

UNCLASSIFIED

CLEARED
For Open Publication

Sep 27, 2024

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW



Modernized Selected Acquisition Report (MSAR) Joint Air-to-Ground Missile (JAGM)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

UNCLASSIFIED

Table of Contents

Common DoD Abbreviations	3
Program Description	5
Responsible Office	6
Executive Summary	7
Schedule	9
Performance	10
Acquisition Budget Estimate	13
Unit Costs	15
Life-Cycle Costs	16
Technologies and Systems Engineering	18
Performing Activities and Contracts	19
Production	22
Deliveries and Expenditures	23
International Program Aspects	24

(U) Common DoD Abbreviations

\$B	Billions of Dollars
\$K	Thousands of Dollars
\$M	Millions of Dollars
ACAT	Acquisition Category
Acq O&M	Acquisition-Related Operations and Maintenance
ADM	Acquisition Decision Memorandum
APA	Additional Performance Attribute
APB	Acquisition Program Baseline
APPN	Appropriation
APUC	Average Procurement Unit Cost
BA	Budget Authority or Budget Activity
Blk	Block
BY	Base Year
CAE	Component Acquisition Executive
CAPE	Cost Assessment and Program Evaluation
CARD	Cost Analysis Requirements Description
CCE	Component Cost Estimate
CCP	Component Cost Position
CDD	Capability Development Document
CLIN	Contract Line Item Number
CPD	Capability Production Document
CY	Calendar Year or Constant Year
DAB	Defense Acquisition Board
DAE	Defense Acquisition Executive
DAES	Defense Acquisition Executive Summary
DAVE	Defense Acquisition Visibility Environment
DoD	Department of Defense
DSN	Defense Switched Network
EMD	Engineering and Manufacturing Development
EVM	Earned Value Management
FD	Full Deployment
FDD	Full-Deployment Decision
FMS	Foreign Military Sales
FOC	Full Operational Capability
FRP	Full-Rate Production
FY	Fiscal Year
FYDP	Future Years Defense Program
ICD	Initial Capabilities Document
ICE	Independent Cost Estimate
Inc	Increment
IOC	Initial Operational Capability
IT	Information Technology
JROC	Joint Requirements Oversight Council
KPP	Key Performance Parameter
KSA	Key System Attribute

LRIP	Low-Rate Initial Production
MDA	Milestone Decision Authority
MDAP	Major Defense Acquisition Program
MILCON	Military Construction
N/A	Not Applicable
O	Objective
O&M	Operations and Maintenance
O&S	Operating and Support
ORD	Operational Requirements Document
OSD	Office of the Secretary of Defense
PAUC	Program Acquisition Unit Cost
PB	President's Budget
PE	Program Element
PEO	Program Executive Officer
PM	Program Manager
POE	Program Office Estimate
R&MF	Revolving and Management Funds
RDT&E	Research, Development, Test, and Evaluation
SAR	Selected Acquisition Report
SCP	Service Cost Position
T	Threshold
TBD	To Be Determined
TY	Then Year
U.S.	United States
U.S.C	United States Code
UCR	Unit Cost Reporting
USD(A&S)	Under Secretary of Defense (Acquisition and Sustainment)

(U) Program Description

Full Name Joint Air-to-Ground Missile	Short Name JAGM
PNO 355	Milestone Decision Authority Component Acquisition Executive
Lead Component Department of the Army	Program Executive Office PEO Missiles & Space (M&S)
Joint Program Yes	Supporting Components Department of the Navy
Adaptive Acquisition Pathway Major Capability Acquisition	International Partners United Kingdom
Acquisition Category IC	Acquisition Type Major Defense Acquisition Program
Acquisition Status Active Acquisition	Acquired Systems JAGM

Mission

The 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.

(U) Responsible Office**Program Executive Officer**

PEO Missiles & Space (M&S)

BG Francisco J. Lozano

francisco.j.lozano8.mil@army.mil (primary)

(256) 876-0714 (commercial)

Program Manager

Tactical Aviation and Ground Munitions

Mr Craig C. Riedel

craig.c.riedel.civ@army.mil (primary)

(256) 876-1141 (commercial)

Program Executive Officer

PEO Missiles & Space (M&S)

BG Francisco J. Lozano

francisco.j.lozano8.mil@army.mil (primary)

(256) 876-0714 (commercial)

(U) Executive Summary

Program Highlights Since Last Report

The JAGM requirements are stable and funding is adequate to meet cost and performance objectives established in the current approved Acquisition Program Baseline (APB). FY22-25 Full Rate Production (FRP) contract awarded March 2023. FY23 Production contract awarded July 2023. The contractor is currently delivering against Low Rate Initial Production (LRIP) 4. The JAGM missile currently has no significant software-related issues.

