Navy JAGM Missile Procurement	49.702	79.804	0.000	-	0.000	78.246	79.804	-	-	Continuing	Continuing
• AF - 0201109F: Air Force Missile Procurement	-	-	-	-	-	-	-	-	-	-	-

**Remarks**

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605450A / Joint Air-to-Ground Missile (JAGM)	Project (Number/Name) JA6 / Joint Air-To-Ground Missile (JAGM)

**D. Acquisition Strategy**

JAGM received its Full Rate Production decision 21 September 22 following the Navy's successful AH-1Z initial operation test and evaluation test flights in February 2022 and declaring IOC in March 2022. JAGM shares a production line with HELLFIRE and there are three minimum sustaining rates for the line: Backend (motor) 1,200, Hellfire (guidance section) 1,200, and JAGM (guidance section) 600. AGMS achieves minimum sustaining rate through a combination of procurement supporting Army, Air Force, Navy and FMS requirements.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605450A / Joint Air-to-Ground Missile (JAGM)	<b>Project (Number/Name)</b> JA6 / Joint Air-To-Ground Missile (JAGM)
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<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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 Eng/ Project Management	C/LH	Various : Performers	85.172	0.258	Apr 2022	0.104	Mar 2023	0.195	Mar 2024	-		0.195	Continuing	Continuing	Continuing
FY2023 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.086		-		-		-	0.000	0.086	-
<b>Subtotal</b>			85.172	0.258		0.190		0.195		-		0.195	Continuing	Continuing	N/A

<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
JAGM Engineering Services	SS/CPFF	Lockheed Martin : Orlando, FL	8.754	1.458	Jun 2022	1.300	Mar 2023	1.921	Mar 2024	-		1.921	Continuing	Continuing	Continuing
<b>Subtotal</b>			8.754	1.458		1.300		1.921		-		1.921	Continuing	Continuing	N/A

**Remarks**  
 (C / FFP) - Competitive/Firm Fixed Price  
 (C / CPFF) - Competitive/Cost-Plus Fixed Fee  
 (C / LH) - Competitive/Labor Hour  
 (SS / FFP) - Sole Source/Firm Fixed Price  
 (C / FPIF) - Competitive/Fixed Price Incentive (Firm Target)

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Other Gov Agencies	C/LH	Various : Performers	135.773	0.751	Apr 2022	0.876	Mar 2023	0.898	Mar 2024	-		0.898	Continuing	Continuing	Continuing
<b>Subtotal</b>			135.773	0.751		0.876		0.898		-		0.898	Continuing	Continuing	N/A

			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			229.699	2.467	2.366	3.014	-	3.014	Continuing	Continuing	N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605450A / Joint Air-to-Ground Missile (JAGM)	<b>Project (Number/Name)</b> JA6 / Joint Air-To-Ground Missile (JAGM)

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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				▲ 1																								
CATM Development	█																											
CATM Testing	█																											
Integration and Counter Measure/Threat Management	█																											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605450A / <i>Joint Air-to-Ground Missile (JAGM)</i>	<b>Project (Number/Name)</b> JA6 / <i>Joint Air-To-Ground Missile (JAGM)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Full Rate Production (FRP) Decision	4	2022	4	2022
CATM Development	1	2020	1	2022
CATM Testing	1	2021	3	2022
Integration and Counter Measure/Threat Management	1	2019	4	2025

**Note**  
 MS: Milestone  
 IOC: Initial Operational Capability  
 IOT&E: Initial Operational Test & Evaluation  
 CATM: Captive Air Training Missile  
 HW: Hardware  
 SW: Software