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Department of Defense  
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

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# JOINT AIR-TO-GROUND MISSILE (JAGM)

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**December 2021 Selected Acquisition Report (SAR)**



**December 31, 2021**

**Department of the Army**

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## Executive Summary

### Program Highlights Since Last Report (Congress):

The JAGM requirements are stable and funding is adequate to meet cost and performance objectives established in the current approved APB. There is no increased risk to the JAGM program since the last SAR.

Since Milestone C in June 2018, the program has awarded five contract options for Low Rate Initial Production (LRIP) and a facilitization option for rate ramp from 600 missiles to 1200 missiles per year.

LRIP 2 missile deliveries completed and LRIP 3 deliveries are on schedule. LRIP 4 awarded on March 11, 2021, LRIP 5 awarded April 30, 2021.

JAGM has successfully demonstrated full capability on the AH-64E platform. JAGM Initial Operational Test and Evaluation (IOT&E) and Apache AH-64E Version 6 (V6) Follow-on Operational Test and Evaluation II (FOT&E II) was successfully completed in May 2019 and Live Fire Test and Evaluation (LFT&E) in July 2019.

On August 17, 2020, the Army Acquisition Executive authorized the acquisition of an additional 3,000 LRIP missiles. The additional LRIPs allow for continuation of production until completion of the Navy's operational testing on the AH-1Z Viper. The Navy IOT&E shots were completed at both Eglin Air Force Base and Yuma Proving Grounds in December 2021. The Navy is currently on-track to receive the IOT&E report 2nd Quarter FY 2022. Successful completion of Navy IOT&E supports the JAGM FRP decision in July 2022.

There are no significant software-related issues with the program at this time.

### History of Significant Developments Since Program Initiation:

Date	Description
Oct-2014	USD(AT&L) authorized the release of the final request for proposal for the JAGM Engineering and Manufacturing Development (EMD) contract and Low Rate Initial Production (LRIP) options to include LRIP long lead items.
Jul-2015	Lockheed Martin was awarded the competitive JAGM EMD contract to develop the next generation of aviation-launched missiles to replace the HELLFIRE laser and Longbow radar missiles.
Aug-2015	The Joint Attack Munition Systems (JAMS) Project Office, with support from the U.S. Army Aviation and Missile Research, Development and Engineering Center and Lockheed Martin,

	<p>successfully conducted the third JAGM flight test at Eglin Air Force Base, Florida. The missile had a nominal launch and impacted and destroyed the target. The missile executed a DopplerBeam Sharpening trajectory, increasing the probability of hit against a difficult stationary target using the Active Fire and Forget. Among many firsts, this was the first test of JAGM using the Active Fire and Forget engagement mode and the first engagement of an armored vehicle.</p>
Jan-2016	<p>The JAMS Project Office conducted a successful JAGM System Critical Design Review (CDR)/Initial Production Readiness Review. The JAGM CDR confirmed the system design is stable and is able to meet system performance requirements as evidenced by the detailed design documentation. The CDR also demonstrated the program to be on track to achieve affordability, should cost goals and establish the system's initial product baseline. The OSD post-CDR Assessment Report provided an overall assessment of the review and technical risk.</p>
Aug-2016	<p>On August 23, 2016, JROC Memorandum 088-16 approved the Army's request to change the JAGM Key Performance Parameters for In-Flight Reliability to a Key System Attribute in accordance with the Joint Capabilities Integration and Development System manual.</p>
Mar-2017	<p>On March 17, 2017, the JAGM Product Office received the Army Program Delegation Decisions Acquisition Decision Memorandum (ADM) in which the USD (AT&amp;L) delegated to the Secretary of the Army milestone decision authority for JAGM. Accordingly, the designation for JAGM acquisition program is now ACAT IC.</p>
Jun-2018	<p>The JAGM program was approved for Milestone C in June 2018 and authorized entry into Production and Deployment.</p>
Aug-2018	<p>On August 16, 2018, the JAGM Product Office awarded LRIP 1 for a quantity of 373 missiles (Army).</p>
Sep-2018	<p>On September 11, 2018, LRIP 2 awarded a quantity of 600 missiles (502 Army and 98 Navy).</p>
Dec-2018	<p>On December 17, 2018, the JAGM Product Office awarded LRIP 2B for a quantity of 450 missiles (397 Army, six Navy, and 47 Other Customers). On December 19, 2018, JAGM received its first LRIP production missiles.</p>
Jan-2019	<p>On January 24-29, 2019, the JAGM Product Office, with support from Yuma Proving Ground, Redstone Test Center, U.S. Army Combat Capabilities Development Command Aviation &amp; Missile Center, the Apache Project Office, Boeing, and Lockheed Martin, conducted six JAGM launches from the fully integrated Apache. These tests utilized the AH-64Ev6 with the JAGM Pilot Vehicle Interface that provides optimized cockpit selections. On January 26, 2018, JAGM successfully completed Cooperative Vulnerability and Penetration Assessment (CVPA) and Cybersecurity Adversarial Assessment (AA).</p>
Mar-2019	<p>JAGM achieved IOC in March 2019.</p>