(U) History of Significant Developments Since Program Inception

Date	Description
July 2023	FY23 FY22-25 AGMS Production contract awarded 31 July 2023.
March 2023	Production Acquisition Program Baseline approved March 17, 2023.
March 2023	On March 30, 2023, the AGMS product office awarded the FY22-25 contract.
September 2022	Full Rate Production (FRP) milestone ADM signed September 2022.
April 2021	LRIP 4 and 5 were awarded on March 11, 2021 and April 30, 2021, respectively.
August 2020	Due to a schedule delay on the Navy AH-1Z platform integration and testing, the milestones for Navy Initial Operational Capability (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 Initial Operational Test & Evaluation (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.
June 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
December 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).
December 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.
November 2019	On November 27, 2019, the JAGM Product Office awarded LRIP 3 for a quantity of 825 missiles (750 Army and 75 Navy).
July 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)

Date	Description
	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.
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.
March 2019	JAGM achieved IOC in March 2019.
January 2019	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 & 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 PilotVehicle Interface that provides optimized cockpit selections. On January 26, 2018, JAGM successfully completed Cooperative Vulnerability and Penetration Assessment (CVPA) and Cybersecurity Adversarial Assessment (AA).
December 2018	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.
September 2018	On September 11, 2018, LRIP 2 awarded a quantity of 600 missiles (502 Army and 98 Navy).

(U) Schedule

(U) Schedule Events

Events		Production APB (Current) 3/17/2023 Objective / Threshold		Current Estimate 12/31/2023	Actual
Milestone B	MS B	Jul 2015	Jul 2015	-	15 Jul 2015
CDR	CDR	Jan 2016	Jan 2016	-	28 Jan 2016
Milestone C	MS C	Jun 2018	Jun 2018	-	15 Jun 2018
Army IOC	IOC	Mar 2019	Mar 2019	-	27 Mar 2019
Navy IOC	Other	Mar 2022	Mar 2022	-	1 Mar 2022
FRP Decision	FRP Decision	Sept 2022	Sept 2022	-	21 Sept 2022

Notes

None

Schedule Baseline Deviation Explanation

None

(U) Current Significant Schedule Risks and Risks Identified at Milestones/Decisions

None

(U) Performance

Additional information for this section is provided in the classified annex to this submission.

(U) Performance Attributes

System Survivability		
Cyber Survivability		KPP
Current Estimate 12/31/2023		No higher than Moderate
Demonstrated Performance 1/26/2018		Adversarial Assessment conducted January 26, 2018
Production APB (Current)	Objective	No higher than Low
3/17/2023	Threshold	No higher than Moderate
E3 and CBRN		KPP
Current Estimate 12/31/2023		Host A/C compatibility, MIL-STD-464 (HERO, EMC), MIL-STD-461, and MIL-STD 2169 (HEMP)
Demonstrated Performance 3/23/2018		E3 completed March 23, 2018; CBRN completed March 2017
Production APB (Current)	Objective	Host A/C compatibility, MIL-STD-464 (HERO, EMC), MIL-STD-461, and MIL-STD 2169 (HEMP)
3/17/2023	Threshold	(T=O) Host A/C compatibility, MIL-STD-464 (HERO, EMC), MIL-STD-461, and MIL-STD 2169 (HEMP)
Training		
Support development of all training packages and training devices		KPP
Current Estimate 12/31/2023		Yes
Demonstrated Performance 3/18/2018		NET conducted Feb 11, 2019 - March 20, 2019
Production APB (Current)	Objective	Yes
3/17/2023	Threshold	(T=O) Yes
Range		
Minimum Engagement Range Rotary Wing (RW)		KPP
Current Estimate 12/31/2023		500 m
Demonstrated Performance 2/1/2018		Demonstrated February 1, 2018
Production APB (Current)	Objective	500 m
3/17/2023	Threshold	(T=O) 500 m
Maximum Range (RW)		KPP
Current Estimate 12/31/2023		8 km
Demonstrated Performance 3/28/2018		Demonstrated March 28, 2018

Production APB (Current) 3/17/2023	Objective	>=16 km
	Threshold	8 km
Maximum Range (FW)		KPP
Current Estimate 12/31/2023		None
Demonstrated Performance -		TBD
Production APB (Current) 3/17/2023	Objective	28 km (15 nm)
	Threshold	None
Minimum Engagement Range (FW)		KPP
Current Estimate 12/31/2023		None
Demonstrated Performance -		TBD
Production APB (Current) 3/17/2023	Objective	2 km (1 nm)
	Threshold	None
Carrier/Shipboard Operability		
Compatible with carrier/shipboard operations without degrading other Naval operations		KPP
Current Estimate 12/31/2023		Yes
Demonstrated Performance 1/10/2018		Shipboard Weapons Integration Team Report completed January 10, 2018
Production APB (Current) 3/17/2023	Objective	Yes
	Threshold	(T=0) Yes
Interoperability		
Interoperable with joint rotary and fixed wing (manned and unmanned) aircraft		KPP
Current Estimate 12/31/2023		Meets threshold. AH-64E, AH-1Z
Demonstrated Performance 6/8/2022		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
Production APB (Current) 3/17/2023	Objective	MQ-1C Gray Eagle, MH-60M DAP, AH-6M, MH-60S, MH-60R, AH-64D, F/A-18 E/F, F-35, F/A-18 A-D, KC-130J Harvest Hawk, AC-130J, AV-8B, V-22, Future UAS, A-10, F-16, MQ-9
	Threshold	AH-64E, AH-1Z
Laser Designation		KPP
Current Estimate 12/31/2023		Meets Objective. Compatible with standard Joint aviation platform laser designation systems, including PRF and PIM codes.
Demonstrated Performance -		Completed compatibility testing March 13, 2018

Production APB (Current) 3/17/2023	Objective	Compatible with standard Joint aviation platform laser designation systems, including PRF and PIM codes.
	Threshold	(T=O) Compatible with standard Joint aviation platform laser designation systems, including PRF and PIM codes.

(U) Requirement Source:

Sponsor(s): United States Army; United States Navy

1. Capability Production Document, *JAGM CPD*

Validated By: Joint Requirements Oversight Council, May 10, 2018

Notes

In the JAGM CPD, section 5.2.3 (KPP #5 - Range), it is stated, " There are no fixed wing requirements for JAGM Increment 1 since fixed wing platforms are objective", therefore there are no estimates at this time.

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate

(U) Total Acquisition Estimates and Quantities

Category (\$M) Base Year: 2022	Production APB (Current) 3/17/2023 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
	RDT&E	1,177.7	1,295.5	1,219.5
Procurement	6,785.9	7,464.5	6,297.4	8,339.7
MILCON	0.0	0.0	-	-
O&M	63.6	70.0	62.7	84.6
R&MF	0.0	0.0	-	-
Total Acquisition	8,027.2	-	7,579.6	9,429.9
Program Acquisition Unit Cost	0.304	0.334	0.290	0.361
Average Procurement Unit Cost	0.258	0.284	0.242	0.320
Program End-Item Quantity				
Development	118		118	
Procurement	26319		26021	
O&M-Acquired	-		-	

Budget Notes

PB25 LOCK funding profile

CAPE Cost Risks: No new programmatic risks were identified in the latest POE.

Quantity Notes

None

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	The JAGM AUR unit cost is highly sensitive to procurement quantities. The current fiscally constrained environment is driving JAGM to lower production quantities in line with the minimum sustainment rate, which in turn is raising the missile unit cost. The JAGM Program is working with other services, including the Navy and Air Force, as well as FMS channels to gauge the potential for future year procurements that would raise production quantities and lower the missile unit cost.
Current Baseline Risks (3/17/2023)	

The JAGM AUR unit cost is highly sensitive to procurement quantities. The current fiscally constrained environment is driving JAGM to lower production quantities in line with the minimum sustainment rate, which in turn is raising the missile unit cost. The JAGM Program is working with other services, including the Navy and Air Force, as well as FMS channels to gauge the potential for future year procurements that would raise production quantities and lower the missile unit cost.

Original Baseline Risks (9/29/2015)

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.

(U) Unit Costs**(U) Current Estimate Compared with Current Baseline**

Category (CY\$M) Base Year: 2022	Current Baseline 03/17/2023	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	8,027.2	7,579.6	
Program Quantity	26,437	26,139	
PAUC	0.304	0.290	-4.50%
Average Procurement Unit Cost			
Procurement Cost	6,785.9	6,297.4	
Procurement Quantity	26,319	26,021	
APUC	0.258	0.242	-6.14%

(U) Current Estimate Compared with Original Baseline

Category (CY\$M) Base Year: 2015	Original Baseline 09/29/2015	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	5,669.9	6,334.3	
Program Quantity	26,437	26,139	
PAUC	0.214	0.242	13.08%
Average Procurement Unit Cost			
Procurement Cost	4,691.4	5,262.7	
Procurement Quantity	26,319	26,021	
APUC	0.178	0.202	13.48%

The Current Estimate's constant-year dollars have been converted from Base Year 2022 to Base Year 2015 using the National Defense Budget Estimates for FY 2022 (Green Book).

(U) Cost Growth Details

Actions taken or Proposed to Control Future Cost Growth

Status of Each Major Contract and Significant Factors Contributing to Cost and Schedule Variance; Projected Effects on Future Program Costs

See Contracts section.