May-2019	JAGM and Apache PMs conducted JAGM IOT&E & Apache AH-64E Version 6 (V6) Follow-on Operational Test & Evaluation II (FOT&E II) on April 24 through May 7, 2019. Eight total JAGM flight tests, two maritime and six land, were successfully completed. JAGM has demonstrated full capability on an AH-64E and successfully completed IOT&E.
Jul-2019	Live Fire Test and Evaluation (LFT&E) lethality and the Live Fire strategy commitment were successfully completed on July 7, 2019. The Army Test & Evaluation Command (ATEC) and the office of the Director, Operational Test and Evaluation (DOT&E) will evaluate all shots for lethality. Test results will support the Operational Evaluation Report (OER) from ATEC and the Beyond LRIP Report from DOT&E.
Nov-2019	On November 27, 2019, the JAGM Product Office awarded LRIP 3 for a quantity of 825 missiles (750 Army and 75 Navy).
Dec-2019	On December 13, 2019, the JAGM Product Office awarded a Rate Ramp to increase the facilitization and production capacity from 600 missiles per year to 1,200 missiles per year.
Dec-2019	The JAGM Product Office completed seven missile launches in stressing, realistic, tactical conditions from Apache AH-64E version 6 at Yuma Proving Ground, AZ on December 3-12, 2019. The collected data supports system evaluation, Safety Confirmation, Airworthiness Release, and validation and accreditation of the system simulation. All shots were successful and will be assessed for lethality. These results will support the Operational Evaluation Report and the Beyond LRIP Report from office of the Director, Operational Test and Evaluation (DOT&E).
Jun-2020	During September through October 2019, the AGMS PdO administered an MRL 9 assessment to support the FRP DR to assess the industrial base and prime contractor capabilities. The assessment resulted in 60 of 66 sub-thread criteria rated at MRL 9. The JAGM established and worked a maturation plan which resulted in the remaining 6 sub-threads achieving an MRL 9 by June 2020
Aug-2020	Due to a schedule delay on the Navy AH-1Z platform integration and testing, the milestones for Navy IOC and FRP were revised. On August 17, 2020, the Army Acquisition Executive (AAE) authorized an additional 3,000 LRIP missiles until the Navy completes IOT&E requirements currently scheduled for September 2021. There are no performance issues with the missile itself; however, without all IOT&E objectives completed, the program does not meet statutory requirements for FRP. The AAE also approved the updated APB for the Navy IOC and FRP milestones. The APB re-baselined the Navy IOC objective date to September 2021, and threshold date to March 2022, and the FRP objective date to March 2022, and threshold date to September 2022.
Apr-2021	LRIP 4 and 5 were awarded on March 11, 2021 and April 30, 2021, respectively.