Notes

None

(U) Life-Cycle Costs

(U) Operating and Support and Disposal Cost Estimates Compared with Baseline

Category (\$M) Base Year: 2022	Production APB (Current) 3/17/2023 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
Total O&S	762.5	838.7	762.5	1,388.0
Total Disposal	3.8	-	3.8	9.7

(U) Current Cost Estimate Sources

Operating and Support Cost

Type: Joint Cost Position

Approved by: D, CAPE, August 24, 2022

Note: Disposal cost is not included in the Operating and Support Cost of the current APB for this program.

Disposal/Demilitarization Cost

Type: Joint Cost Position

Approved by: D, CAPE, August 24, 2022

Operating and Support Baseline Deviation Explanation

None

Cost Notes

(U) Operating and Support Variance with Prior Estimate

(CY\$M) Base Year: 2022	Estimate	
Prior Estimate (8/17/2020)	409.6	
Current Estimate	762.5	
Category		
	Variance	Explanation
Unit-Level Manpower	0.0	
Unit Operations	0.0	
Maintenance	-12.1	
Sustaining Support	111.2	
Continuing System Improvements	253.8	
Other	0.0	

(CY\$M) Base Year: 2022	Estimate	
Not Categorized	0.0	

(U) Operating and Support Cost Element Structure Estimates by Acquired System

(CY\$M) Base Year: 2022							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
JAGM	-	-	116.1	360.8	285.5	-	762.5
Program	-	-	116.1	360.8	285.5	-	762.5

(U) Annual Operating and Support Costs per Unit Compared with Antecedent System

No Data

(U) Operating and Support Cost Estimate Assumptions

No Data

Additional O&S Estimate Assumptions

None

Antecedent Estimate Assumptions

None

O&S Annual Cost Calculation Memo

None

(U) Technologies and Systems Engineering

Additional information for this section is provided in the classified annex to this submission.

(U) Current Significant Technical Risks and Risks Identified at Milestones/Decisions

None

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
AGMS Engineering Services	W31P4Q-23-C-0035	Lockheed Martin Corporation	Production
AGMS FY22-25 Full Rate Production Contract	W31P4Q-23-C-0005	Lockheed Martin Corporation	Production
HELLFIRE Buy 17 FY18-FY21 Production Contract	W31P4Q-18-C-0130	Lockheed Martin Corporation	Production

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: W31P4Q-23-C-0035 **Order Number:** -
Contract Title: AGMS Engineering Services **Strategy:** FAR 15: Negotiated Contracts
CAGE: 04939 - Lockheed Martin Corporation **Contracting Office:** ACC Redstone
City, State/Province: Orlando, FL

Effort Number: - **Supported Phase:** Production
Type: Multiple Types **Award Date:** August 1, 2023
Latest Modification Date: - **Definitization Date:** August 1, 2023
Latest Modification No.: - **Work Start Date:** August 1, 2023
Technical Data Rights: Government Purpose License Rights
Notes: Contract Type(s): CPFF/FFP
 Technical Data Rights are a mix and consist of the following: Government Purpose License Rights to Technical Data–Noncommercial Items & Software, Limited Rights to Technical Data–Non-Commercial Items Only, Restricted Rights to Technical Data–Noncommercial Software Only, Unlimited Rights to Technical Data–Noncommercial Items & Software
 EVM is waived, per DASM memo dated October 13 2021

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
0.6 373.1	5.3 373.1	- -	-	-	-

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: W31P4Q-23-C-0005 **Order Number:** -
Contract Title: AGMS FY22-25 Full Rate Production Contract **Strategy:** FAR 15: Negotiated Contracts

CAGE: 04939 - Lockheed Martin Corporation
Contracting Office: ACC Redstone
City, State/Province: Orlando, FL
Effort Number: -
Supported Phase: Production
Type: Multiple Types
Award Date: March 30, 2023
Latest Modification Date: -
Definitization Date: March 30, 2023
Latest Modification No.: -
Work Start Date: March 30, 2023
Technical Data Rights: Government Purpose License Rights

Notes: Contract Type(s): FFP/FPIF/CPFF. Contract is a combined JAGM and HELLFIRE missile contract. Quantity is JAGM only, but funding is combined JAGM HELLFIRE. Contract type is broken out as follows: FPIF Missile CLINs, FFP Container CLINs, Obsolescence/ Last Time Buy (LTB) CLINs (if applicable) CPFF Tired Tooling CLINs
 JAGM EVM Waiver was approved on 19 Aug 2019.
 Technical Data Rights are a mix and consist of the following: Government purpose License Rights to Technical Data--Noncommercial Items & Software, Limited Rights to Technical Data--Noncommercial Items Only, Restricted Rights to Technical Data--Noncommercial Software Only, Unlimited Rights to Technical Data--Noncommercial Items & Software

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
1,086.6 1,127.9	1,528.9 1,646.5	- -	623	1,599	-

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: W31P4Q-18-C-0130
Order Number: -
Contract Title: HELLFIRE Buy 17 FY18-FY21 Production Contract
Strategy: FAR 15: Negotiated Contracts
CAGE: 04939 - Lockheed Martin Corporation
Contracting Office: ACC Redstone
City, State/Province: Orlando, FL
Effort Number: -
Supported Phase: Production
Type: Multiple Types
Award Date: September 29, 2018
Latest Modification Date: October 17, 2023
Definitization Date: September 29, 2018
Latest Modification No.: P00143
Work Start Date: October 1, 2018
Technical Data Rights: Government Purpose License Rights
Notes: Contract Type(s):FFP/FPIF/CPFF. Contract is a combined JAGM and HELLFIRE missile contract. Quantity is JAGM only, but funding is combined JAGM HELLFIRE. Contract type is broken out as follows: FPIF Missile CLINs FFP Container CLINs, Obsolescence/ Last Time Buy (LTB) CLINs (if applicable) CPFF Tired Tooling CLINs
 JAGM EVM Waiver was approved on 19 Aug 2019.
 Technical Data Rights are a mix and consist of the following: Government Purpose License Rights to Technical Data--Noncommercial Items & Software, Limited Rights to Technical Data--Non-Commercial Items Only, Restricted Rights to Technical Data--Noncommercial Software Only, Unlimited Rights to Technical Data--Noncommercial Items & Software

Initial Price (TY\$M) Target / Ceiling		Current Price (TY\$M) Target / Ceiling		Estimate at Completion (TY\$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
537.1	665.2	3,165.3	4,157.3	-	-	1,896	1,896	565

(U) Production**(U) Low-Rate Initial Production**

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	2,631	5,631
Date	7/29/2015	8/17/2020
Reference	JAGM Milestone B ADM	JAGM Additional LRIP Authorization ADM
LRIP Period	FY 2017 - 2018	FY 2017 - 2021
Total Procurement Quantity	26,319	26,319
LRIP Percentage of Total	10.0%	21.4%

Rationale if LRIP Quantity Exceeds 10% of Total Procurement Quantity (Current Determination)

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 post Milestone C JAGM Additional LRIP Authorization ADM, in order to support Service and the FMS requirements until a FRP decision in FY 2022. FRP decision was received September 2022.

LRIP Notes

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

(U) Deliveries and Expenditures

(U) Acquisition Funding

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	46	17	37.0%
Appropriations (TY, \$M)	9,429.9	9,541.1	101.2%
Expenditures (TY, \$M)	9,429.9	2,582.0	27.4%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Development	118			
JAGM		118	118	
Procurement	26,021			
JAGM		3,046	2,818	
Total	26,139	3,164	2,936	11.2%

Notes

None

(U) International Program Aspects

General Memo

The JAGM Defense Exportability Features (DEF) Pilot Program completed July 31, 2018. The program received approval to export JAGM to the United Kingdom (UK) on February 7, 2019. France, Israel, Singapore, and UAE submitted Letters of Request (LOR) for Price and Availability (P&A). P&A data provided to France, Netherlands, Poland, UAE, and UK. The UK has submitted LOR for Letter of Offer and Acceptance (LOA) for a quantity of 460 JAGM missiles. Poland has submitted LOR for LOA requesting 460 JAGM missiles and the Netherlands has submitted LOR for LOA requesting 296 JAGM missiles. Korea submitted LOR for LOA (KS-B-ZJR) including up to 656 JAGM missiles as part of a new Apache buy.

Exportability and Business Issues

Currently no issues with current anticipated customers.

Is design for international exportability planned? Yes Industry/Partner Exportability Cost-Sharing? No

Program Protection: Technology Security and Foreign Disclosure Issues

Currently no issues with current anticipated customers.

(U) Agreements

Activity Date	Type	Agreement Number	International Partner(s)	Quantity	Funding (TY\$M)
8/19/2019	FMS LOA	UK-B-WTX	United Kingdom (UK)	1	0.2

(U) Agreement Information

Partner(s): United Kingdom (UK) Activity Date: 8/19/2019
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: UK-B-WTX
 Notes: None

United Kingdom (UK)			
Fiscal Year	Funding (TY\$M)	Quantity	
2019	0.2	1	
Total	0.2	1	



UNCLASSIFIED

Modernized Selected Acquisition Report Supplement

Joint Air-to-Ground Missile (JAGM)

FY 2025 President's Budget
Effective: December 31, 2023

UNCLASSIFIED

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

Program Description

Full Name

Joint Air-to-Ground Missile

Short Name

JAGM

PNO

355

Lead Component

Army

AAF Pathway

MCA

Acquisition Type

MDAP

Acquired Systems

JAGM

Related Programs

Full Name	PNO	Pathway	Type	ACAT/ BCAT	Acquisition Status	Costs in SAR?	
						Acq	O&S
AGM 114 Hellfire Air-to-Ground Missile	108	MCA	MDAP		FOC/FD	No	No

Program Use of the Adaptive Acquisition Framework

This acquisition is accomplished by a single program in the Major Capability Acquisition Pathway. JAGM is the follow-on missile due to Laser HELLFIRE limitations.