## Schedule

### Schedule Events

Event Title (or Header)	Current Objective	Current Threshold	Current Estimate/Actual Date	Deviation?
Milestone B	Jul-2015	Jul-2015	Jul-2015	
CDR	Jan-2016	Jan-2016	Jan-2016	
Milestone C	Mar-2018	Sep-2018	Jun-2018	
Army IOC	Sep-2018	Mar-2019	Mar-2019	
Navy IOC	Sep-2021	Mar-2022	Feb-2022	
FRP Decision	Mar-2022	Sep-2022	Jul-2022	

<i>Schedule Notes:</i>	<i>Schedule Deviation Explanations:</i>
<p>(Ch-1) Navy IOC current estimate changed from September 2021 to February 2022 due to a delay in completion of Navy IOT&amp;E until February 2022.</p> <p>(Ch-2) FRP current estimate changed from March 2022 to July 2022 due to a delay in Navy IOT&amp;E. The program must complete IOT&amp;E on all threshold platforms to meet statutory requirements for the FRP decision.</p>	

### Significant Schedule Risks

Event	Date	Description
MS B	7/15/2015	Cost/Schedule: Guidance Section (GS) Qualification Design Maturity – the contractor’s design may require additional GS qualification in EMD. This risk was assessed as Low. Driver: Contractor GS design maturity Mitigation Activities: Request for proposals to require evidence of design maturity, stability, and specification compliance: (1) Test results, technical drawings, and specification data (2) GS software and firmware and Integrated Flight Simulation, evidence of established manufacturing processes to support an assessed Manufacturing Readiness Level (MRL) 7 or higher.
MS B	7/15/2015	Schedule: Platform Qualification - JAGM hardware deliveries and test schedule may not align with launch platform availability. This risk was assessed as Low. Driver: Competing JAGM/platform test schedules Mitigation Activities: Develop synergy between test activities to maximize test asset availability, coordinate with platform project office to synchronize JAGM and platform schedules, conduct regular communication with stakeholders regarding integration and test activities.

MS B	7/15/2015	Schedule: Producibility/Yield – JAGM prime contractor and suppliers may not meet quality and production rate requirements. This risk was assessed as Low. Driver: Contractor production and quality process maturity. Mitigation Activities: Conduct MRL 7 assessment during source selection, require Government MRL assessments of prime contractor and key suppliers early in EMD and prior to LRIP demonstrating MRL 8 before Milestone C, require flow down of quality requirements to suppliers, require robust parts management planning and selection.
MS B	7/15/2015	Cost/Schedule: In-Flight Reliability requirement may not be demonstrated during baseline EMD flight tests (48 firings). This risk was assessed as Moderate. Driver: Flight tests may experience more failures than expected (two failures). Mitigation Activities: Perform rigorous failure investigation, corrective action and configuration management to ensure production representative All-Up-Rounds are used for Reliability, Availability and Maintainability scoring, conduct additional flight tests (Follow-On Test & Evaluation and Quality Verification Testing) after Milestone C to demonstrate statistical confidence in reliability, convene Configuration Steering Board to pursue an affordable and achievable requirement based on existing reliability data for the fielded HELLFIRE missile, coordinate with Training and Doctrine Command to develop CPD KPP Threshold value for In-Flight Reliability.
MS C	6/15/2018	Production Ramp Rates – the Prime Contractor may not be able to produce JAGMs at required rate if unable to increase production yield and mature the production line by the end of LRIP. This risk was assessed as moderate. Mitigation Activities: Government and Prime Contractor initiate Yield Improvement Team (YIT) to identify ramp rate challenges and implement appropriate corrective actions.
MS C	6/15/2018	Threshold Platform Integration – the threshold platforms will not have full JAGM capability if threshold platform software modifications for full JAGM integration are not completed on schedule. This risk was assessed as moderate. Mitigation Activities: Crew Station working group will address potential challenges and drive to resolution in sufficient time to support Initial Operational Test & Evaluation (IOT&E). Apache Pilot-Vehicle Interface (PVI) discussions, held on a biweekly basis in the Platform Integration Integrated Product Team (IPT), ensure PVI agrees with missile and user requirements. Avionics Integration Lab (AIL) testing will be performed on a continual basis as software is developed to verify interface.
MS C	6/15/2018	Schedule to demonstrate suitability and effectiveness - JAGM may not satisfy warfighter requirements within the required timeframe if JAGM experiences delays of environmental Production Qualification Test (PQT) or IOT&E. This risk was assessed as moderate. Mitigation Activities: Failure review board processes during PQT will inform required hardware and software updates.
Current	6/15/2018	The JAGM program completed IOT&E on the Army AH-64E Apache in May 2019. The program was perceived to be on-track for a FRP decision in July 2020. Platform software issues on the Navy AH-1Z Viper (threshold platform) discovered during flight tests, have delayed completion of the AH-1Z IOT&E until 2QFY22. The AH-1Z Viper requires incorporation of additional updates to the platform software. There are no performance issues with the missile itself; however, without all IOT&E/LFT&E objectives completed, the program does not meet statutory requirements for FRP. At this time, both Services, and the independent testing communities, conclude there is a low-risk path to completing integration on the AH-1Z Viper and conducting IOT&E 2QFY22.