Technologies and Systems Engineering

Joint Air-to-Ground Missile

Major Software Efforts

Title	Status	Fielding Date	Description
None			

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts
None			

Funding Sources (Acquisition)

Acquisition Funding Notes

Joint Air-to-Ground Missile

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
Procurement	2032A	02	2605C70302 - Joint Air-to-Ground MSLS (JAGM)	0311100A	-		
RDT&E	2040A	05	0605450A - Joint Air-to-Ground Missile (JAGM)	0605450A	JA6 - Joint Air-To-Ground Missile (JAGM)		
O&M	2020A	04	435 - Other Service Support	0702806A	-	x	

Note: This is PEO MS Acq. O&M for core/TDA SEPM

Funding Sources (Operating and Support)

Note: Budget lines fund activities executed by the Program Office or Sustainment Office.

Operating and Support Funding Notes

Joint Air-to-Ground Missile

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	2020A	04	422 - Central Supply Activities	0701123A	-		

Acquisition Estimate and Quantity Summary

Joint Air-to-Ground Missile

Acquisition Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2022 (\$M)	CY2015 (\$M)	CY2024 (\$M)
RDT&E		1,005.6	1,219.5	1,019.2	1,308.8
Procurement		8,339.7	6,297.4	5,262.7	6,758.3
MILCON		-	-	-	-
O&M		84.6	62.7	52.4	67.3
Total Acquisition		9,429.8	7,579.7	6,334.3	8,134.4
PAUC		0.361	0.290	0.242	0.311
APUC		0.320	0.242	0.202	0.260

Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
JAGM		118	26,021
Total		118	26,021

Unit Description

A unit is one Joint Air-to-Ground Missile.

Current and Future Years Defense Program Summary, TY(\$M)

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	997.1	3.4	3.4	0.4	0.4	0.4	0.4	-	1,005.6
Procurement	1,622.1	381.8	126.9	268.8	256.5	270.0	277.4	5,136.2	8,339.7
MILCON	-	-	-	-	-	-	-	-	-
O&M	13.2	2.5	2.4	2.5	2.5	2.4	2.4	56.6	84.6
PB 2025 Total	2,632.4	387.7	132.7	271.7	259.4	272.7	280.3	5,192.8	9,429.8

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Joint Air-to-Ground Missile

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2040A - Research, Development, Test & Eval, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total		739.3	739.3	-	897.5
2008		51.673	51.7	0.765097	67.5
2009		114.817	114.8	0.774874	148.2
2010		118.900	118.9	0.786597	151.2
2011		66.400	66.4	0.802061	82.8
2012		86.796	86.8	0.814697	106.5
2013		11.623	11.6	0.828550	14.0
2014		15.684	15.7	0.844512	18.6
2015		80.585	80.6	0.858691	93.8
2016		79.897	79.9	0.867814	92.1
2017		47.446	47.4	0.886286	53.5
2018		28.520	28.5	0.902324	31.6
2019		12.440	12.4	0.917153	13.6
2020		6.314	6.3	0.946807	6.7
2021		7.292	7.3	0.986642	7.4
2022		2.467	2.5	1.032146	2.4
2023		2.366	2.4	1.072972	2.2
2024		3.014	3.0	1.098387	2.7
2025		3.030	3.0	1.121874	2.7

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Joint Air-to-Ground Missile

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

1319N - Research, Development, Test & Eval, Navy					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total		266.3	266.3	-	322.0
2008		11.602	11.6	0.763211	15.2
2009		51.068	51.1	0.773011	66.1
2010		57.797	57.8	0.784606	73.7
2011		42.036	42.0	0.803340	52.3
2012		1.284	1.3	0.816663	1.6
2013			-	0.825238	-
2014		4.659	4.7	0.836899	5.6
2015		5.905	5.9	0.847429	7.0
2016		23.596	23.6	0.863157	27.3
2017		17.711	17.7	0.879307	20.1
2018		14.045	14.0	0.900845	15.6
2019		6.379	6.4	0.918196	6.9
2020		14.743	14.7	0.951961	15.5
2021		12.664	12.7	0.994746	12.7
2022			-	1.046714	-
2023		0.364	0.4	1.077876	0.3
2024		0.384	0.4	1.102481	0.3
2025		0.393	0.4	1.125868	0.3
2026		0.403	0.4	1.149511	0.4
2027		0.410	0.4	1.173651	0.3
2028		0.418	0.4	1.198297	0.3
2029		0.427	0.4	1.223462	0.3