# Performance

Performance Attributes					
Current Objective	Current Threshold	Current Estimate	Deviation?	Demonstrated Performance	Date
Attribute Title:	Systems survivability - Cyber survivability (See Performance Note 1)			KPP	
No higher than low	No higher than moderate	No higher than moderate		Adversarial assessment conducted	1/16/2018
Attribute Title:	System Survivability - E3 and CBRN			KPP	
Host A/C compatibility, MIL-STD-464 (HERO, EMC), MIL-STD-461, and MIL-STD 2169 (HEMP)	(T=O) Host A/C compatibility, MILSTD-464 (HERO, EMC), MIL-STD461, and MIL-STD 2169 (HEMP)	Host A/C compatibility, MILSTD-464 (HERO, EMC), MIL-STD461, and MIL-STD 2169 (HEMP)		E3 completed March 23, 2018; CBRN completed March 2017	
Attribute Title:	Training - Support development of all training packages and devices			KPP	
Yes	(T=O) Yes	Yes		NET conducted Feb 11, 2019 - March 20, 2019	3/20/2019
Attribute Title:	Range - Minimum Engagement Range Rotary Wing (RW)				
500m	(T=O) 500 m	500m		Demonstrated February 1, 2018	2/1/2018
Attribute Title:	Range - Maximum Range (RW)				
>=16 km	8 km	8 km		Demonstrated March 28, 2018	3/28/2018
Attribute Title:	Range - Minimum Engagement Range (FW)				
2 km (1 nm)	None	None		See Performance Note 2	
Attribute Title:	Range - Maximum Range (FW)				
28 km (15 nm)	None	None		See Performance Note 2	



Attribute Title:	Carrier/Shipboard Operability - Compatible with carrier/shipboard operations without degrading other Naval operations		KPP	
Yes	(T=O) Yes	Yes	Shipboard Weapons Integration Team Report completed January 10, 2018	
Attribute Title:	Interoperability - Interoperable with joint rotary and fixed wing (manned and unmanned) aircraft		KPP	
MQ-1C Gray Eagle, MH-60M DAP, AH-6M, MH-60S, MH-60R, AH64D, F/A-18 E/F, F35, F/A-18 A-D, KC130J Harvest Hawk, AC-130J, AV-8B, V22, Future UAS, A-10, F-16, MQ-9	AH-64E, AH-1Z	AH-64E, AH-1Z	Federated SW demo: MQ-1C - 25 May 2016 AH-64D - 07 Dec 2016 AH-64E - 24 Jan 2017 AH-1Z - 13 Feb 2018 Integrated SW demo: AH-64E V6 – 23 Jan 2019	
Attribute Title:	Interoperability - Laser Designation		KPP	
Compatible with standard Joint aviation platform laser designation systems, including PRF and PIM codes.	(T=O) Compatible with standard Joint aviation platform laser designation systems, including PRF and PIM codes.	Compatible with standard Joint aviation platform laser designation systems, including PRF and PIM codes.	Completed compatibility testing March 13, 2018	3/18/2018

<i>Performance Notes:</i>	<i>Performance Deviation Explanations:</i>
1/ Moderate Risk means that a threat event could be expected to have a serious adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation. Low Risk means that a threat event could be expected to have a limited adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.	

DoD Cybersecurity Risk Assessment Guide,  
November 5, 2015, Table 2-15.

2/ The JAGM CPD for JAGM Increment 1 dated  
10 May 2018, section 5.2.3 (KPP #5 - Range),  
states, "There are no fixed wing requirements for  
JAGM Increment 1 since fixed wing platforms are  
objective", therefore there are no estimates at this  
time.