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Joint Air-to-Ground Missile

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2032A - Missile Procurement, Army									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total	6,696.7	-	-	-	-	-	6,696.7	-	4,972.0
2008							-	0.772130	-
2009							-	0.781852	-
2010							-	0.795403	-
2011							-	0.809461	-
2012							-	0.821335	-
2013							-	0.839028	-
2014							-	0.847131	-
2015							-	0.859496	-
2016	27.600						27.6	0.876339	31.5
2017	98.600						98.6	0.894248	110.3
2018	186.900						186.9	0.914046	204.5
2019	255.500						255.5	0.941981	271.2
2020	199.300						199.3	0.982266	202.9
2021	196.500						196.5	1.035716	189.7
2022	147.200						147.2	1.071554	137.4
2023	216.030						216.0	1.098275	196.7
2024	303.409						303.4	1.122133	270.4
2025	47.582						47.6	1.145768	41.5
2026	192.134						192.1	1.169829	164.2
2027	176.011						176.0	1.194396	147.4
2028	181.864						181.9	1.219478	149.1
2029	183.683						183.7	1.245087	147.5
2030	172.700						172.7	1.271234	135.9
2031	166.000						166.0	1.297930	127.9
2032	165.900						165.9	1.325186	125.2
2033	162.500						162.5	1.353015	120.1
2034	161.600						161.6	1.381429	117.0
2035	169.700						169.7	1.410439	120.3
2036	170.300						170.3	1.440058	118.3
2037	167.500						167.5	1.470299	113.9
2038	175.100						175.1	1.501175	116.6
2039	201.000						201.0	1.532700	131.1
2040	217.600						217.6	1.564887	139.1
2041	225.700						225.7	1.597749	141.3
2042	226.300						226.3	1.631302	138.7
2043	227.200						227.2	1.665559	136.4
2044	236.600						236.6	1.700536	139.1

Joint Air-to-Ground Missile

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2032A - Missile Procurement, Army									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
2045	238.300						238.3	1.736247	137.3
2046	239.900						239.9	1.772708	135.3
2047	249.800						249.8	1.809935	138.0
2048	251.700						251.7	1.847944	136.2
2049	228.400						228.4	1.886751	121.1
2050	175.500						175.5	1.926373	91.1
2051	41.950						42.0	1.966826	21.3
2052	9.700						9.7	2.008130	4.8
2053	3.400						3.4	2.050300	1.7

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Joint Air-to-Ground Missile

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

1507N - Weapons Procurement, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total	1,643.0	-	-	-	-	-	1,643.0	-	1,325.4
2008							-	0.771133	-
2009							-	0.782212	-
2010							-	0.795569	-
2011							-	0.810797	-
2012							-	0.823002	-
2013							-	0.834697	-
2014							-	0.846316	-
2015							-	0.860122	-
2016							-	0.876280	-
2017	21.200						21.2	0.895254	23.7
2018	3.600						3.6	0.919840	3.9
2019	23.900						23.9	0.946847	25.2
2020	73.300						73.3	0.984408	74.5
2021	39.500						39.5	1.029328	38.4
2022	46.700						46.7	1.069529	43.7
2023	86.300						86.3	1.097188	78.7
2024	78.395						78.4	1.121276	69.9
2025	79.292						79.3	1.144940	69.3
2026	76.677						76.7	1.168984	65.6
2027	80.463						80.5	1.193533	67.4
2028	88.095						88.1	1.218597	72.3
2029	93.759						93.8	1.244187	75.4
2030	91.363						91.4	1.270315	71.9
2031	91.700						91.7	1.296992	70.7
2032	93.600						93.6	1.324229	70.7
2033	95.600						95.6	1.352037	70.7
2034	97.500						97.5	1.380430	70.6
2035	99.400						99.4	1.409419	70.5
2036	93.390						93.4	1.439017	64.9
2037	97.390						97.4	1.469236	66.3
2038	91.890						91.9	1.500090	61.3

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Joint Air-to-Ground Missile

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2020A - Operation & Maintenance, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total		84.6	84.6	-	62.7
2008			-	0.764919	-
2009			-	0.772696	-
2010			-	0.783951	-
2011			-	0.800979	-
2012			-	0.812428	-
2013			-	0.823648	-
2014			-	0.836644	-
2015			-	0.845001	-
2016			-	0.860123	-
2017			-	0.874607	-
2018			-	0.892139	-
2019		2.021	2.0	0.912436	2.2
2020		2.849	2.8	0.937424	3.0
2021		3.150	3.2	0.983279	3.2
2022		2.543	2.5	1.031990	2.5
2023		2.650	2.7	1.069149	2.5
2024		2.542	2.5	1.094381	2.3
2025		2.411	2.4	1.117750	2.2
2026		2.462	2.5	1.141222	2.2
2027		2.515	2.5	1.165188	2.2
2028		2.371	2.4	1.189657	2.0
2029		2.422	2.4	1.214640	2.0
2030		2.473	2.5	1.240147	2.0
2031		2.526	2.5	1.266190	2.0
2032		2.580	2.6	1.292780	2.0
2033		2.415	2.4	1.319929	1.8
2034		2.467	2.5	1.347647	1.8
2035		2.520	2.5	1.375948	1.8
2036		2.573	2.6	1.404843	1.8
2037		2.628	2.6	1.434344	1.8
2038		2.440	2.4	1.464466	1.7
2039		2.243	2.2	1.495219	1.5
2040		2.291	2.3	1.526619	1.5
2041		2.080	2.1	1.558678	1.3
2042		2.124	2.1	1.591410	1.3
2043		2.169	2.2	1.624830	1.3
2044		2.216	2.2	1.658951	1.3