Acronyms:

A/C - Aircraft

CBRN - Chemical, Biological, Radiation, Nuclear

DAP - Direct Air Penetrator

E3 - Electromagnetic Environmental Effects

EMC - Electromagnetic Compatibility

FW - Fixed Wing

HEMP - High-Altitude Electromagnetic Pulse

HERO - High Intensity Radio Frequency (HIRF)

Transmission and Hazards of Electromagnetic  
Radiation to Ordnance

km - kilometer

m - meter

MIL-STD - Military Standard

NET - New Equipment Training

nm - nautical mile

O - Objective

P-BIT - Power-on Built In Test

PIM - Pulse Interval Modulation

PRF - Pulse Repetition Frequency

RW - Rotary Wing

SW - Software

T - Threshold

UAS - Unmanned Aircraft System

# Acquisition Budget Estimates

## Total Acquisition Cost

Budget Year: 2023      Base Year: 2018

Appropriation Category (\$Millions)	Objective Base Year (Current APB)	Threshold Base Year (Current APB)	Budget Estimate Base Year	Budget Estimate Then Year	Deviation?
RDT&E	\$ 1,074.9	\$ 1,182.4	\$ 1,090.1	\$ 1,020.1	
Procurement	\$ 5,951.5	\$ 6,546.7	\$ 5,573.5	\$ 7,182.2	
MILCON	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
Acq O&M	\$ 44.0	\$ 48.4	\$ 46.8	\$ 59.3	
<b>Total Acquisition</b>	\$ 7,070.4		\$ 6,710.4	\$ 8,261.6	
PAUC	\$ 0.267	\$ 0.294	\$ 0.254	\$ 0.313	
APUC	\$ 0.226	\$ 0.249	\$ 0.212	\$ 0.273	

## Total End Item Quantity

Quantity	Current APB	Current Estimate
Development Qty	118	118
Procurement Qty	26,319	26,319

### Budget Notes:

Army Acquisition Executive approved Current APB, August 17, 2020

### Cost Deviation Explanations:

### Quantity Notes:

## Risk and Sensitivity Analysis

Current Procurement Risks:	
1.	Milestone C was approved by the AAE on June 15, 2018. The SAR Baseline is being updated from a Development Estimate to a Production Estimate and the base year of the program was revised from FY2015 to FY 2018.
2.	The July 29, 2015 JAGM Milestone B ADM directs the Army and Navy to fund the program to the level of the OSD CAPE ICE. This estimate, like all previous OSD CAPE estimates, was built upon a product-oriented work breakdown structure, is based on historical cost information to the maximum extent possible, and most importantly based on conservative assumptions that are consistent with actual demonstrated contractor and Government performance for a series of acquisition programs in which the Department was successful.
3.	In the Joint Cost Position, dated May 15, 2018, the following risks were identified: the cost risk associated with this program is moderate to high due to lack of JAGM/HELLFIRE data to develop learning and rate curves (LC and RC) and procurement schedule uncertainty. The potential impact on program cost is that the APUC is highly sensitive to fluctuations in the LC and RC. This variation in the curves will stabilize as the missile matures and production quantities increase. Approaches to mitigate these risks that are being implemented include: significant 1921, 1921-1, and 1921-2 data collection for both the JAGM and HELLFIRE programs, and the development of an Affordability IPT to work on implementing tasks that would drive affordability in a positive trend for JAGM.

## Unit Cost

### Current Baseline Compared with Current Estimate

Current Baseline Base Year: 2018

Category (\$ Millions)	Current Baseline	Current Estimate	% Change	Breach? Significant or Critical
<b>Program Acquisition Unit Cost</b>				
Acquisition Cost	\$ 7,070.4	\$ 6,710.4		
Program Quantity	26,437	26,437		
PAUC	\$ 0.267	\$ 0.254	-5.09%	None
<b>Average Procurement Unit Cost</b>				
Procurement Cost	\$ 5,951.5	\$ 5,573.5		
Procurement Quantity	26,319	26,319		
APUC	\$ 0.226	\$ 0.212	-6.35%	None

## Original Baseline Compared with Current Estimate

Original Baseline Base Year: 2015

Category (\$ Millions)	Original Baseline	Current Estimate	% Change	Breach? Significant or Critical
<b>Program Acquisition Unit Cost</b>				
Acquisition Cost	\$ 5,669.9	\$ 6,317.5		
Program Quantity	26,437	26,437		
PAUC	\$ 0.214	\$ 0.239	11.42%	None
<b>Average Procurement Unit Cost</b>				
Procurement Cost	\$ 4,691.4	\$ 5,223.9		
Procurement Quantity	26,319	26,319		
APUC	\$ 0.178	\$ 0.198	11.35%	None

*Unit Cost Notes:*

Current estimate is based on PB23.

## Contracts

<b>Contract Number:</b>	W31P4Q-15-C-0102	<b>Order Number:</b>		<b>Contract Title:</b>	EMD and LRIP and Deployment
CAGE Code	04939	City	Orlando	Contracting Office	ACC-Redstone
CAGE Legal Name	Lockheed Martin Corporation	State/Province	FL	Contract Strategy	FAR 15: Negotiated Contracts
<b>Effort Number</b>					
Supportive Phase	Development	Latest Modification Number	P00132	Definitization Date	7/31/2015
Contract Type	Fixed-Price Incentive (Firm Target)	Latest Modification Date	10/12/2021	Work Start Date	7/31/2015
Technical Data Rights	Government Purpose License Rights to Technical Data-- Noncommercial Items & Software	Notes	Rate Ramp is FFP with no target price. The ceiling price listed above includes obsolete parts.  Technical Data Rights are Government Purpose, Limited Rights and Restricted Rights		

				Contract is Fixed Price Incentive (Firm Target) (FPIF), Firm Fixed Price (FFP)			
				The difference between the Initial Contract Price Target and the Current Contract Price Target is due to incorporation of additional LRIP options JAGM LRIP 2B/3A Option and JAGM LRIP 3B into the contract. These options also included JAGM Rate Ramp to 100/month (Production Facilitization) and several JAGM Life Time Buys/End of Life Procurements.			
<b>Contract/Effort Price, Quantity and Performance (\$M)</b>							
Initial Target Price	\$ 195.20	Current Target Price	\$ 424.00	Contractor's EAC	\$ 401.00		
Initial Ceiling Price	\$ 201.30	Current Ceiling Price	\$ 471.30	PM's EAC	\$ 401.00		
Initial Quantity	1,155	BAC		BCWP		Work Completed	0.00%
Current Quantity	2,366	ACWP		BCWS		Cost Variance	
Delivered Quantity	1,236					Schedule Variance	
Factors Contributing to Cost Variance and Projected Effects on Program Costs:				Factors Contributing to Schedule Variance and Projected Effects on Program Schedule:			
Cost and schedule variances reporting are not required on this FPIF contract due to an EVM waiver granted by the DAE on October 17, 2014, in the JAGM Development Request for Proposals Release Decision ADM.							

<b>Contract Number:</b>	31P4Q-18-C-0130	<b>Order Number:</b>		<b>Contract Title:</b>	HELLFIRE Buy 17 FY18-FY21 and JAGM LRIP 4/5 FY20-21 Production Contract
CAGE Code	04939	City	Orlando	Contracting Office	ACC-Redstone
CAGE Legal Name	Lockheed Martin Corporation	State/Province	FL	Contract Strategy	FAR 15: Negotiated Contracts
<b>Effort Number</b>					