Joint Air-to-Ground Missile

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2020A - Operation & Maintenance, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
2045		2.263	2.3	1.693789	1.3
2046		2.311	2.3	1.729359	1.3
2047		2.361	2.4	1.765675	1.3
2048		2.411	2.4	1.802754	1.3
2049		2.462	2.5	1.840612	1.3
2050		2.515	2.5	1.879265	1.3
2051		2.247	2.2	1.918730	1.2
2052		2.295	2.3	1.959023	1.2
2053		2.009	2.0	2.000162	1.0

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Joint Air-to-Ground Missile

2040A - Research, Development, Test & Eval, Army				
fiscal year	JAGM			Total
Total	118			118
Undistributed				-
2016	118			118

Acquired System Annual End-Item Quantities by Appropriation Account
(Aligned to Budget Position: PB 2025)

Joint Air-to-Ground Missile

2032A - Missile Procurement, Army				
fiscal year	JAGM			Total
Total	20,005			20,005
Undistributed				-
2016				-
2017	373			373
2018	899			899
2019	750			750
2020	701			701
2021	662			662
2022	490			490
2023	629			629
2024	910			910
2025	23			23
2026	661			661
2027	562			562
2028	578			578
2029	593			593
2030	600			600
2031	600			600
2032	600			600
2033	600			600
2034	600			600
2035	600			600
2036	600			600
2037	600			600
2038	600			600
2039	600			600
2040	600			600
2041	600			600
2042	600			600
2043	600			600
2044	600			600
2045	600			600
2046	600			600
2047	600			600
2048	600			600
2049	516			516

Joint Air-to-Ground Missile

2032A - Missile Procurement, Army				
fiscal year	JAGM			Total
2050	258			258

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Joint Air-to-Ground Missile

1507N - Weapons Procurement, Navy				
fiscal year	JAGM			Total
Total	6,016			6,016
Undistributed				-
2016				-
2017				-
2018	104			104
2019	75			75
2020	322			322
2021	144			144
2022	153			153
2023	300			300
2024	252			252
2025	273			273
2026	362			362
2027	377			377
2028	389			389
2029	373			373
2030	345			345
2031	346			346
2032	336			336
2033	351			351
2034	354			354
2035	343			343
2036	262			262
2037	282			282
2038	273			273

Nuclear Costs

Joint Air-to-Ground Missile

Program's Use of Department of Energy Resources

No data for 2023 MSAR

Operational Fielding Plan

Joint Air-to-Ground Missile

System: JAGM

Fielding and Inventory Notes

No data for 2023 MSAR

JAGM Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					
2024					-
2025					-
2026					-
2027					-
2028					-
2029					-

O&S Independent Cost Estimate

Joint Air-to-Ground Missile

Independent and Current Cost Estimate Comparison

Category	CY2022 (\$M)	Independent Cost Estimate 8/24/2022	Current Estimate 8/24/2022	Variance with ICE (%)
Unit-Level Manpower				-
Unit Operations				-
Maintenance		116.1	116.1	0%
Sustaining Support		360.8	360.8	0%
Continued System Improvements		285.5	285.5	0%
Other				-
Total O&S		762.4	762.4	0%

Independent Cost Estimate Source

Event: FRP JCP
 Type: Component Cost Position
 Approved by: OSD Cost Assessment & Program Evaluation, August 24, 2022
 Note: Disposal Cost is not included in the Operating and Support Cost of the current APB for this program.

Current Cost Estimate Source

Type: Joint Cost Position
 Approved by: OSD Cost Assessment & Program Evaluation, August 24, 2022

Cost Estimate Variance Explanation

Annual Operating and Support Estimates by Cost Element

Joint Air-to-Ground Missile

System: JAGM

Source for TY-CY Conversion:

Operating and Support Cost Elements							
fiscal year	1.0 Unit-Level Manpower	2.0 Unit Operations	3.0 Maintenance	4.0 Sustaining Support	5.0 Continuing System Improvements	Other	Total CY2022 (\$M)
Total	-	-	-	-	-	-	-