Supportive Phase	Production	Latest Modification Number	P00084	Definitization Date	9/29/2018		
Contract Type	Fixed-Price Incentive (Firm Target)	Latest Modification Date	10/27/2021	Work Start Date	10/1/2018		
Technical Data Rights	Government Purpose License Rights to Technical Data-- Noncommercial Items & Software	Notes	<p>Contract is FPIF/FFP/Cost Plus Fixed Fee (CPFF).</p> <p>Technical Data Rights are Government Purpose, Limited Rights and Restricted Rights.</p> <p>Contract is a combined JAGM and HELLFIRE missile contract. Quantity is JAGM only, but funding is combined JAGM/HELLFIRE.</p> <p>The difference between the Initial Contract Price Target and the Current Contract Price Target is due to incorporation of additional LRIP options, LRIP 4 and LRIP 5.</p>				
<b>Contract/Effort Price, Quantity and Performance (\$M)</b>							
Initial Target Price	\$ 3,509.60	Current Target Price	\$ 4,011.50	Contractor's EAC	\$ 4,011.50		
Initial Ceiling Price	\$ 3,637.40	Current Ceiling Price	\$ 4,157.30	PM's EAC	\$ 4,011.50		
Initial Quantity	1,896	BAC		BCWP		Work Completed	0.00%
Current Quantity	1,896	ACWP		BCWS		Cost Variance	
Delivered Quantity	0					Schedule Variance	
Factors Contributing to Cost Variance and Projected Effects on Program Costs:				Factors Contributing to Schedule Variance and Projected Effects on Program Schedule:			

## Technologies and Systems Engineering

### Significant Technical Risks

Event	Date	Description
Current	12/1/2021	Platform Software - Performance Risk: If the AH-1Z platform software fails to correct known deficiencies, or introduces new deficiencies, then the AH-1Z will not be able to effectively employ the JAGM missile.

### Deliveries and Expenditures

Quantities	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	118	118	118	100.00%
Procurement	1,373	1,469	26,319	5.58%
<b>Total</b>	1,491	1,587	26,437	6.00%

Years Appropriated to date	14	Total Years Appropriated Funding (Current Baseline):	33	Percent Years Appropriated:	42.42%
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Appropriation Category (\$Millions)	Then Year Appropriated Amount	Then Year Expended Amount
RDT&E	1,010.10	1,009.50
Procurement	1,330.50	1,096.00
MILCON	0.00	0.00
Acq O&M	8.55	8.55
<b>Total Appropriated/Expended</b>	2,340.60	2,105.5
<b>Percent Appropriated/Expended</b>	28.43%	25.59%

<i>Deliveries &amp; Expenditures Notes:</i>
Deliveries and Expenditures as of March 31, 2022.



## Low-Rate Initial Production

	Initial Decision LRIP	Current Total LRIP
Approval Date	7/29/2015	8/17/2020
Approval LRIP Quantity	2,631	5,631
Approval Document Title	JAGM Milestone B ADM	JAGM LRIP ADM
Start Year	2017	2017
End Year	2018	2021

Rationale if quantity exceeds 10% of the total number of articles to be produced: CUI: \_\_\_\_\_

The Current Total LRIP Quantity is more than 10% of the total production quantity as a result of the August 17, 2020 ADM, which authorized the program to procure up to 3,000 additional LRIP missiles, above the 2,631 authorized in the Milestone C ADM, in order to support Service and the FMS requirements until a FRP decision in FY 2022.

Quantity Note: CUI \_\_\_\_\_

On June 15, 2018, the JAGM Milestone C ADM approved the execution of the LRIP quantity of 2,631 missiles established at Milestone B

## Operating and Support (O&S) Cost

### Total Program O&S Costs Compared with Baseline

	Current Base Year Objective	Current Base Year Threshold	Current Base Year Estimate	Current Then Year Estimate	Deviation?
Total O&S (\$Millions)	\$ 400.90	\$ 441.00	\$ 409.70	\$ 728.00	

Deviation Explanation:

## Operating and Support Cost Breakdown

Category (Base Year \$Millions)	System Name: JAGM	System Name:
Unit-Level Manpower		
Unit Operations		
Maintenance	\$ 128.30	
Sustaining Support	\$ 249.60	
Continued System Improvements	\$ 31.80	
Other		
<b>Total O&amp;S</b>	<b>\$ 409.70</b>	

### Cost Estimate Source

**Type:** Other

**Approval Authority and Date:** Assistant Secretary of the Army, Financial Management and Comptroller, May 15, 2018

**Note:** The Joint Cost Position for JAGM was developed by the Office of the Deputy Assistant Secretary of the Army (Cost and Economics) and the Naval Center for Cost Analysis.

### O&S Notes:

Disposal Cost is included in the Operating and Support Cost of the current APB objective and threshold for this program.